

DLI LPC9 Object Model Reference

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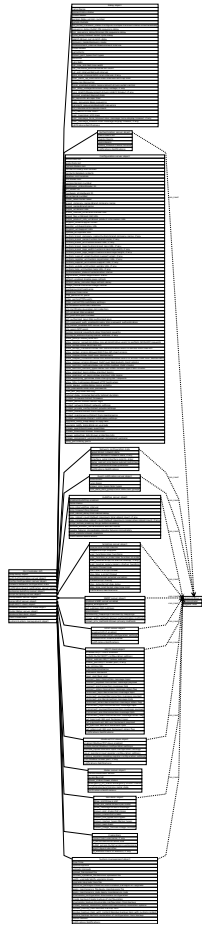
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1 DLI Controller API

object	
The set of objects that comprise the controller's API	



This is an automatically generated document describing the object model and containing samples interacting with it.

It is advised that you use the latest curl version to interact with the object model. In particular, some versions are known not to implement digest authentication correctly. Sample curl request path URI template arguments are string keys or 0-based integer indices of the entities involved. Template arguments need URL-encoding. Matrix URIs are supported.

The `uom` command-line utility is available in firmware versions 1.8.1.0 and above. Its sample request path shell variables are string keys or 0-based integer indices of the entities involved. Strings might need URL-encoding if they contain a slash (/) or a percent sign (%).

The Python requests module samples assume the following preamble:

```
from __future__ import print_function
import requests
from requests.auth import HTTPDigestAuth
headers = {'accept': 'application/json', 'content-type': 'application/json', '↔
↔ prefer': 'return=minimal', 'x-csrf': 'x'}
auth = HTTPDigestAuth('admin', '1234')
```

Python requests sample request path variables are string keys or 0-based integer indices of the entities involved. Template arguments need URL-encoding. Matrix URIs are supported.

The JavaScript request module samples assume that you require <https://github.com/request/request> or an API-compatible alternative like <https://github.com/postmanlabs/postman-request> and use the following preamble:


```
var request=require("request").defaults({baseUrl: "http://192.168.0.100/restapi"
↵ ↵ /", auth: {user: "admin", pass: "1234", sendImmediately: false}, json: true ↵
↵ , headers: {"X-CSRF": "x", "Prefer": "return=minimal" }});
```

Alternately you can supply the defaults enumerated on each request.JavaScript request sample path variables are string keys or 0-based integer indices of the entities involved. Template arguments need URL-encoding. Matrix URIs are supported.

The Lua uom module is available in firmware versions 1.8.1.0 and above.Lua uom module samples assume the following preamble:

```
local uom=require("uom")
local null=uom.null
```

Lua uom module sample request path variables are string keys or 1-based integer indices of the entities involved.

This object contains the following items:

relay	Relay object
auth	Authentication server object
config	Configuration server object
network	Network configuration data
notification	Event notification server object
autoping	AutoPing server object
script	Scripting server object
snmp	SNMP server object
upnp	UPnP server object
mqtt	MQTT client object
modbus	Modbus/TCP slave object
meter	Meter server object
renderer	Renderer object
cred	Credentials
system	System management object

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/',auth=auth,headers=headers).
↵ ↵ json())
```

⇒

<...>

Sample JS request read command:

```
request.get({url:""},function(error,response,body) {console.log(body)});
```

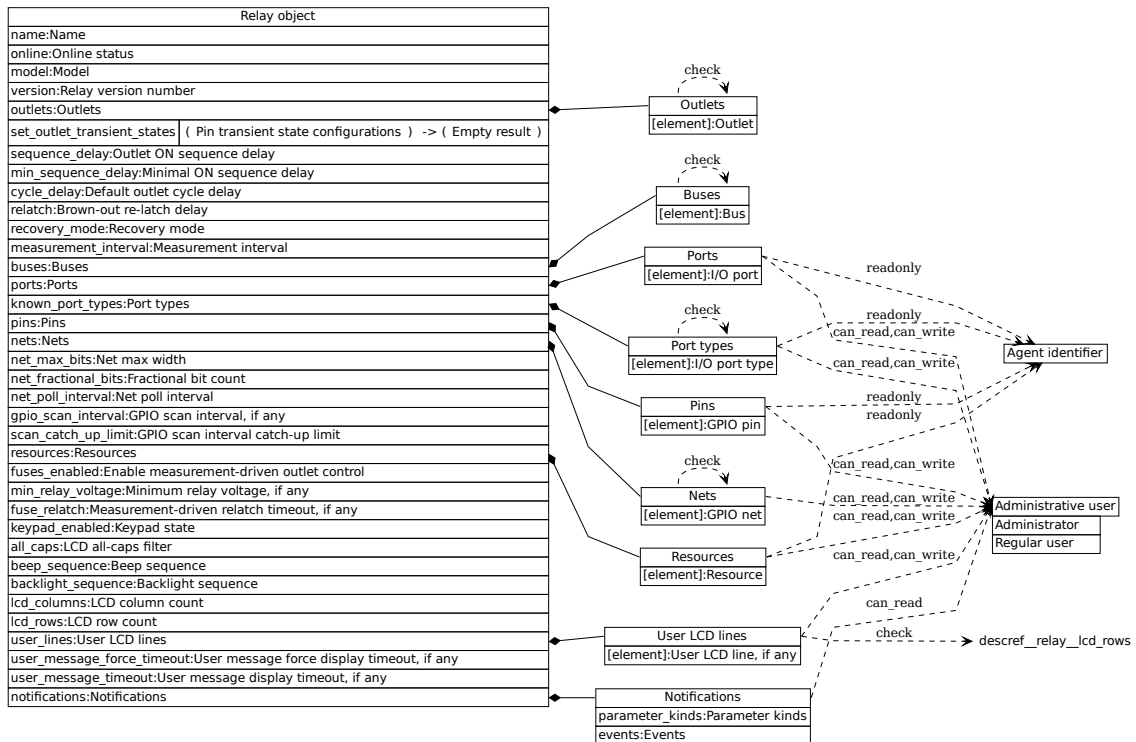
⇒

<...>

[Browse more samples](#)

2 Relay object

object	relay/
Object representing relay state and configuration	



This object contains the following items:

name	Name
online	Online status
model	Model
version	Relay version number
outlets	Outlets
set_outlet_transient_states	Configure multiple transient states simultaneously
sequence_delay	Outlet ON sequence delay
min_sequence_delay	Minimal ON sequence delay
cycle_delay	Default outlet cycle delay
relatch	Brown-out re-latch delay
recovery_mode	Recovery mode
measurement_interval	Measurement interval
buses	Buses
ports	Ports
known_port_types	Port types
pins	Pins
nets	Nets
net_max_bits	Net max width
net_fractional_bits	Fractional bit count
net_poll_interval	Net poll interval

gpio_scan_interval	GPIO scan interval, if any
scan_catch_up_limit	GPIO scan interval catch-up limit
resources	Resources
fuses_enabled	Enable measurement-driven outlet control
min_relay_voltage	Minimum relay voltage, if any
fuse_relatch	Measurement-driven relatch timeout, if any
keypad_enabled	Keypad state
all_caps	LCD all-caps filter
beep_sequence	Beep sequence
backlight_sequence	Backlight sequence
lcd_columns	LCD column count
lcd_rows	LCD row count
user_lines	User LCD lines
user_message_force_timeout	User message force display timeout, if any
user_message_timeout	User message display timeout, if any
notifications	Notifications

Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "... "http ↵
↵ ://192.168.0.100/restapi/relay/"
```

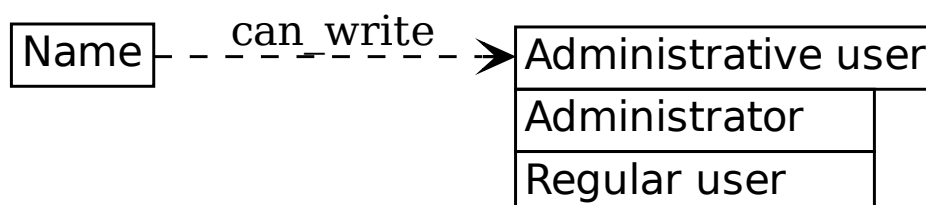
Sample uom library write command:

```
uom.relay=<...>
```

[Browse more samples](#)

2.1 Name

string	relay/name/
User-visible relay name	



Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample CLI write command:

```
uom set "relay/name" "\"My controller\""
```

Sample CLI read command:

```
uom get "relay/name"
```

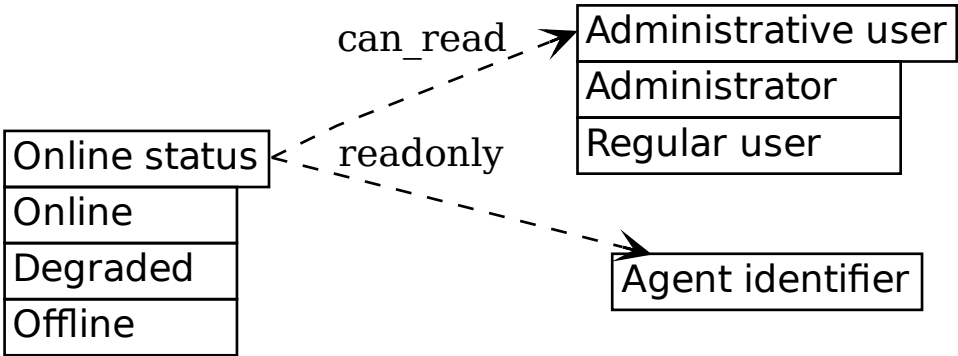
⇒

```
"My controller"
```

[Browse more samples](#)

2.2 Online status

sum (variant)	relay/online/
Relay module online status	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification if [agent identifier](#) is not equal to relay.

This sum can assume the following values:

constant true	Online	The relay module is online and fully operational, outlets can be switched on unless emergency
constant "degraded"	Degraded	The relay module is online but outlets cannot be switched on due to low-power conditions
constant false	Offline	The relay module is offline, outlets cannot be switched on

Sample CLI read command:

```
uom get "relay/online"
```

⇒

```
true
```

Sample uom library read command:

```
print(uom.dump(uom.relay.online))
```

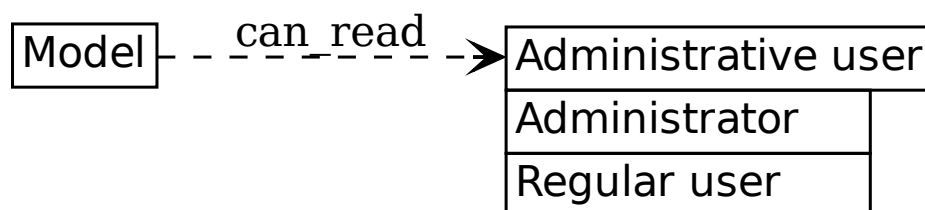
⇒

```
true
```

[Browse more samples](#)

2.3 Model

string	relay/model/
Relay model name	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/relay/model/', auth=auth, headers= ↵
↵ headers).json())
```

⇒

```
'LPC9'
```

Sample CLI read command:

```
uom get "relay/model"
```

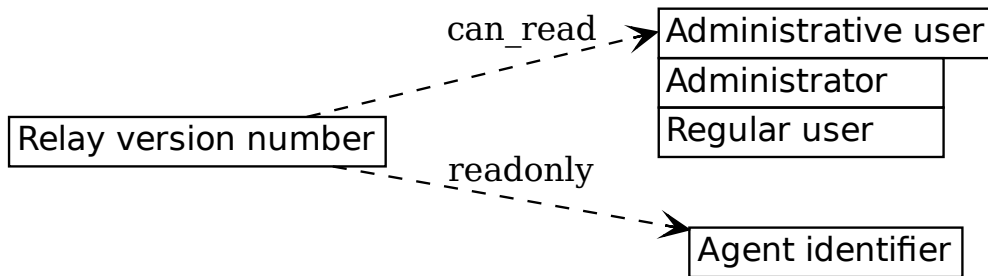
⇒

```
"LPC9"
```

[Browse more samples](#)

2.4 Relay version number

string	relay/version/
Relay core firmware version number	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification if [agent identifier](#) is not equal to relay.

Sample CLI read command:

```
uom get "relay/version"
```

⇒

```
"1.8.1.0"
```

Sample uom library read command:

```
print(uom.dump(uom.relay.version))
```

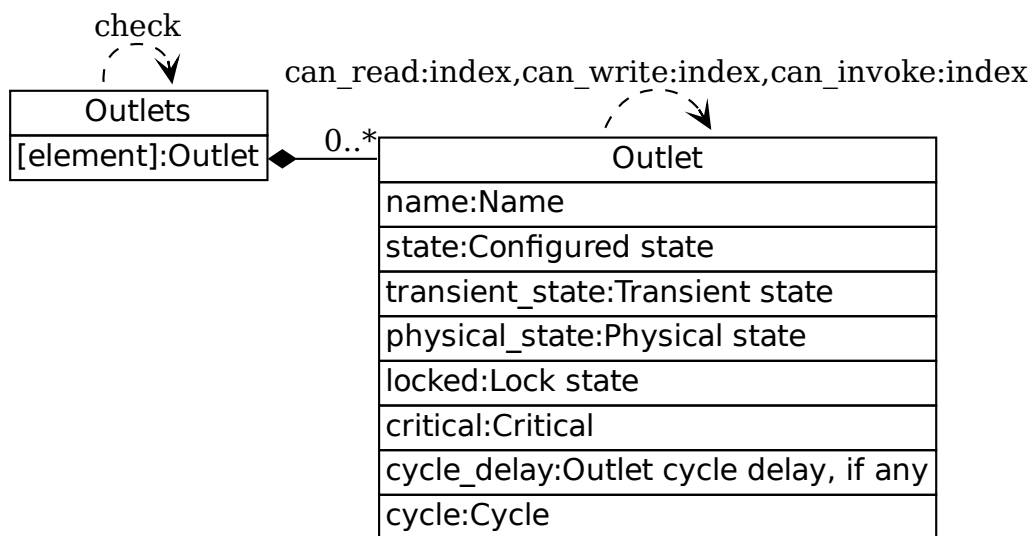
⇒

```
"1.8.1.0"
```

[Browse more samples](#)

2.5 Outlets

array	relay/outlets/
Outlets controlled by the relay	



This array does not support direct modification.

This array represents a value in persistent storage.

This array contains [Outlet](#) elements.

Creating elements in this collection is not supported.

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/relay/outlets/', auth=auth, ↵
↵ headers=headers).json())
```

⇒

<...>

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/outlets/"
```

⇒

...

[Browse more samples](#)

2.5.1 Outlet

object	relay/outlets/N/
Object representing outlet state and configuration	

This object contains the following items:

name	Name
state	Configured state
transient_state	Transient state
physical_state	Physical state
locked	Lock state
critical	Critical
cycle_delay	Outlet cycle delay, if any
cycle	Cycle

Sample JS request read command (note that `_outlet_index` is a variable):

```
request.get({url:"relay/outlets/"+_outlet_index.toString()+"/"},function(error, ↵
    ↵ response,body) {console.log(body)});
```

⇒

```
{ "state":true,"critical":false,"cycle_delay":2,"locked":true,"transient_state": ↵
    ↵ true,"physical_state":false,"name":"outlet #3" }
```

Sample curl write command (note that `:outlet_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
    ↵ json" -H "Accept: application/json" --data-binary '{"state\":false,\ " ↵
    ↵ critical\":false,\ "cycle_delay\":2,\ "locked\":true,\ "transient_state\": ↵
    ↵ false,\ "physical_state\":true,\ "name\":"WiFi AP\ "' "http://192.168.0.100/ ↵
    ↵ restapi/relay/outlets/:outlet_index/"
```

[Browse more samples](#)

See also [Outlet: Name](#)

See also [Outlet: Configured state](#)

See also [Outlet: Transient state](#)

See also [Outlet: Physical state](#)

See also [Outlet: Lock state](#)

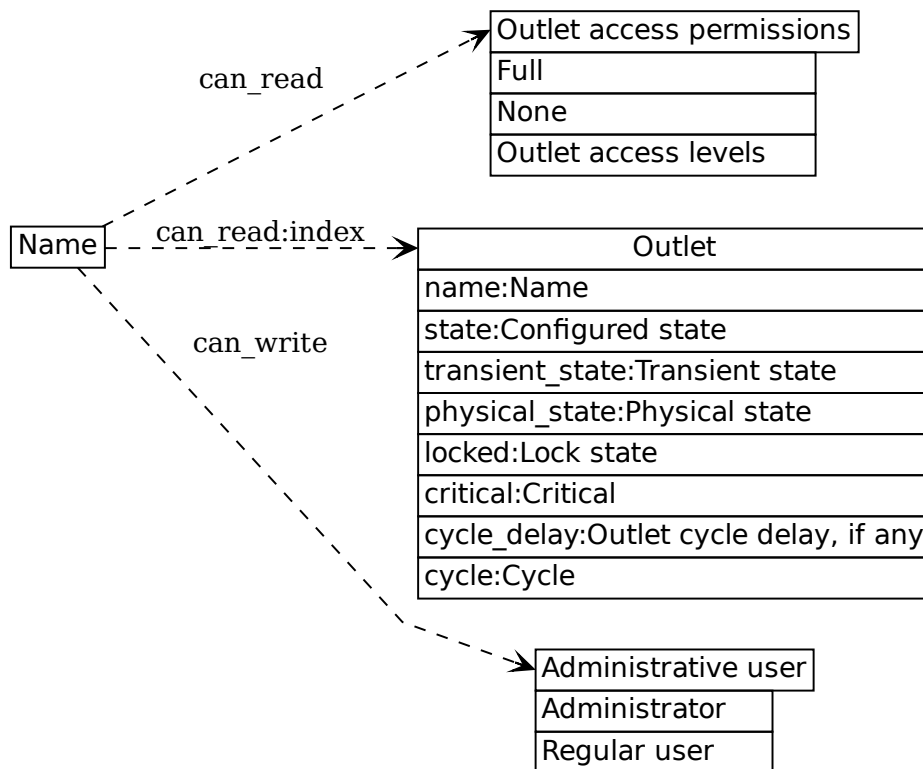
See also [Outlet: Critical](#)

See also [Outlet: Outlet cycle delay, if any](#)

See also [Outlet: Cycle](#)

2.6 Outlet: Name

string	relay/outlets/N/name/
User-visible outlet name	



Retrieving the value is denied if any of the following is true:

- `outlet access permissions` is equal to `false`
- all of the following is true:
 - `outlet access permissions` is not equal to `true`
 - not `outlet access permissions[index of outlet]`

Changing the value is denied if not `administrative user`

This string represents a value in persistent storage.

Sample CLI read command (note that `outlet_index` is a variable):

```
uom get "relay/outlets/${outlet_index}/name"
```

⇒

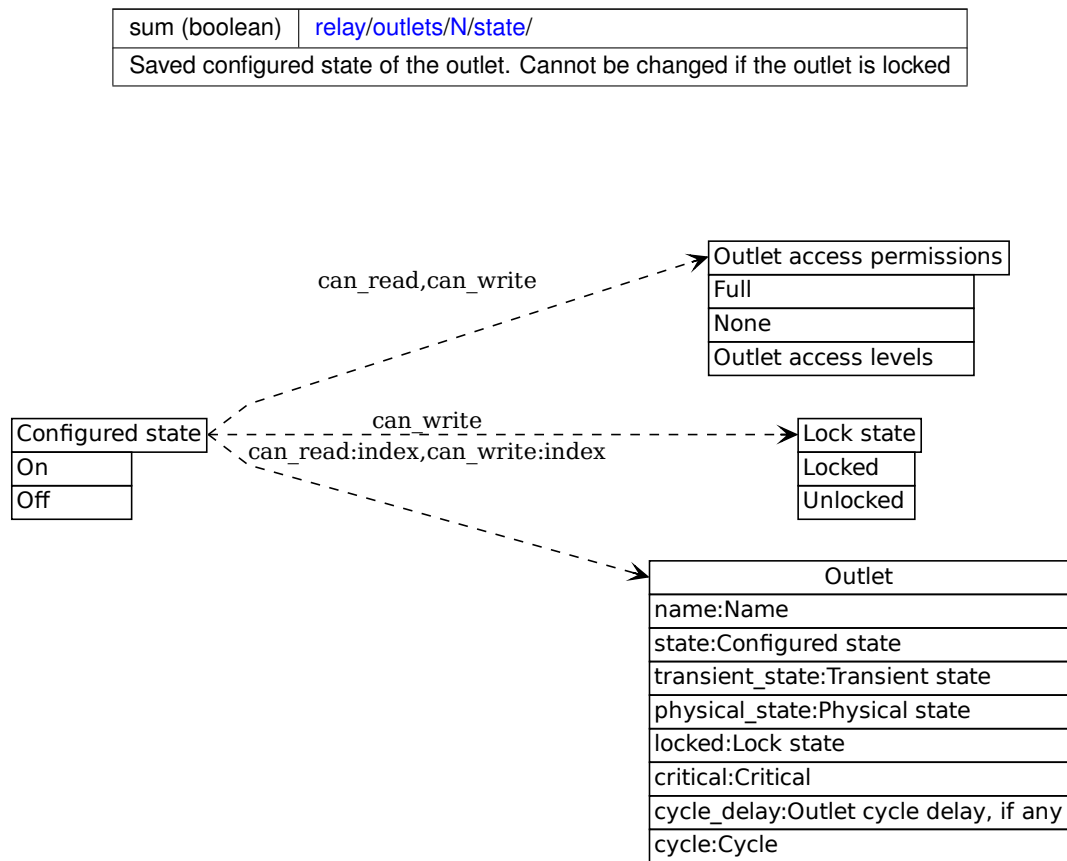
```
"Power grid"
```

Sample JS request write command (note that `_outlet_index` is a variable):

```
request.put({url:"relay/outlets/"+_outlet_index.toString()+"/name/",body:"Local ↔  
↔ alarm lights"});
```

[Browse more samples](#)

2.7 Outlet: Configured state



Retrieving the value is denied if any of the following is true:

- [outlet access permissions](#) is equal to `false`
- all of the following is true:
 - [outlet access permissions](#) is not equal to `true`
 - not [outlet access permissions](#)[index of outlet]

Changing the value is denied if any of the following is true:

- any of the following is true:
 - [outlet access permissions](#) is equal to `false`
 - all of the following is true:
 - * [outlet access permissions](#) is not equal to `true`
 - * not [outlet access permissions](#)[index of outlet]
- [lock state](#)

This sum represents a value in persistent storage.

Changes to this sum may have an effect besides setting value.

This sum can assume the following values:

constant true	On	The outlet is powered
constant false	Off	The outlet is not powered

Sample CLI read command (note that `outlet_index` is a variable):

```
uom get "relay/outlets/${outlet_index}/state"
```

⇒

```
false
```

Sample curl read command (note that `:outlet_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/outlets/:outlet_index/state/"
```

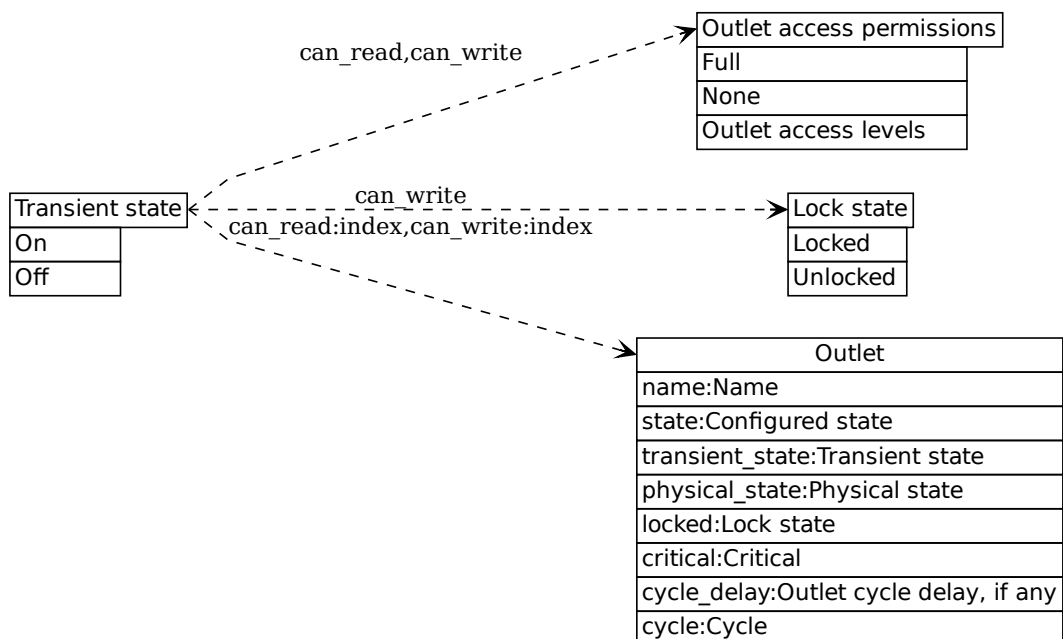
⇒

```
true
```

[Browse more samples](#)

2.8 Outlet: Transient state

sum (boolean)	relay/outlets/N/transient_state/
Current expected state of the outlet. Cannot be changed if the outlet is locked	



Retrieving the value is denied if any of the following is true:

- `outlet access permissions` is equal to `false`
- all of the following is true:
 - `outlet access permissions` is not equal to `true`
 - not `outlet access permissions[index of outlet]`

Changing the value is denied if any of the following is true:

- any of the following is true:
 - `outlet access permissions` is equal to `false`
 - all of the following is true:
 - * `outlet access permissions` is not equal to `true`
 - * not `outlet access permissions[index of outlet]`
- `lock state`

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant true	On	The outlet is powered
constant false	Off	The outlet is not powered

Sample `uom` library write command (note that `_outlet_index` is a variable):

```
uom.relay.outlets[_outlet_index].transient_state=true
```

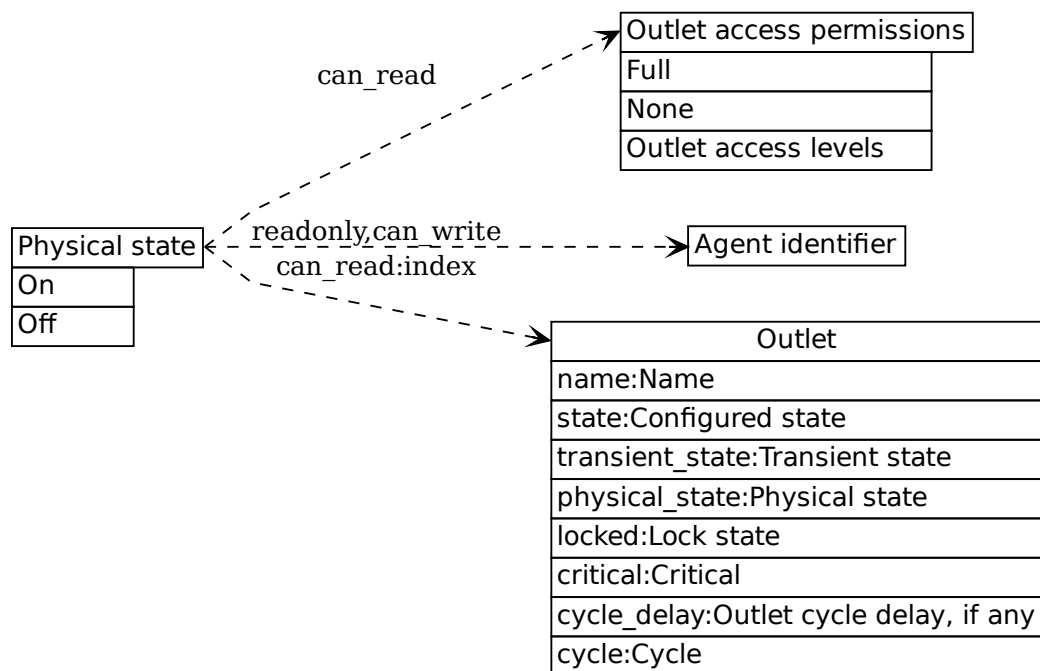
Sample `curl` write command (note that `:outlet_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "true" "http ↵
↵ ://192.168.0.100/restapi/relay/outlets/:outlet_index/transient_state/"
```

[Browse more samples](#)

2.9 Outlet: Physical state

sum (boolean)	relay/outlets/N/physical_state/
Current actual state of the outlet	



Retrieving the value is denied if any of the following is true:

- `outlet access permissions` is equal to `false`
- all of the following is true:
 - `outlet access permissions` is not equal to `true`
 - not `outlet access permissions[index of outlet]`

Changing the value is denied if `agent identifier` is not equal to `relay`

This sum does not support direct modification if `agent identifier` is not equal to `relay`.

This sum can assume the following values:

constant true	On	The outlet is powered
constant false	Off	The outlet is not powered

Sample `curl` read command (note that `:outlet_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/outlets/:outlet_index/physical_state/"
```

⇒

false

Sample JS request read command (note that `_outlet_index` is a variable):

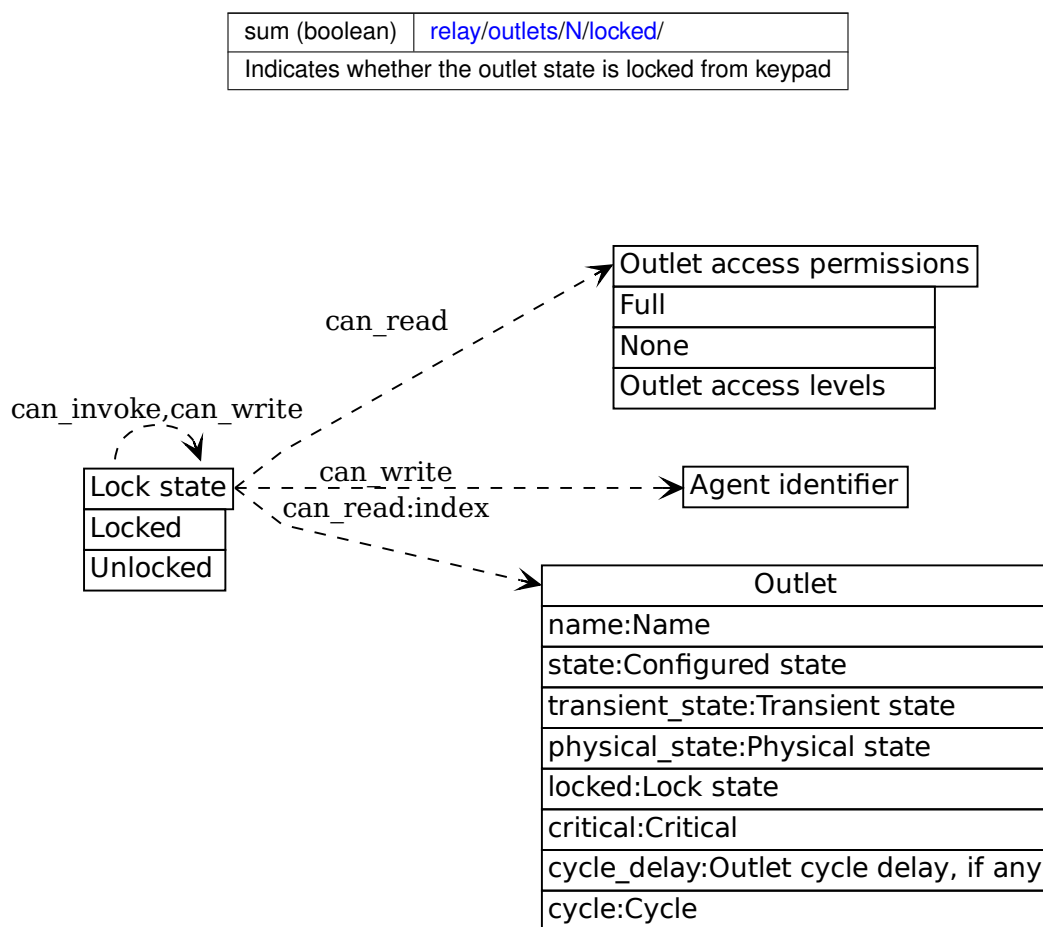
```
request.get({url:"relay/outlets/"+_outlet_index.toString()+"/physical_state/"}, ↵
  ↵ function(error,response,body) {console.log(body)});
```

⇒

true

[Browse more samples](#)

2.10 Outlet: Lock state



Retrieving the value is denied if any of the following is true:

- [outlet access permissions](#) is equal to `false`
- all of the following is true:
 - [outlet access permissions](#) is not equal to `true`
 - not [outlet access permissions](#)[index of outlet]

Changing the value is denied if [agent identifier](#) is not equal to relay

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Locked	The outlet state cannot be changed
constant false	Unlocked	The outlet state can be changed

Sample curl read command (note that :outlet_index is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵  
↵ restapi/relay/outlets/:outlet_index/locked/"
```

⇒

false

Sample uom library read command (note that _outlet_index is a variable):

```
print(uom.dump(uom.relay.outlets[_outlet_index].locked))
```

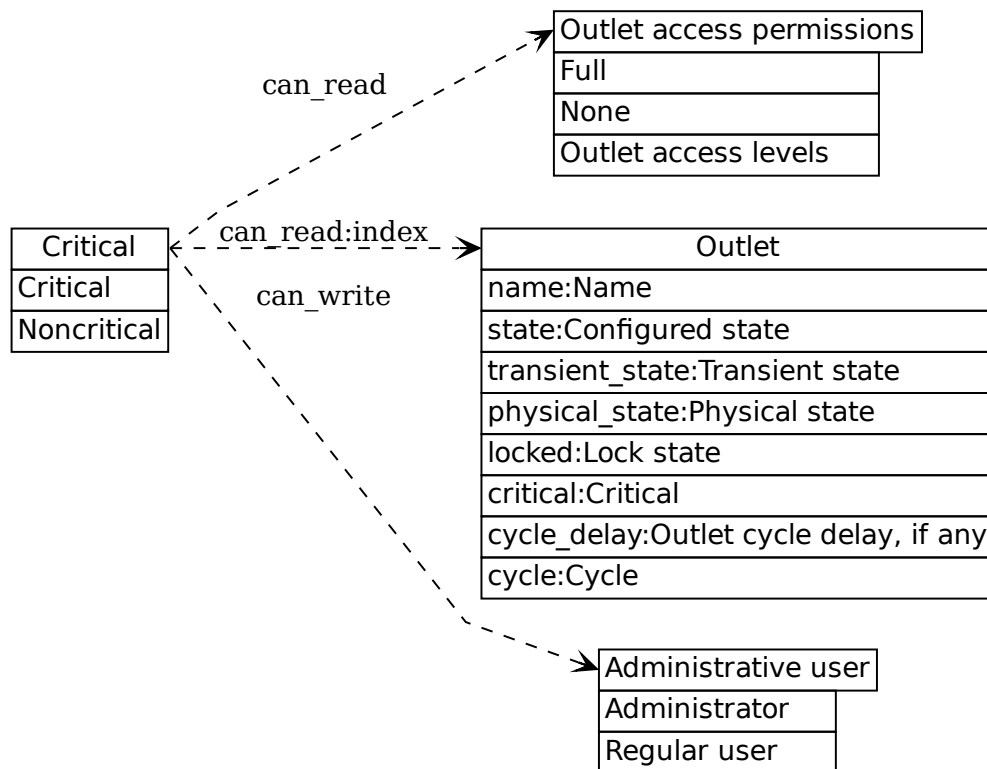
⇒

true

[Browse more samples](#)

2.11 Outlet: Critical

sum (boolean)	relay/outlets/N/critical/
Flag indicating whether the outlet is critical, and turning it off should ask for confirmation	



Retrieving the value is denied if any of the following is true:

- `outlet access permissions` is equal to `false`
- all of the following is true:
 - `outlet access permissions` is not equal to `true`
 - not `outlet access permissions[index of outlet]`

Changing the value is denied if not `administrative user`

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Critical	Confirmation requested to change the outlet state
constant false	Noncritical	No confirmation is needed to change the outlet state

Sample `requests read` command (note that `_outlet_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/relay/outlets/'+str(↵
↵ _outlet_index)+'/'critical/', auth=auth, headers=headers).json())
```

⇒

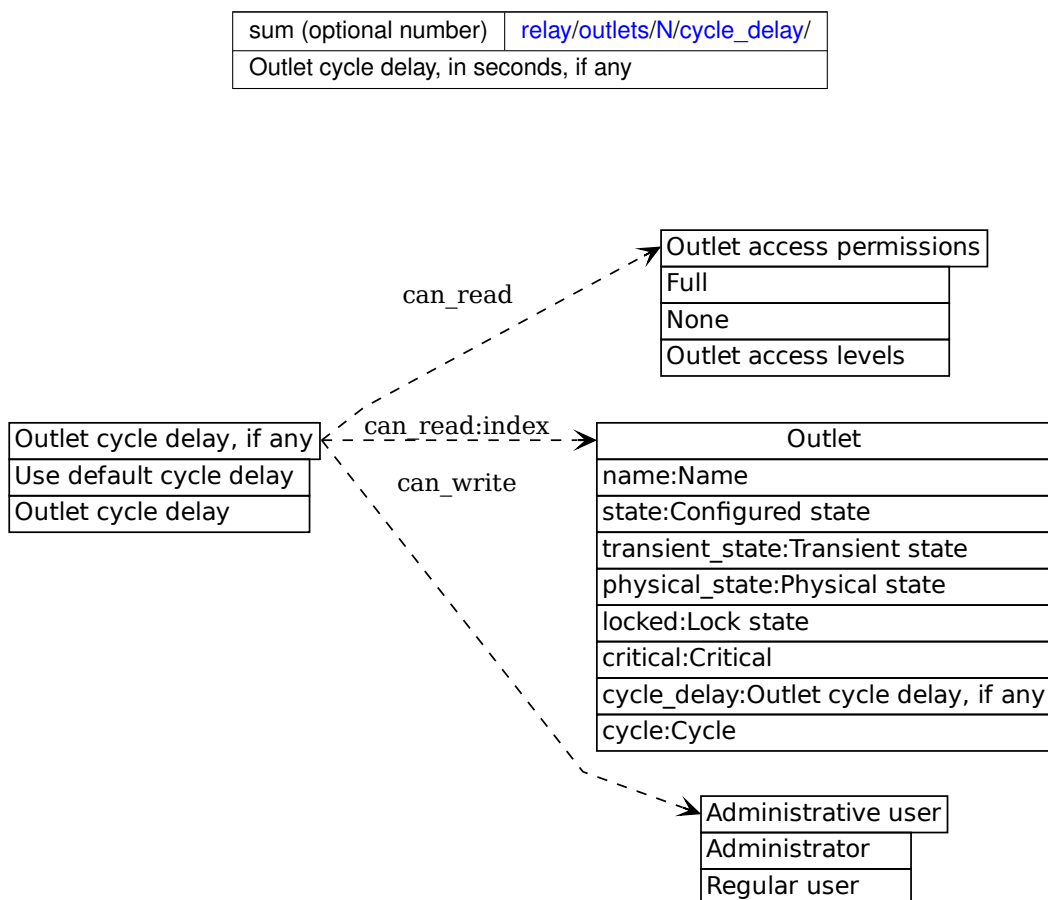
True

Sample `curl` write command (note that `:outlet_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "true" "http ↵
↵ ://192.168.0.100/restapi/relay/outlets/:outlet_index/critical/"
```

[Browse more samples](#)

2.12 Outlet: Outlet cycle delay, if any



Retrieving the value is denied if any of the following is true:

- [outlet access permissions](#) is equal to `false`
- all of the following is true:
 - [outlet access permissions](#) is not equal to `true`
 - not [outlet access permissions](#)[index of outlet]

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Use default cycle delay	Use unit default cycle delay	
number	Outlet cycle delay	Outlet cycle delay, in seconds	the value is greater than 0

Sample CLI write command (note that `outlet_index` is a variable):

```
uom set "relay/outlets/${outlet_index}/cycle_delay" "null"
```

Sample requests read command (note that `_outlet_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/relay/outlets/'+str( ↵
    ↵ _outlet_index)+' /cycle_delay/', auth=auth, headers=headers).json()))
```

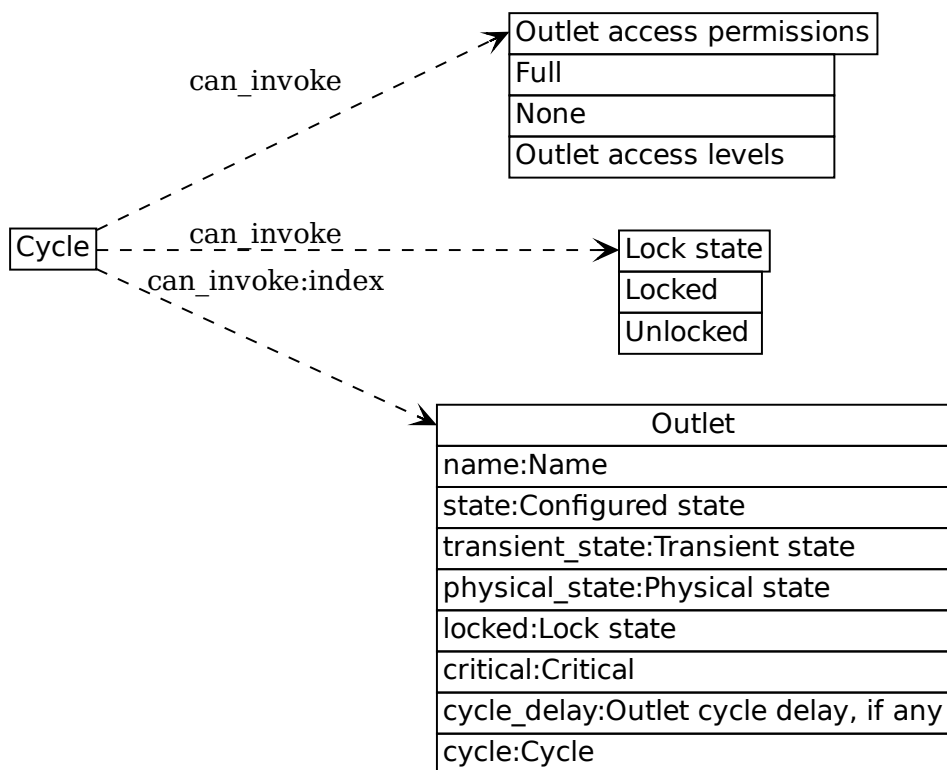
⇒

None

[Browse more samples](#)

2.13 Outlet: Cycle

call	relay/outlets/N/cycle/
Turns the outlet off, then on again after the cycle delay passes. Has no effect when the outlet is already off. Signals an error if the o	



Performing the function call is denied if any of the following is true:

- any of the following is true:
 - `outlet access permissions` is equal to `false`
 - all of the following is true:
 - * `outlet access permissions` is not equal to `true`
 - * not `outlet access permissions`[index of outlet]
- `lock state`

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Action performed: Started or No action taken

Sample uom library invocation (note that `_outlet_index` is a variable):

```
print(uom.dump(uom.relay.outlets[_outlet_index].cycle()))
```

⇒

false

Sample CLI invocation (note that `outlet_index` is a variable):

```
uom invoke "relay/outlets/${outlet_index}/cycle"
```

⇒

false

[Browse more samples](#)

2.13.1 Action performed

sum (boolean)	relay/outlets/N/cycle/results: 1/
Flag indicating whether the call affected the outlet state	

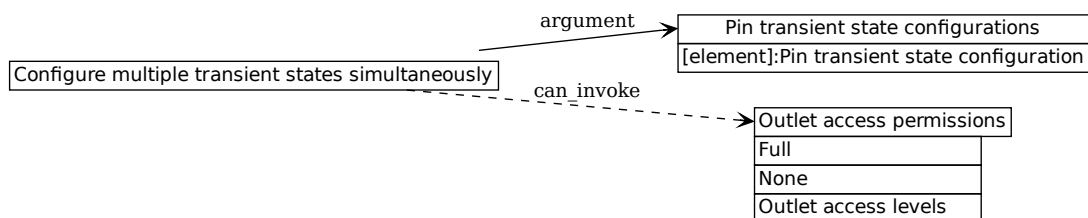
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Started	The outlet was on and the cycle has started
constant false	No action taken	The outlet was off or already in a cycle, so the call had no effect

2.14 Configure multiple transient states simultaneously

call	relay/set_outlet_transient_states/
Change transient states of multiple outlets as simultaneously as possible, failing if one of them is not accessible	



Performing the function call is denied if [outlet access permissions](#) is equal to `false`

The call accepts the following arguments:

1. Pin transient state configurations: array of "(number,On or Off)"

The call returns the following results:

1. Empty result: null

Sample uom library invocation:

```
print(uom.dump(uom.relay.set_outlet_transient_states({{5,true},{6,false}})))
```

⇒

null

Sample requests invocation:

```
print(requests.post('http://192.168.0.100/restapi/relay/ ↵
↵ set_outlet_transient_states/',auth=auth,headers=headers,json=[[0, True], ↵
↵ [2, False], [3, True], [7, True]])).json()
```

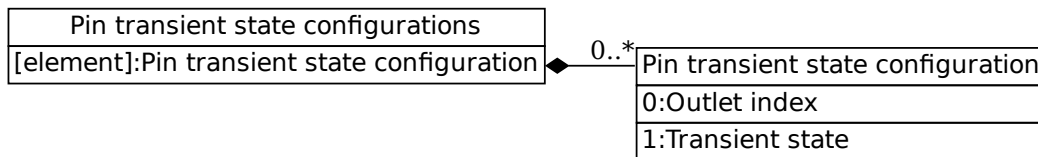
⇒

None

[Browse more samples](#)

2.14.1 Pin transient state configurations

array	relay/set_outlet_transient_states/arguments: 1/
Desired pin transient state configurations	



The value is subject to the following constraints: 0 elements of all values of [the value](#) are distinct

This array does not correspond to an actual resource.

This array contains [Pin transient state configuration](#) elements.

See also [Pin transient state configurations: Pin transient state configuration](#)

2.14.2 Empty result

constant null	relay/set_outlet_transient_states/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

2.15 Pin transient state configurations: Pin transient state configuration

tuple	relay/set_outlet_transient_states/arguments: 1/N/
Desired pin transient state configuration	

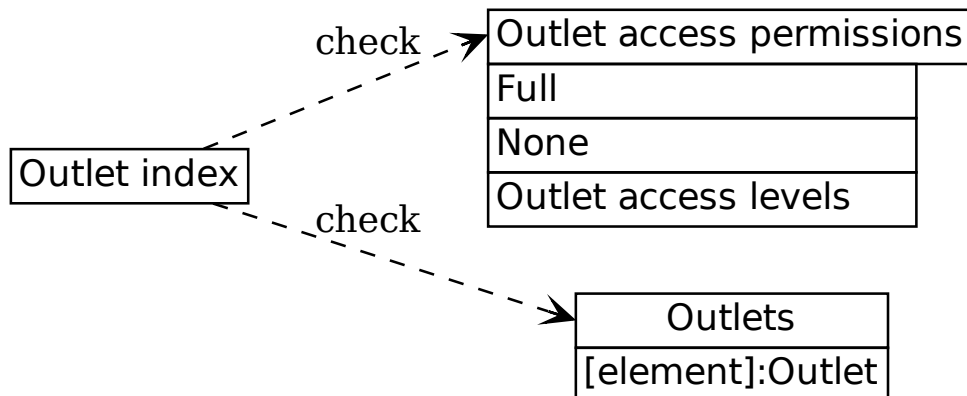
This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Outlet index
2	Transient state

2.15.1 Outlet index

number	relay/set_outlet_transient_states/arguments: 1/N/1/
Index of the outlet to be configured	



The value is subject to the following constraints: all of the following is true:

- any of the following is true:
 - [outlet access permissions](#) is equal to `true`
 - [outlet access permissions\[the value\]](#)
- [outlets\[the value\]](#)
- not [outlets\[the value\].locked](#)

This number does not correspond to an actual resource.

2.15.2 Transient state

sum (boolean)	relay/set_outlet_transient_states/arguments: 1/N/2/
Desired actual state of the outlet	

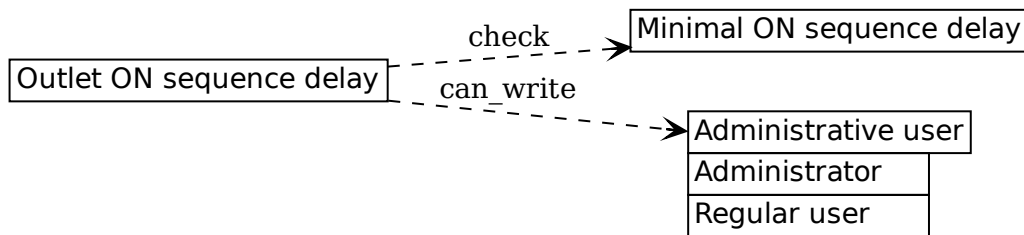
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	On	The outlet is powered
constant false	Off	The outlet is not powered

2.16 Outlet ON sequence delay

number	relay/sequence_delay/
Time after switching an outlet on during which switching outlets on is delayed to prevent simultaneous inrush currents on power-on	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater or equal to [minimal ON sequence delay](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample JS `request` write command:

```
request.put ({url:"relay/sequence_delay/",body:2});
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/sequence_delay/"
```

⇒

4

[Browse more samples](#)

2.17 Minimal ON sequence delay

number	relay/min_sequence_delay/
The minimal time after switching an outlet on during which switching outlets on is delayed	

The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater or equal to 0

This number does not support direct modification.

This number represents a value in persistent storage.

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/relay/min_sequence_delay/', auth= ↵
↵ auth,headers=headers).json())
```

⇒

1

Sample CLI read command:

```
uom get "relay/min_sequence_delay"
```

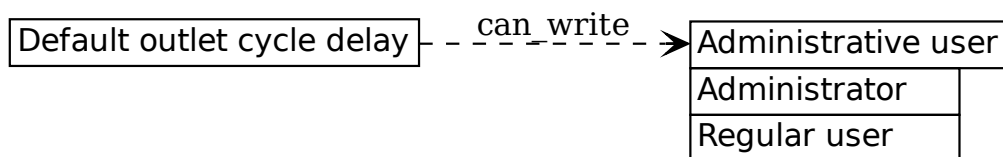
⇒

1

[Browse more samples](#)

2.18 Default outlet cycle delay

number	relay/cycle_delay/
Time between switching an outlet off and turning it back on during cycling, which allows the controlled device to really power down	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample uom library read command:

```
print (uom.dump(uom.relay.cycle_delay))
```

⇒

10

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/cycle_delay/"
```

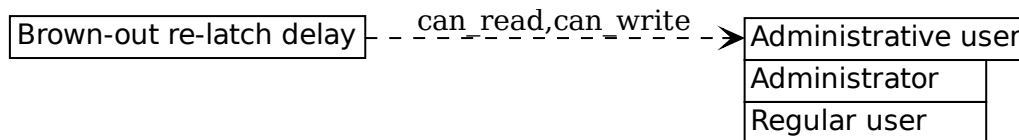
⇒

6

[Browse more samples](#)

2.19 Brown-out re-latch delay

number	relay/relatch/
Time to wait before relatching relays on brown-out	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample CLI read command:

```
uom get "relay/relatch"
```

⇒

7

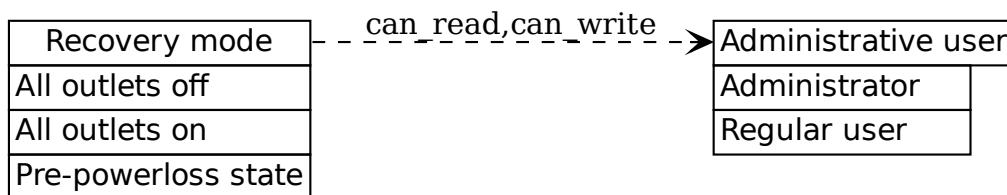
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "9" "http ↵
↵ ://192.168.0.100/restapi/relay/relatch/"
```

[Browse more samples](#)

2.20 Recovery mode

sum (enumerated number)	relay/recovery_mode/
Outlet power-off recovery state policy	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant 0	All outlets off	All outlets remain powered off at power-up
constant 1	All outlets on	All outlets are switched on in sequence during power-up
constant 2	Pre-powerloss state	Outlets are returned to configured pre-powerloss state during power-up

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
  ↵ json" -H "Accept: application/json" --data-binary "1" "http ↵
  ↵ ://192.168.0.100/restapi/relay/recovery_mode/"
```

Sample JS request read command:

```
request.get({url:"relay/recovery_mode/"},function(error,response,body) {console. ↵
  ↵ log(body)});
```

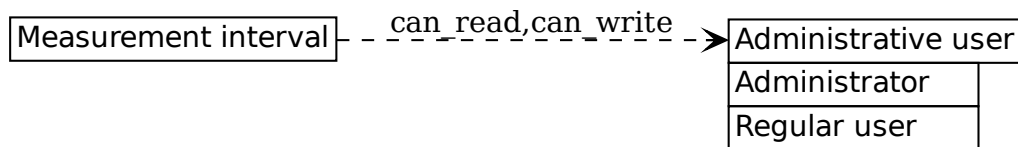
⇒

0

[Browse more samples](#)

2.21 Measurement interval

number	relay/measurement_interval/
Time between meter value fetches	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/measurement_interval/"
```

⇒

5

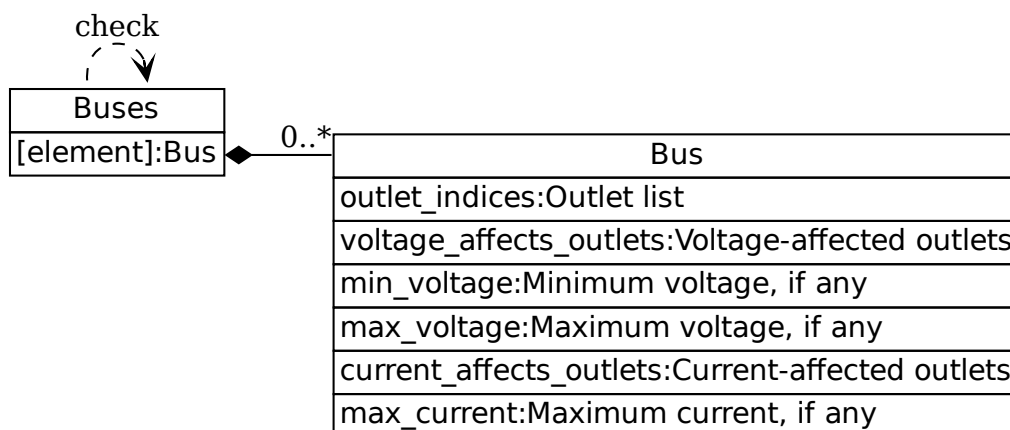
Sample CLI write command:

```
uom set "relay/measurement_interval" "9"
```

[Browse more samples](#)

2.22 Buses

array	relay/buses/
Buses powering the relay	



This array does not support direct modification.

This array represents a value in persistent storage.

This array contains [Bus](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print(uom.dump(uom.relay.buses))
```

⇒

Sample CLI read command:

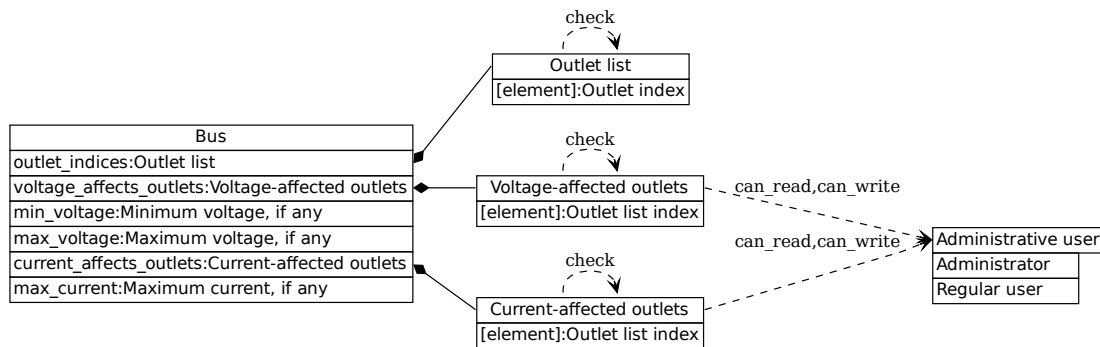
```
uom get "relay/buses"
```

⇒

[Browse more samples](#)

2.22.1 Bus

object	relay/buses/N/
Object representing bus state and configuration	



This object contains the following items:

outlet_indices	Outlet list
voltage_affects_outlets	Voltage-affected outlets
min_voltage	Minimum voltage, if any
max_voltage	Maximum voltage, if any
current_affects_outlets	Current-affected outlets
max_current	Maximum current, if any

Sample JS request read command (note that `_bus_index` is a variable):

```
request.get({url:"relay/buses/"+_bus_index.toString()+"/"},function(error, ↵
    ↵ response,body) {console.log(body)});
```

⇒

```
{ "outlet_indices": [4,5,6,7], "voltage_affects_outlets": [0,1,2,3], "max_current ↵
    ↵ ":14, "current_affects_outlets": [0,1,2,3], "max_voltage": null, "min_voltage ↵
    ↵ ":60 }
```

Sample CLI write command (note that `bus_index` is a variable):

```
uom set "relay/buses/${bus_index}" "{ \"outlet_indices\": [4,5,6,7], \" ↵
    ↵ voltage_affects_outlets\": [0,1,2,3], \"max_current\":14, \" ↵
    ↵ current_affects_outlets\": [0,1,2,3], \"max_voltage\": null, \"min_voltage ↵
    ↵ \":60 }"
```

[Browse more samples](#)

See also [Bus: Outlet list](#)

See also [Bus: Voltage-affected outlets](#)

See also [Bus: Minimum voltage, if any](#)

See also [Bus: Maximum voltage, if any](#)

See also [Bus: Current-affected outlets](#)

See also [Bus: Maximum current, if any](#)

2.23 Bus: Outlet list

array	relay/buses/N/outlet_indices/
List of outlets connected to the bus	

This array is composite, i.e. is modified as a whole.

This array does not support direct modification.

This array represents a value in persistent storage.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

This array contains [Outlet index](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command (note that `_bus_index` is a variable):

```
print (uom.dump(uom.relay.buses[_bus_index].outlet_indices))
```

⇒

```
{4, 5, 6, 7}
```

Sample CLI read command (note that `bus_index` is a variable):

```
uom get "relay/buses/${bus_index}/outlet_indices"
```

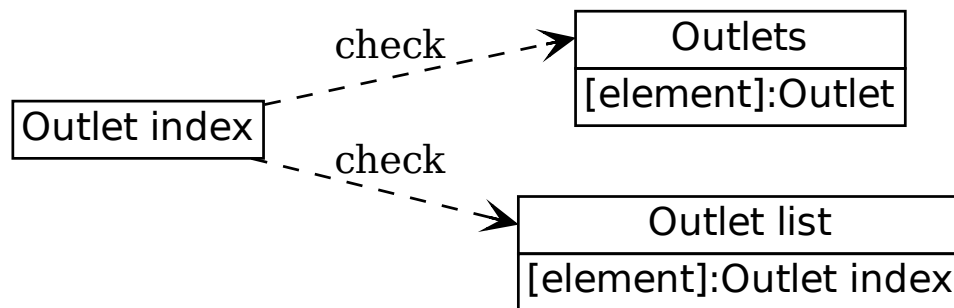
⇒

```
[4, 5, 6, 7]
```

[Browse more samples](#)

2.23.1 Outlet index

number	relay/buses/N/outlet_indices/N/
Index of outlet connected to the bus	



The value is subject to the following constraints: all of the following is true:

- `outlets[the value]`
- `outlet list` are distinct

This number is a part of a composite value which is modified as a whole.

This number does not support direct modification.

This number represents a value in persistent storage.

Sample uom library read command (note that `_bus_index` and `_outlet_index_index` are variables):

```
print (uom.dump(uom.relay.buses[_bus_index].outlet_indices[_outlet_index_index]))
```

⇒

0

Sample CLI read command (note that `bus_index` and `outlet_index_index` are variables):

```
uom get "relay/buses/${bus_index}/outlet_indices/${outlet_index_index}"
```

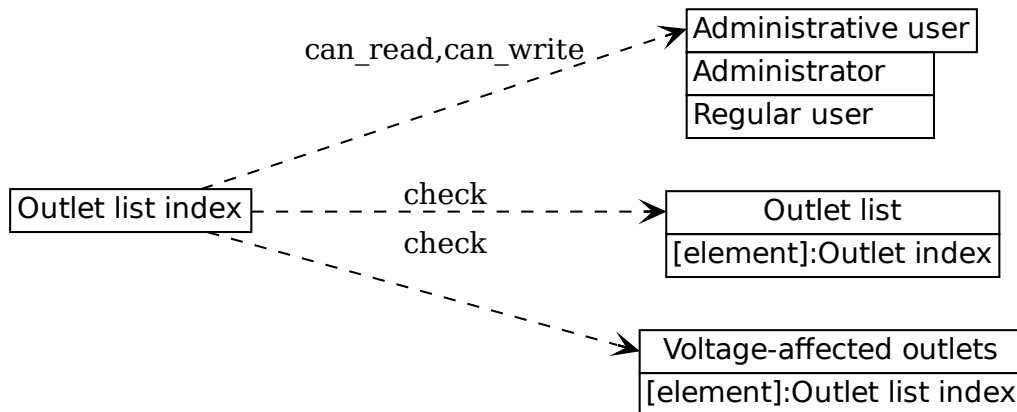
⇒

1

[Browse more samples](#)

2.24 Bus: Voltage-affected outlets

array	relay/buses/N/voltage_affects_outlets/
List of outlets affected by over/undervoltage	



The value is subject to the following constraints: all of the following is true:

- `outlet list[the value]`
- `voltage-affected outlets` are distinct

Retrieving the value is denied if not `administrative user`

Changing the value is denied if not `administrative user`

This number is a part of a composite value which is modified as a whole.

Sample `curl` deletion command (note that `:bus_index` and `:outlet_list_index_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X DELETE -H "Accept: application/json" \
  "http://192.168.0.100/restapi/relay/buses/:bus_index/" \
  "voltage_affects_outlets/:outlet_list_index_index/"
```

Sample `requests` read command (note that `_bus_index` and `_outlet_list_index_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/relay/buses/'+str(_bus_index)+'/' \
  "voltage_affects_outlets/'+str(_outlet_list_index_index)+'/', auth=auth, \
  headers=headers).json())
```

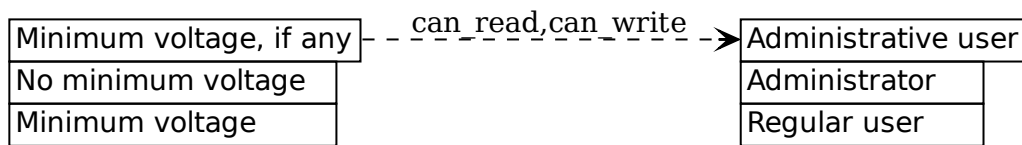
⇒

1

[Browse more samples](#)

2.25 Bus: Minimum voltage, if any

sum (optional number)	relay/buses/N/min_voltage/
The minimum voltage, below which the affected bus outlets are switched off, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	No minimum voltage	Undervoltage doesn't affect any outlets	
number	Minimum voltage	The minimum voltage, below which the affected bus outlets are switched off	the value is greater or equal to 0

Sample uom library write command (note that `_bus_index` is a variable):

```
uom.relay.buses[_bus_index].min_voltage=60
```

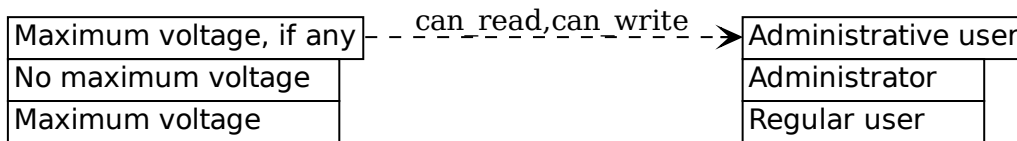
Sample CLI write command (note that `bus_index` is a variable):

```
uom set "relay/buses/${bus_index}/min_voltage" "60"
```

[Browse more samples](#)

2.26 Bus: Maximum voltage, if any

sum (optional number)	relay/buses/N/max_voltage/
The maximum voltage, above which the affected bus outlets are switched off, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	No maximum voltage	Overvoltage doesn't affect any outlets	
number	Maximum voltage	The maximum voltage, above which the affected bus outlets are switched off	the value is greater or equal to 0

Sample curl write command (note that `:bus_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "null" "http ↵
↵ ://192.168.0.100/restapi/relay/buses/:bus_index/max_voltage/"
```

Sample uom library read command (note that `_bus_index` is a variable):

```
print(uom.dump(uom.relay.buses[_bus_index].max_voltage))
```

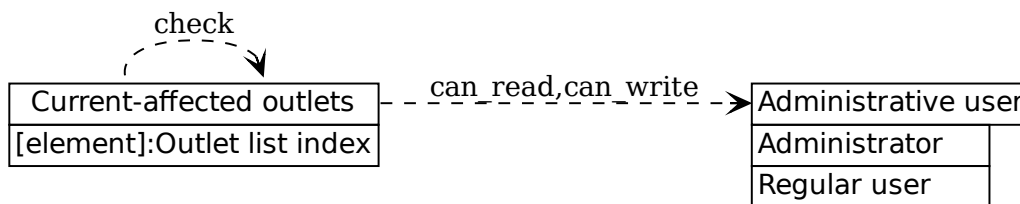
⇒

```
null
```

[Browse more samples](#)

2.27 Bus: Current-affected outlets

array	relay/buses/N/current_affects_outlets/
List of outlets affected by overcurrent	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

This array contains [Outlet list index](#) elements.

Sample JS request outlet list index creation command (note that `_bus_index` is a variable):

```
request.post({url:"relay/buses/"+_bus_index.toString()+"/current_affects_outlets",
  body:0});
```

Sample curl read command (note that `:bus_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/restapi/relay/buses/:bus_index/current_affects_outlets/"
```

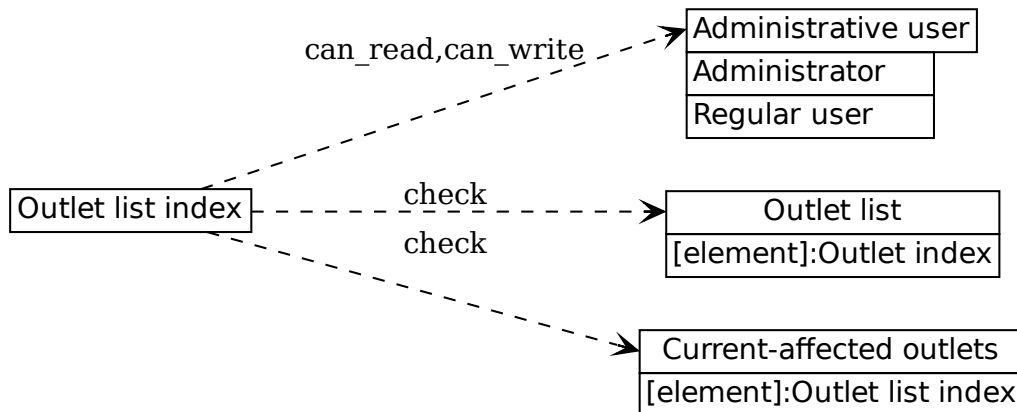
⇒

[0]

[Browse more samples](#)

2.27.1 Outlet list index

number	relay/buses/N/current_affects_outlets/N/
Index of outlet in the bus outlet list	



The value is subject to the following constraints: all of the following is true:

- [outlet list\[the value\]](#)
- [current-affected outlets](#) are distinct

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

Sample requests read command (note that `_bus_index` and `_outlet_list_index_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/relay/buses/'+str(_bus_index)+'/'
    ↪ current_affects_outlets/'+str(_outlet_list_index_index)+'/', auth=auth,
    ↪ headers=headers).json())
```

⇒

1

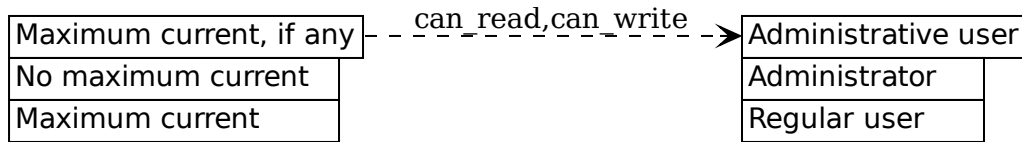
Sample uom library deletion command (note that `_bus_index` and `_outlet_list_index_index` are variables):

```
local composite=uom.copy(uom.relay.buses[_bus_index].current_affects_outlets)
uom.remove(composite,_outlet_list_index_index)
uom.relay.buses[_bus_index].current_affects_outlets=composite
```

[Browse more samples](#)

2.28 Bus: Maximum current, if any

sum (optional number)	relay/buses/N/max_current/
The maximum current, above which the affected bus outlets are switched off, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	No maximum current	Overcurrent doesn't affect any outlets	
number	Maximum current	The maximum current, above which the affected bus outlets are switched off	the value is greater or equal to 0

Sample CLI write command (note that `bus_index` is a variable):

```
uom set "relay/buses/${bus_index}/max_current" "5"
```

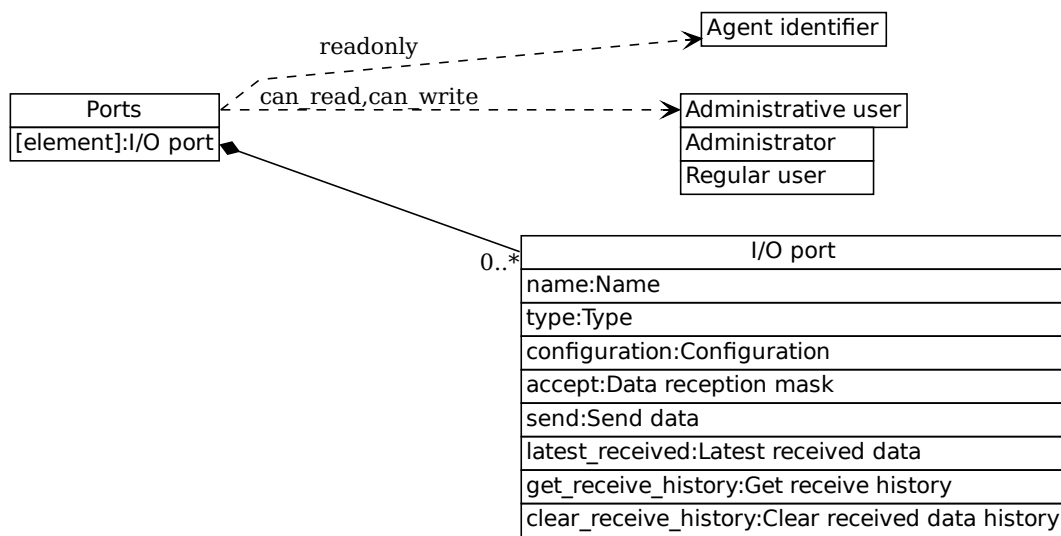
Sample uom library write command (note that `_bus_index` is a variable):

```
uom.relay.buses[_bus_index].max_current=5
```

[Browse more samples](#)

2.29 Ports

map	relay/ports/
I/O ports attached to the relay	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map does not support direct modification if [agent identifier](#) is not equal to relay.

This map contains [I/O port](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command:

```
request.get({url: "relay/ports/"}, function(error, response, body) {console.log(body) ↵
  ↵ });
```

⇒

<...>

Sample requests read command:

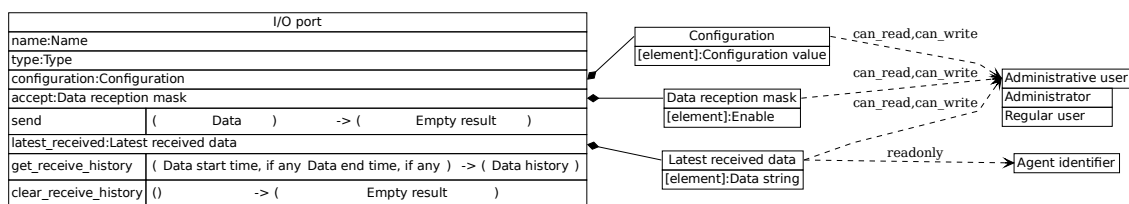
```
print(requests.get('http://192.168.0.100/restapi/relay/ports/', auth=auth, headers= ↵
  ↵ headers).json())
```

⇒

[Browse more samples](#)

2.29.1 I/O port

object	relay/ports/S/
Object representing an I/O port and its channels	



This object contains the following items:

name	Name
type	Type
configuration	Configuration
accept	Data reception mask
send	Send data
latest_received	Latest received data
get_receive_history	Get receive history
clear_receive_history	Clear received data history

Sample requests write command (note that `_i_o_port` is a variable):

```
requests.put('http://192.168.0.100/restapi/relay/ports/'+_i_o_port+'/', auth=auth, ↵
    ↵ headers=headers, json={'latest_received': {'d': 'F33A'}, 'type': 'uart', ' ↵
    ↵ name': 'uart_n', 'accept': {}, 'configuration': {'baudrate': '3', ' ↵
    ↵ stop_bits': '1.5', 'parity': 'S'}})
```

Sample CLI read command (note that `i_o_port` is a variable):

```
uom get "relay/ports/${i_o_port}"
```

⇒

```
{ "latest_received": { "d": "C7F98FEC", "type": "uart", "name": "uart_hyt", "accept ↵
  ↵ ": [], "configuration": { "char_size": "8" } }
```

[Browse more samples](#)

See also [I/O port: Name](#)

See also [I/O port: Type](#)

See also [I/O port: Configuration](#)

See also [I/O port: Data reception mask](#)

See also [I/O port: Send data](#)

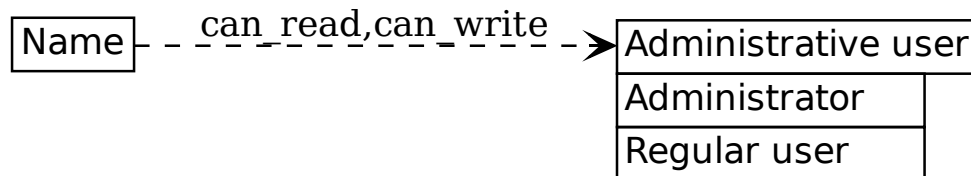
See also [I/O port: Latest received data](#)

See also [I/O port: Get receive history](#)

See also [I/O port: Clear received data history](#)

2.30 I/O port: Name

string	relay/ports/S/name/
User-visible port name	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample `curl` write command (note that `:i_o_port` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"uart_p\" \"http ↵
↵ ://192.168.0.100/restapi/relay/ports/:i_o_port/name/"
```

Sample `curl` read command (note that `:i_o_port` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/ports/:i_o_port/name/"
```

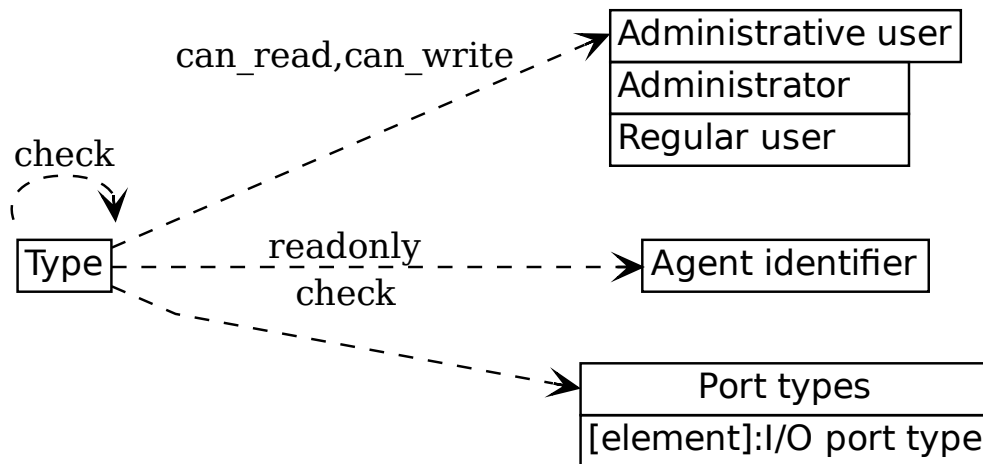
⇒

"uart_6"

[Browse more samples](#)

2.31 I/O port: Type

string	relay/ports/S/type/
Port type	



The value is subject to the following constraints: [port types\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string does not support direct modification if [agent identifier](#) is not equal to relay.

Sample JS request read command (note that `_i_o_port` is a variable):

```
request.get({url:"relay/ports/"+_i_o_port+"/type/"},function(error,response,body) ←
  ↪ {console.log(body)});
```

⇒

"uart"

Sample curl read command (note that `:i_o_port` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ←
  ↪ restapi/relay/ports/:i_o_port/type/"
```

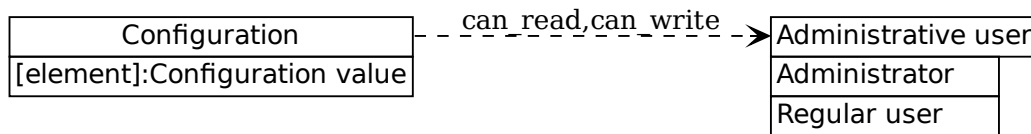
⇒

"uart"

[Browse more samples](#)

2.32 I/O port: Configuration

map	relay/ports/S/configuration/
Port configuration	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map represents a value in persistent storage.

This map can change as if by itself or indirectly because of other actions.

This map contains [Configuration value](#) elements.

Sample `requests` read command (note that `_i_o_port` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/relay/ports/'+_i_o_port+'/' +↵
↵ configuration/', auth=auth, headers=headers).json())
```

⇒

```
{'stop_bits': '2'}
```

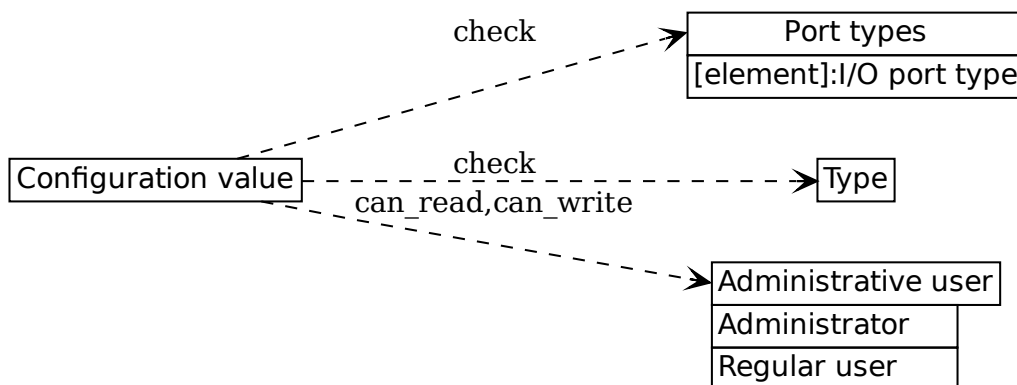
Sample `curl` write command (note that `:i_o_port` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/↵
↵ json" -H "Accept: application/json" --data-binary '{"parity\":"M\","↵
↵ char_size\":"8\"}' "http://192.168.0.100/restapi/relay/ports/:i_o_port/↵
↵ configuration/"
```

[Browse more samples](#)

2.32.1 Configuration value

string	relay/ports/S/configuration/S/
Value of a configuration item	



The value is subject to the following constraints: **the value** matches **port types[type].data_items[index of the value].regexp**

Retrieving the value is denied if not **administrative user**

Changing the value is denied if not **administrative user**

Sample CLI deletion command (note that `i_o_port` and `configuration_value` are variables):

```
uom remove "relay/ports/${i_o_port}/configuration/${configuration_value}"
```

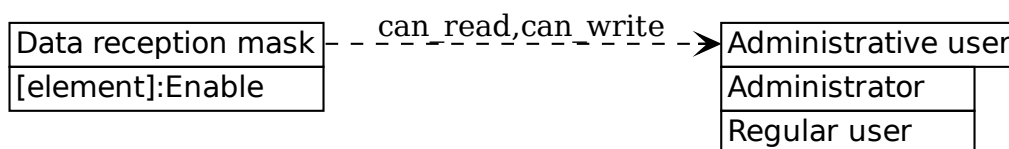
Sample uom library write command (note that `_i_o_port` and `_configuration_value` are variables):

```
uom.relay.ports[_i_o_port].configuration[_configuration_value]="6"
```

[Browse more samples](#)

2.33 I/O port: Data reception mask

map	relay/ports/S/accept/
Mask of channels to receive data from	



Retrieving the value is denied if not **administrative user**

Changing the value is denied if not [administrative user](#)

This map represents a value in persistent storage.

This map contains [Enable](#) elements.

Sample `curl` read command (note that `:i_o_port` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/ports/:i_o_port/accept/"
```

⇒

[]

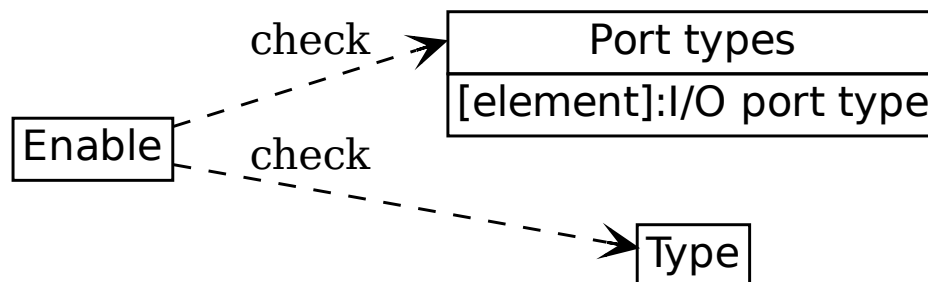
Sample JS request write command (note that `_i_o_port` is a variable):

```
request.put ({url:"relay/ports/"+_i_o_port+"/accept/",body: {"d":true}});
```

[Browse more samples](#)

2.33.1 Enable

constant true	relay/ports/S/accept/S/
Enable reception from this channel	



The value is subject to the following constraints: [port types\[type\].channels\[index of the value\]](#)

Sample CLI write command (note that `i_o_port` and `enable` are variables):

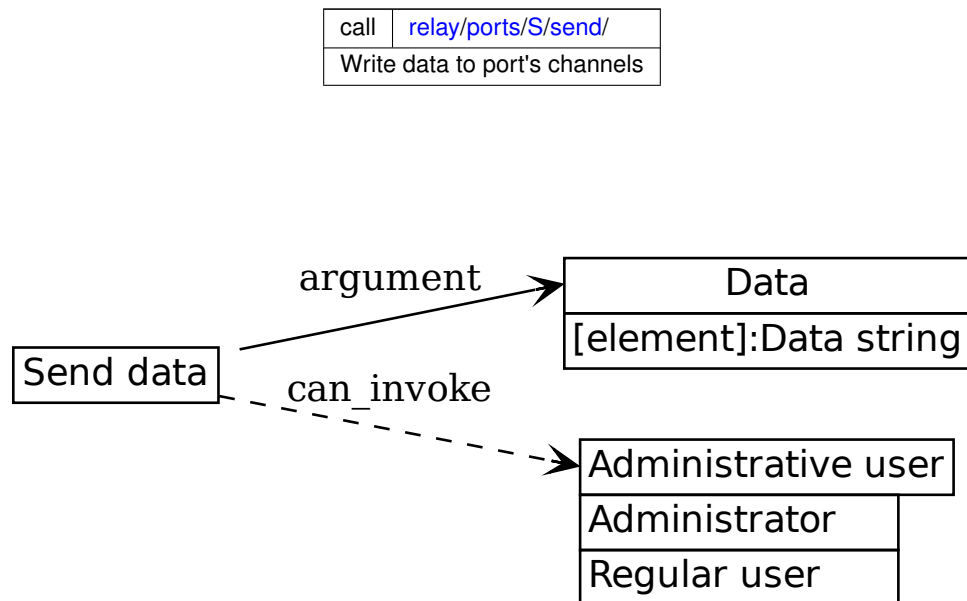
```
uom set "relay/ports/${i_o_port}/accept/${enable}" "[]"
```

Sample `uom` library deletion command (note that `_i_o_port` and `_enable` are variables):

```
uom.remove(uom.relay.ports[_i_o_port].accept,_enable)
```

[Browse more samples](#)

2.34 I/O port: Send data



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

1. Data: map of "string"

The call returns the following results:

1. Empty result: null

Sample `curl` invocation (note that `i_o_port` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
↵ "Accept: application/json" --data-binary "{\"d\": \"69D67331600979\"}" " ↵
↵ http://192.168.0.100/restapi/relay/ports/:i_o_port/send/"
```

⇒

null

Sample `uom` library invocation (note that `_i_o_port` is a variable):

```
print(uom.dump(uom.relay.ports[_i_o_port].send()))
```

⇒

null

[Browse more samples](#)

2.34.1 Data

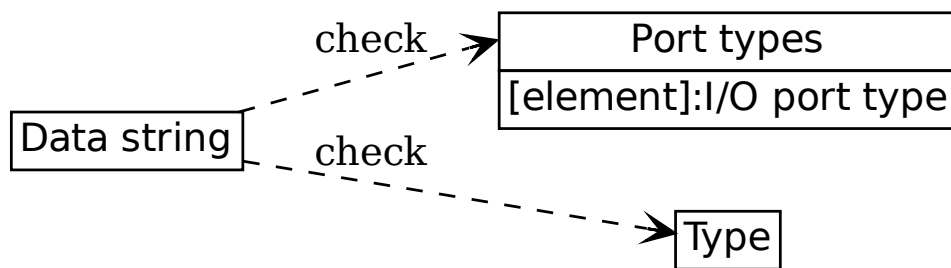
map	relay/ports/S/send/arguments: 1/
Data to write, indexed by channel	

This map does not correspond to an actual resource.

This map contains [Data string](#) elements.

string	relay/ports/S/send/arguments: 1/S/
Channel send data	

2.34.1.1 Data string



The value is subject to the following constraints: [port types\[type\].channels\[index of the value\]](#)

This string does not correspond to an actual resource.

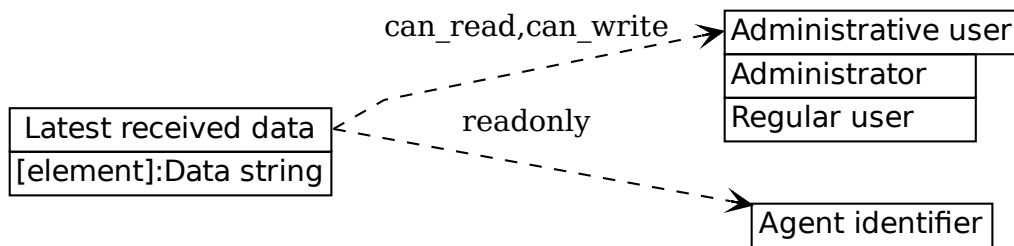
2.34.2 Empty result

constant null	relay/ports/S/send/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

2.35 I/O port: Latest received data

map	relay/ports/S/latest_received/
Latest data received, indexed by channel	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification if [agent identifier](#) is not equal to relay.

Changes to this map may have an effect besides setting value.

This map contains [Data string](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command (note that `_i_o_port` is a variable):

```
print(uom.dump(uom.relay.ports[_i_o_port].latest_received))
```

⇒

```
{d="82"}
```

Sample curl read command (note that `:i_o_port` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/ports/:i_o_port/latest_received/"
```

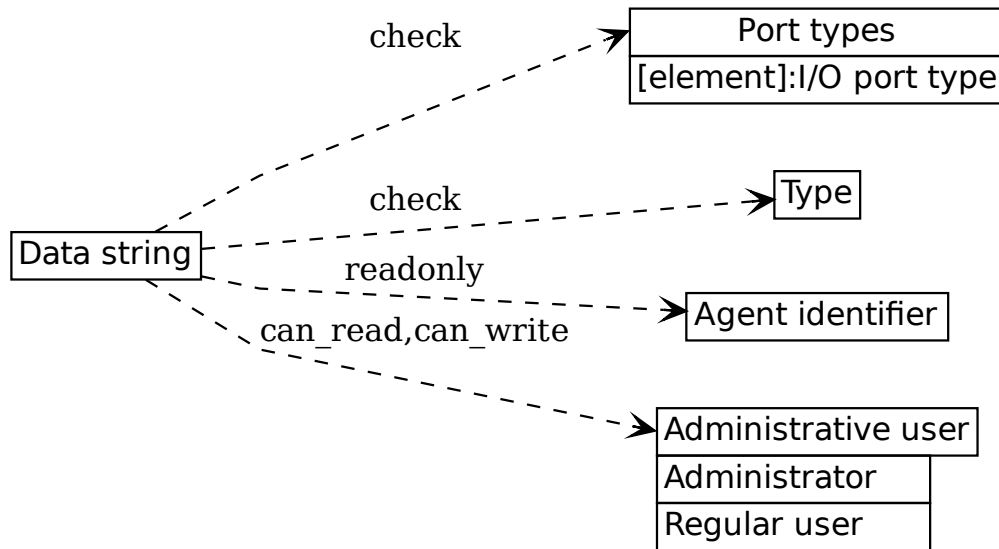
⇒

```
{"d": ""}
```

[Browse more samples](#)

2.35.1 Data string

string	relay/ports/S/latest_received/S/
Channel received data	



The value is subject to the following constraints: [port types\[type\].channels\[index of the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification if [agent identifier](#) is not equal to relay.

Changes to this string may have an effect besides setting value.

Sample CLI read command (note that `i_o_port` and `data_string` are variables):

```
uom get "relay/ports/${i_o_port}/latest_received/${data_string}"
```

⇒

```
[]
```

Sample JS request read command (note that `_i_o_port` and `_data_string` are variables):

```
request.get({url:"relay/ports/"+_i_o_port+"/latest_received/"+_data_string+"/"}, ↵
  ↵ function(error,response,body) {console.log(body)});
```

⇒

```
[]
```

[Browse more samples](#)

2.36 Received data element: Reception time

number	relay/ports/S/get_receive_history/results: 1/N/1/
Timestamp of the received data	

The value represents time, the standard unit of which is the second (s).

This number does not correspond to an actual resource.

2.37 Received data element: Received data

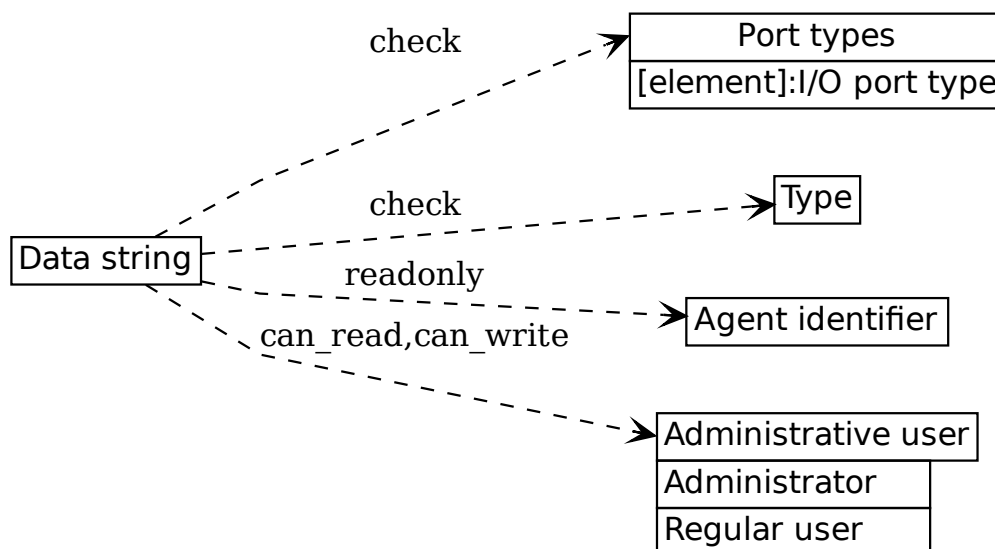
map	relay/ports/S/get_receive_history/results: 1/N/2/
Historical data received, indexed by channel	

This map does not correspond to an actual resource.

This map contains [Data string](#) elements.

2.37.1 Data string

string	relay/ports/S/get_receive_history/results: 1/N/2/S/
Channel received data	



The value is subject to the following constraints: [port types](#)[type].channels[index of the value]

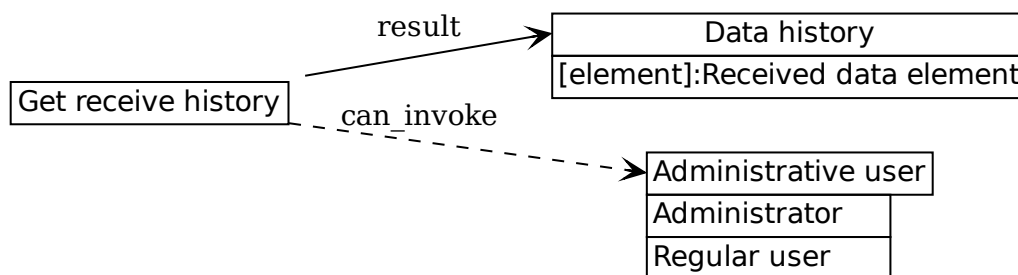
This string does not correspond to an actual resource.

This string does not support direct modification if **agent identifier** is not equal to relay.

Changes to this string may have an effect besides setting value.

2.38 I/O port: Get receive history

call	relay/ports/S/get_receive_history/
Get history of data received over a specific time range	



Performing the function call is denied if not **administrative user**

The call accepts the following arguments:

1. Data start time, if any: Beginning of time or Data start time
2. Data end time, if any: Now or Data end time

The call returns the following results:

1. Data history: array of "(number,map of "string")"

Sample CLI invocation (note that `i_o_port` is a variable):

```
uom invoke "relay/ports/${i_o_port}/get_receive_history" "null" "1234598773"
```

⇒

```
[[1234569885.6667, {"d": "A20D18F6"}]]
```

Sample JS request invocation (note that `_i_o_port` is a variable):

```
request.post({url:"relay/ports/"+_i_o_port+"/get_receive_history/",body:[null, ↵
↵ null]});
```

⇒

```
[[1234581791.3333, {"d": "EAA6686D"}]]
```

[Browse more samples](#)

2.38.1 Data start time, if any

sum (optional number)	relay/ports/S/get_receive_history/arguments: 1/
Requested timestamp of the first data element to retrieve, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Beginning of time	Return data starting from the oldest available
number	Data start time	Requested timestamp of the first data element to retrieve

2.38.2 Data end time, if any

sum (optional number)	relay/ports/S/get_receive_history/arguments: 2/
Requested timestamp of the last data element to retrieve, if any	

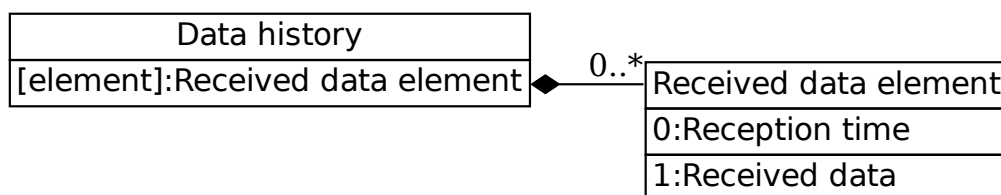
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Now	Return data up to the most recent available
number	Data end time	Requested timestamp of the last data element to retrieve

2.38.3 Data history

array	relay/ports/S/get_receive_history/results: 1/
Historical received data elements	

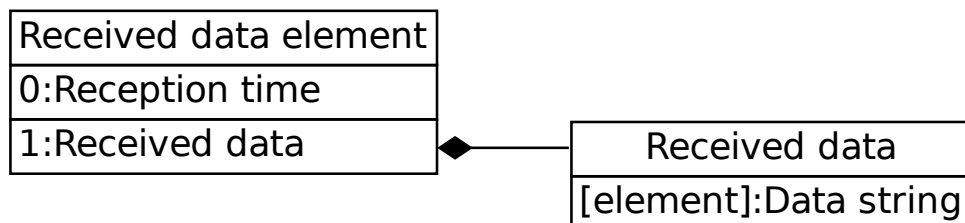


This array does not correspond to an actual resource.

This array contains [Received data element](#) elements.

tuple	relay/ports/S/get_receive_history/results: 1/N/
Historical data element received	

2.38.3.1 Received data element



This tuple does not correspond to an actual resource.

This tuple contains the following items:

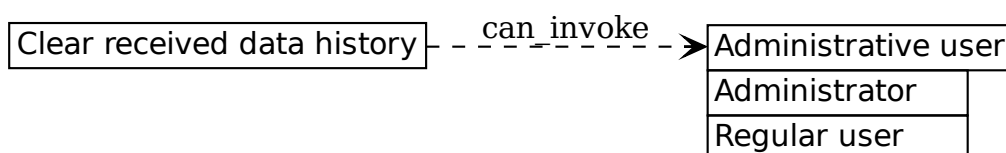
1	Reception time
2	Received data

See also [Received data element: Reception time](#)

See also [Received data element: Received data](#)

2.39 I/O port: Clear received data history

call	relay/ports/S/clear_receive_history/
Clear the complete history of received data	



Performing the function call is denied if not [administrative user](#)

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Empty result: null

Sample uom library invocation (note that `_i_o_port` is a variable):

```
print(uom.dump(uom.relay.ports[_i_o_port].clear_receive_history()))
```

⇒

null

Sample curl invocation (note that `:i_o_port` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
  ↵ "Accept: application/json" --data-binary "[]" "http://192.168.0.100/ ↵
  ↵ restapi/relay/ports/:i_o_port/clear_receive_history/"
```

⇒

null

[Browse more samples](#)

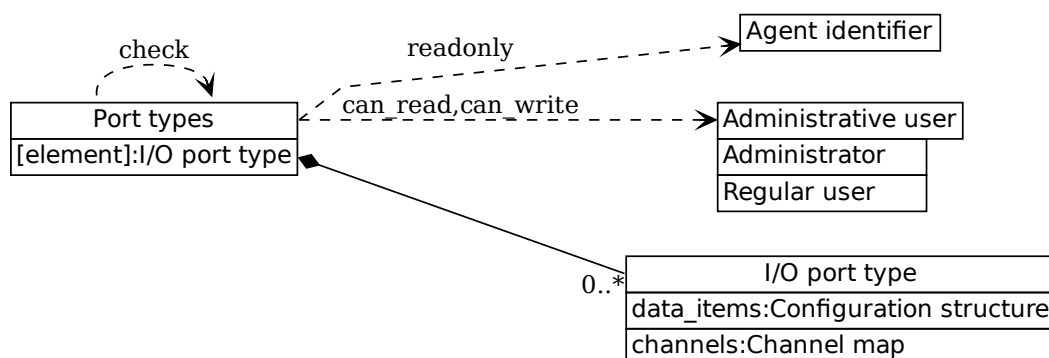
2.39.1 Empty result

constant null	relay/ports/S/clear_receive_history/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

2.40 Port types

map	relay/known_port_types/
Known I/O port types	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification if [agent identifier](#) is not equal to relay.

This map contains [I/O port type](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print (uom.dump(uom.relay.known_port_types) )
```

⇒

Sample CLI read command:

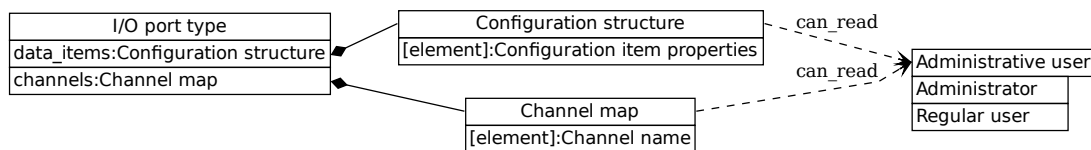
```
uom get "relay/known_port_types"
```

⇒

[Browse more samples](#)

2.40.1 I/O port type

object	relay/known_port_types/S/
Object representing a supported type of I/O ports	



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

data_items	Configuration structure
channels	Channel map

Sample `requests write` command (note that `_i_o_port_type` is a variable):


```
requests.put('http://192.168.0.100/restapi/relay/known_port_types/'+
    ↪ _i_o_port_type+'/',auth=auth,headers=headers,json={'data_items': {'baudrate'
    ↪ ': {'name': 'Baud rate', 'regexp': '^[1-9][0-9]*$'}, 'char_size': {'name': '
    ↪ Character size in bits', 'regexp': '^(5|6|7|8)$'}, 'stop_bits': {'name': '
    ↪ Number of stop bits', 'regexp': '^(1|2|1\\.5)$'}, 'parity': {'name': '
    ↪ Parity setting: N for none, E for even, O for odd, M for mark, S for space
    ↪ ', 'regexp': '^(N|E|O|M|S)$'}}}, 'channels': {'d': 'Data'}})
```

Sample curl read command (note that :i_o_port_type is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
    ↪ restapi/relay/known_port_types/:i_o_port_type/"
```

⇒

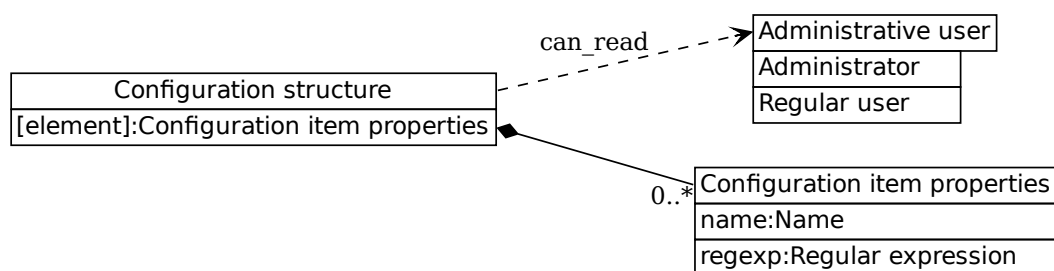
[Browse more samples](#)

See also [I/O port type: Configuration structure](#)

See also [I/O port type: Channel map](#)

2.41 I/O port type: Configuration structure

map	relay/known_port_types/S/data_items/
Port configuration structure	



Retrieving the value is denied if not [administrative user](#)

This map is a part of a composite value which is modified as a whole.

This map does not support direct modification.

This map contains [Configuration item properties](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command (note that _i_o_port_type is a variable):

```
request.get({url:"relay/known_port_types/"+_i_o_port_type+"/data_items/"}, ↵
  ↵ function(error,response,body) {console.log(body)});
```

⇒

Sample CLI read command (note that `i_o_port_type` is a variable):

```
uom get "relay/known_port_types/${i_o_port_type}/data_items"
```

⇒

[Browse more samples](#)

2.41.1 Configuration item properties

object	relay/known_port_types/S/data_items/S/
Properties of a configuration item	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

name	Name
regexp	Regular expression

Sample requests read command (note that `_i_o_port_type` and `_configuration_item_↵` properties are variables):

```
print(requests.get('http://192.168.0.100/restapi/relay/known_port_types/'+ ↵
  ↵ _i_o_port_type+'/data_items/'+_configuration_item_properties+'',auth=auth, ↵
  ↵ headers=headers).json())
```

⇒

```
{'name': 'Character size in bits', 'regexp': '^ (5|6|7|8)$'}
```

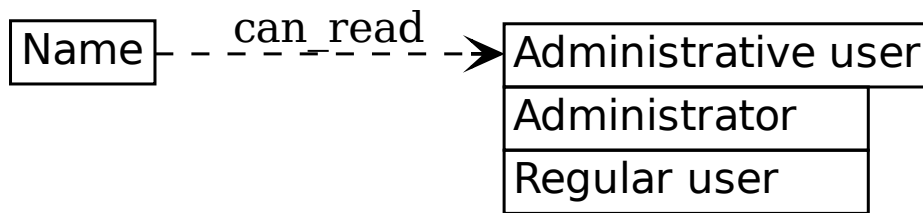
Sample JS request write command (note that `_i_o_port_type` and `_configuration_item_↵` properties are variables):

```
request.put({url:"relay/known_port_types/"+_i_o_port_type+"/data_items/"+ ↵
  ↵ _configuration_item_properties+"/",body:{ "name":"Number of stop bits", " ↵
  ↵ regexp:"^(1|2|1\\.5)$" }});
```

[Browse more samples](#)

string	relay/known_port_types/S/data_items/S/name/
Name of the data item	

2.41.1.1 Name



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample uom library read command (note that `_i_o_port_type` and `_configuration_item_`↵ properties are variables):

```
print(uom.dump(uom.relay.known_port_types[_i_o_port_type].data_items[ ↵
    ↵ _configuration_item_properties].name))
```

⇒

```
"Parity setting: N for none, E for even, O for odd, M for mark, S for space"
```

Sample requests read command (note that `_i_o_port_type` and `_configuration_item_`↵ properties are variables):

```
print(requests.get('http://192.168.0.100/restapi/relay/known_port_types/'+ ↵
    ↵ _i_o_port_type+'/data_items/'+_configuration_item_properties+'/name/', auth= ↵
    ↵ auth,headers=headers).json())
```

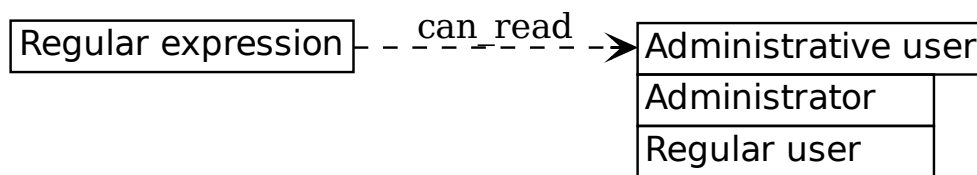
⇒

```
'Character size in bits'
```

[Browse more samples](#)

string	relay/known_port_types/S/data_items/S/regexp/
Regular expression which the data item must match	

2.41.1.2 Regular expression



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample uom library read command (note that `_i_o_port_type` and `_configuration_item_` properties are variables):

```
print(uom.dump(uom.relay.known_port_types[_i_o_port_type].data_items[
    ↪ _configuration_item_properties].regexp))
```

⇒

```
"^(N|E|O|M|S)$"
```

Sample requests read command (note that `_i_o_port_type` and `_configuration_item_` properties are variables):

```
print(requests.get('http://192.168.0.100/restapi/relay/known_port_types/'+
    ↪ _i_o_port_type+'/data_items/'+_configuration_item_properties+'/regexp/',
    ↪ auth=auth,headers=headers).json())
```

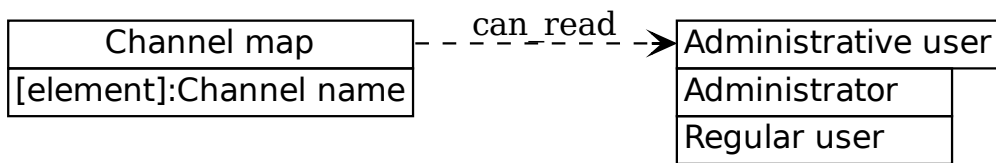
⇒

```
'^(5|6|7|8)$'
```

[Browse more samples](#)

2.42 I/O port type: Channel map

map	relay/known_port_types/S/channels/
Map of channels supported by the port	



Retrieving the value is denied if not [administrative user](#)

This map is a part of a composite value which is modified as a whole.

This map does not support direct modification.

This map contains [Channel name](#) elements.

Creating elements in this collection is not supported.

Sample `requests` read command (note that `_i_o_port_type` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/relay/known_port_types/' + ↔
↔ _i_o_port_type + '/channels/', auth=auth, headers=headers) .json())
```

⇒

```
{ 'd': 'Data' }
```

Sample `uom` library read command (note that `_i_o_port_type` is a variable):

```
print (uom.dump (uom.relay.known_port_types[_i_o_port_type].channels))
```

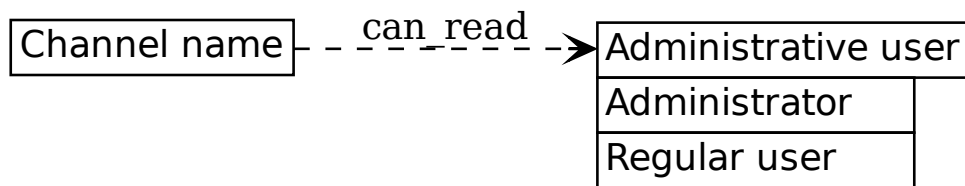
⇒

```
{d="Data"}
```

[Browse more samples](#)

2.42.1 Channel name

string	relay/known_port_types/S/channels/S/
Description of the channel	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample CLI read command (note that `i_o_port_type` and `channel_name` are variables):

```
uom get "relay/known_port_types/${i_o_port_type}/channels/${channel_name}"
```

⇒

"Data"

Sample requests read command (note that `_i_o_port_type` and `_channel_name` are variables):

```
print (requests.get ('http://192.168.0.100/restapi/relay/known_port_types/' + ↵
    ↵ _i_o_port_type + '/channels/' + _channel_name + '/', auth=auth, headers=headers) . ↵
    ↵ json())
```

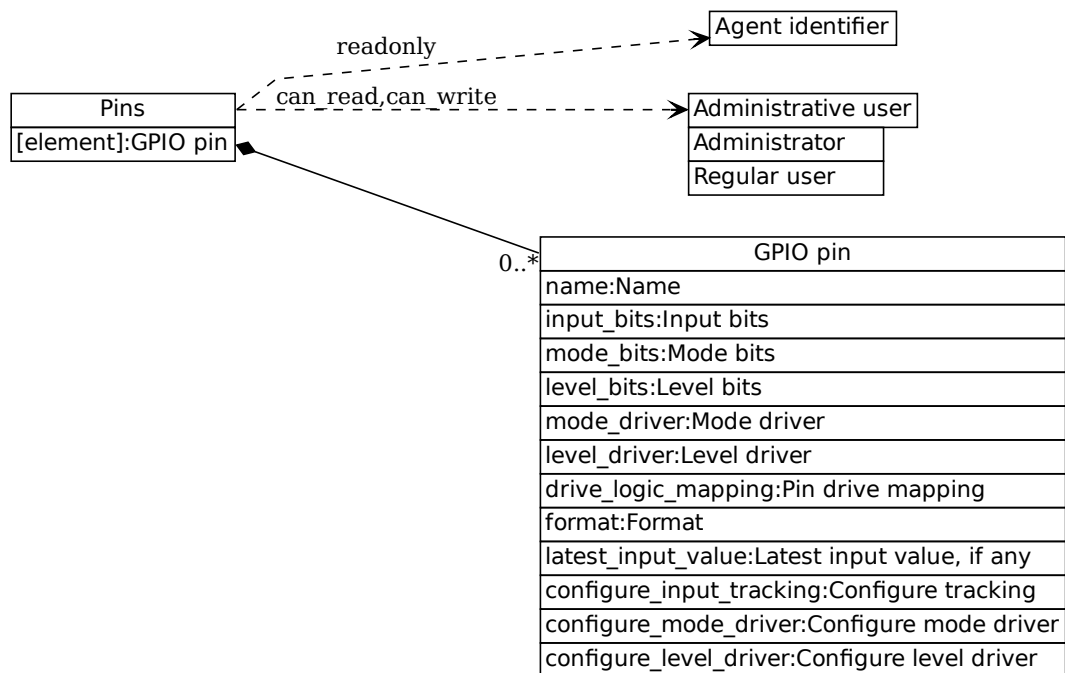
⇒

'Data'

[Browse more samples](#)

2.43 Pins

map	relay/pins/
GPIO pins attached to the relay	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map does not support direct modification if [agent identifier](#) is not equal to relay.

This map contains [GPIO pin](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command:

```
uom get "relay/pins"
```

⇒

Sample JS request read command:

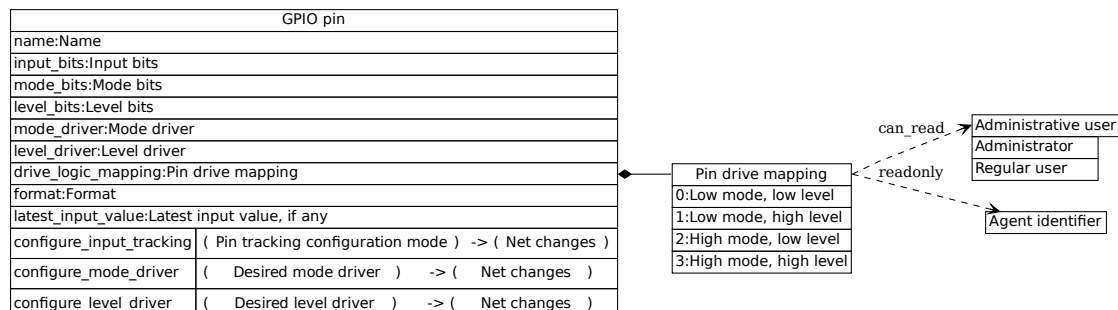
```
request.get({url:"relay/pins/"},function(error,response,body) {console.log(body) ↵
↵ });
```

⇒

[Browse more samples](#)

2.43.1 GPIO pin

object	relay/pins/S/
Object representing state and configuration of a GPIO pin	



This object contains the following items:

name	Name
input_bits	Input bits
mode_bits	Mode bits
level_bits	Level bits
mode_driver	Mode driver
level_driver	Level driver
drive_logic_mapping	Pin drive mapping
format	Format
latest_input_value	Latest input value, if any
configure_input_tracking	Configure tracking
configure_mode_driver	Configure mode driver
configure_level_driver	Configure level driver

Sample JS request write command (note that `_gpio_pin` is a variable):

```
request.put({url:"relay/pins/"+_gpio_pin+"/",body:{"level_bits":21,"↵
↵ latest_input_value":null,"level_driver":true,"drive_logic_mapping↵
↵ ":["0","1","0","1"],"name":"ain6","mode_bits":0,"format":"int","input_bits↵
↵ ":0,"mode_driver":true}});
```

Sample requests write command (note that `_gpio_pin` is a variable):

```
requests.put('http://192.168.0.100/restapi/relay/pins/'+_gpio_pin+'/',auth=auth,↵
↵ headers=headers,json={'level_bits': 0, 'latest_input_value': None, '↵
↵ level_driver': 'uuqcyrkz85', 'drive_logic_mapping': ['Z', 'Z', 'Z', 'Z'], '↵
↵ name': 'dout79', 'mode_bits': 0, 'format': 'fixed', 'input_bits': 17, '↵
↵ mode_driver': True})
```

[Browse more samples](#)

See also [GPIO pin: Name](#)

See also [GPIO pin: Input bits](#)

See also [GPIO pin: Mode bits](#)

See also [GPIO pin: Level bits](#)

See also [GPIO pin: Mode driver](#)

See also [GPIO pin: Level driver](#)

See also [GPIO pin: Pin drive mapping](#)

See also [GPIO pin: Format](#)

See also [GPIO pin: Latest input value, if any](#)

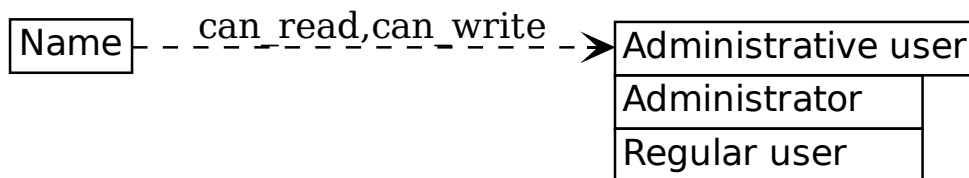
See also [GPIO pin: Configure tracking](#)

See also [GPIO pin: Configure mode driver](#)

See also [GPIO pin: Configure level driver](#)

2.44 GPIO pin: Name

string	relay/pins/S/name/
User-visible pin name	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample JS request read command (note that `_gpio_pin` is a variable):

```
request.get({url:"relay/pins/"+_gpio_pin+"/name/"},function(error,response,body) ↵
    ↵ {console.log(body)});
```

⇒

```
"ain92"
```

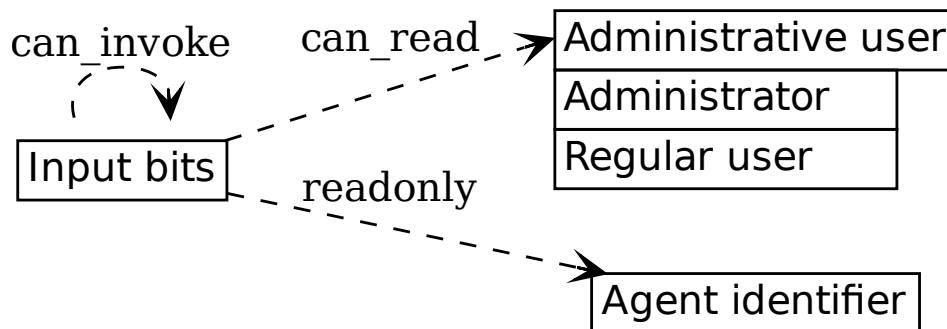
Sample CLI write command (note that `gpio_pin` is a variable):

```
uom set "relay/pins/${gpio_pin}/name" "\"dout3\""
```

[Browse more samples](#)

2.45 GPIO pin: Input bits

number	relay/pins/S/input_bits/
Number of bits in pin input value	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0
- the value is less or equal to 64

Retrieving the value is denied if not [administrative user](#)

This number does not support direct modification if [agent identifier](#) is not equal to relay.

This number represents a value in persistent storage.

Sample CLI read command (note that `gpio_pin` is a variable):

```
uom get "relay/pins/${gpio_pin}/input_bits"
```

⇒

12

Sample curl read command (note that `:gpio_pin` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/pins/:gpio_pin/input_bits/"
```

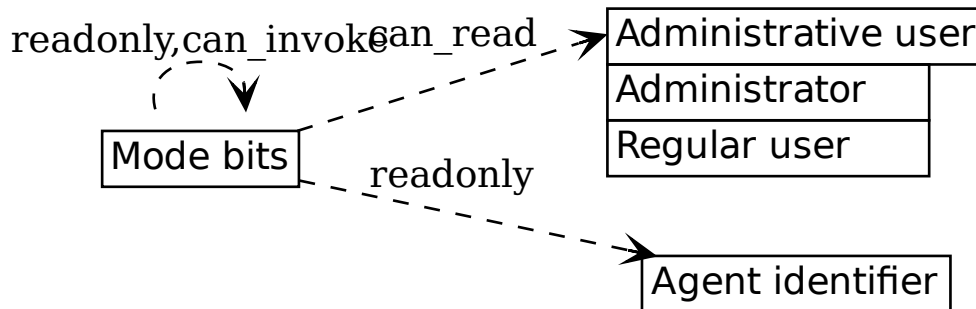
⇒

12

[Browse more samples](#)

2.46 GPIO pin: Mode bits

number	relay/pins/S/mode_bits/
Number of bits in pin mode value	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0
- the value is less or equal to 64

Retrieving the value is denied if not [administrative user](#)

This number does not support direct modification if [agent identifier](#) is not equal to relay.

This number represents a value in persistent storage.

Sample requests read command (note that `_gpio_pin` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/relay/pins/'+_gpio_pin+'/' ↵
↵ mode_bits/', auth=auth, headers=headers).json())
```

⇒

15

Sample JS request read command (note that `_gpio_pin` is a variable):

```
request.get({url:"relay/pins/"+_gpio_pin+"/mode_bits/"},function(error,response, ↵
↵ body) {console.log(body)});
```

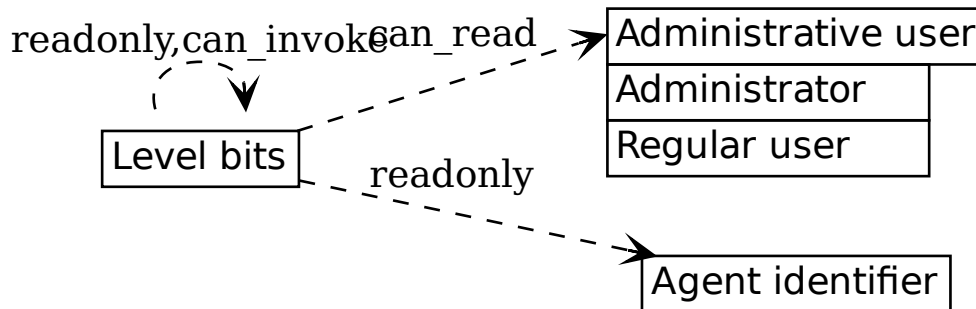
⇒

0

[Browse more samples](#)

2.47 GPIO pin: Level bits

number	relay/pins/S/level_bits/
Number of bits in pin level value	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0
- the value is less or equal to 64

Retrieving the value is denied if not [administrative user](#)

This number does not support direct modification if [agent identifier](#) is not equal to relay.

This number represents a value in persistent storage.

Sample JS request read command (note that `_gpio_pin` is a variable):

```
request.get({url:"relay/pins/"+_gpio_pin+"/level_bits/"},function(error,response,↵
↵ body) {console.log(body)});
```

⇒

12

Sample curl read command (note that `:gpio_pin` is a URL template argument):

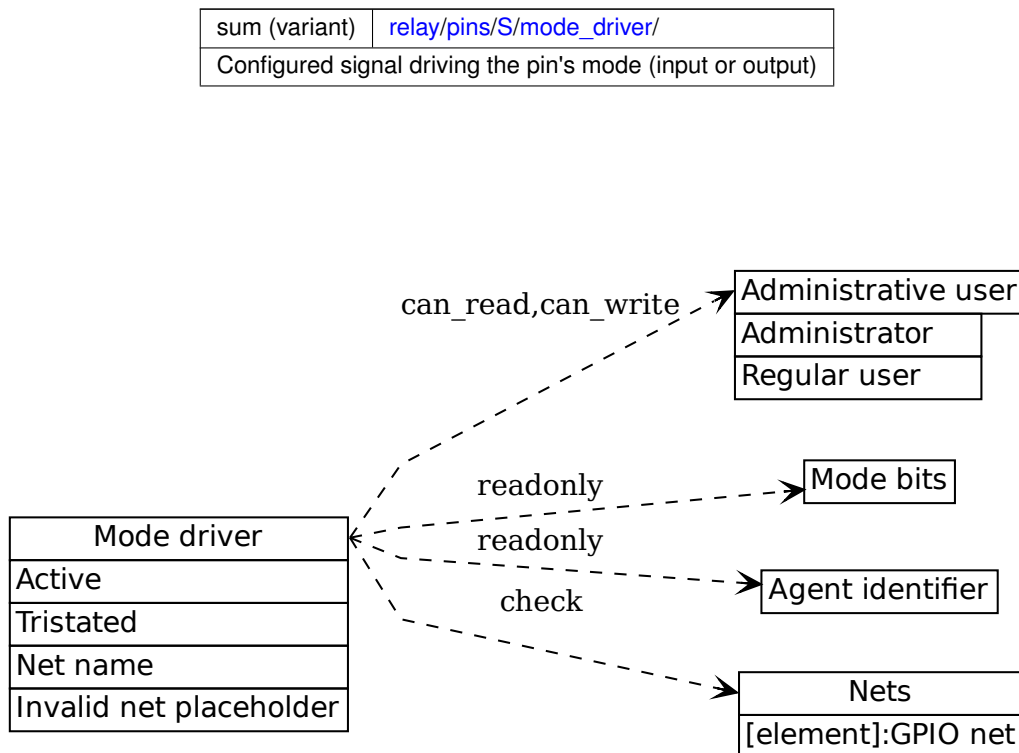
```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵
↵ restapi/relay/pins/:gpio_pin/level_bits/"
```

⇒

7

[Browse more samples](#)

2.48 GPIO pin: Mode driver



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum does not support direct modification if all of the following is true:

- [agent identifier](#) is not equal to relay
- [mode bits](#) is equal to 0

This sum represents a value in persistent storage.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant true	Active	The pin is as active (output) as possible	
constant false	Tristated	The pin is as inactive (input, hi-Z state) as possible	
string	Net name	Name of the net providing the driving value	all of the following is true: • not the value matches $^([.*].*)\$ • nets[the value]
string	Invalid net placeholder	A placeholder for a net that has been deleted or renamed (and always has the logical value false)	the value matches $^net_{\leftrightarrow} deleted:.*$$

Sample uom library write command (note that `_gpio_pin` is a variable):

```
uom.relay.pins[_gpio_pin].mode_driver=true
```

Sample JS request read command (note that `_gpio_pin` is a variable):

```
request.get({url:"relay/pins/"+_gpio_pin+"/mode_driver/"},function(error,response ↵  
↵ ,body) {console.log(body)});
```

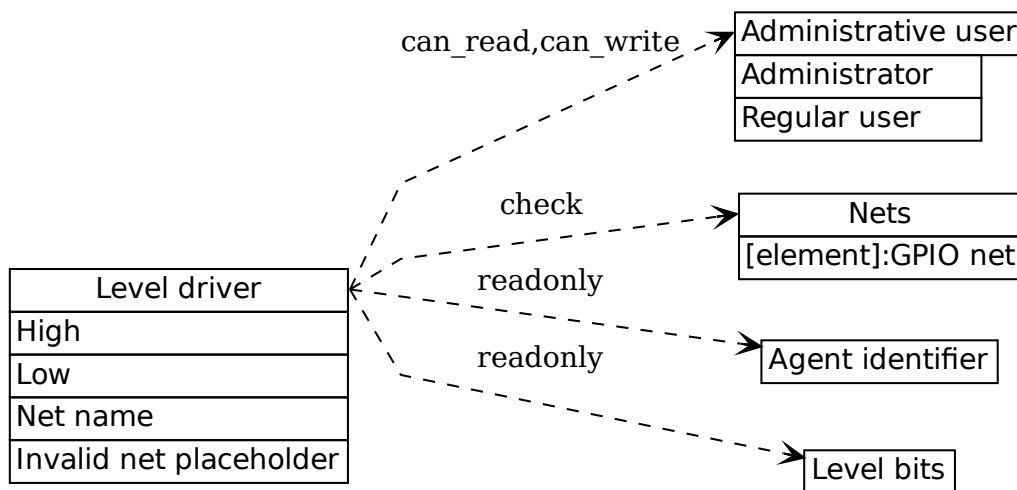
⇒

```
"yrwtwzz0"
```

[Browse more samples](#)

2.49 GPIO pin: Level driver

sum (variant)	relay/pins/S/level_driver/
Configured signal driving the pin's output level	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum does not support direct modification if all of the following is true:

- [agent identifier](#) is not equal to relay
- [level bits](#) is equal to 0

This sum represents a value in persistent storage.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant true	High	The pin is driven as high as possible given the current mode	
constant false	Low	The pin is driven as low as possible given the current mode	
string	Net name	Name of the net providing the driving value	all of the following is true: • not the value matches $^(. .* .*)\$ • nets[the value]
string	Invalid net placeholder	A placeholder for a net that has been deleted or renamed (and always has the logical value false)	the value matches $^net_deleted:.*$$

Sample `curl` read command (note that `:gpio_pin` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/pins/:gpio_pin/level_driver/"
```

⇒

false

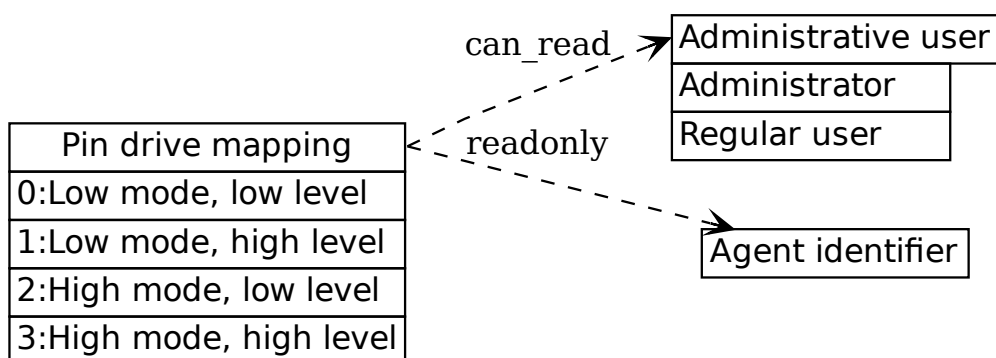
Sample `requests` write command (note that `_gpio_pin` is a variable):

```
requests.put('http://192.168.0.100/restapi/relay/pins/'+_gpio_pin+'/level_driver ↵
↵ /', auth=auth, headers=headers, json=True)
```

[Browse more samples](#)

2.50 GPIO pin: Pin drive mapping

tuple	relay/pins/S/drive_logic_mapping/
Mapping of pin mode and level combinations to resulting pin IEEE1164 logic levels	



Retrieving the value is denied if not [administrative user](#)

This tuple is composite, i.e. is modified as a whole.

This tuple does not support direct modification if [agent identifier](#) is not equal to relay.

This tuple represents a value in persistent storage.

This tuple contains the following items:

1	Low mode, low level
2	Low mode, high level
3	High mode, low level
4	High mode, high level

Sample JS request read command (note that `_gpio_pin` is a variable):

```
request.get({url:"relay/pins/"+_gpio_pin+"/drive_logic_mapping/"},function(error, ↵
    ↵ response,body) {console.log(body)});
```

⇒

```
["Z", "H", "0", "1"]
```

Sample curl read command (note that `:gpio_pin` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/relay/pins/:gpio_pin/drive_logic_mapping/"
```

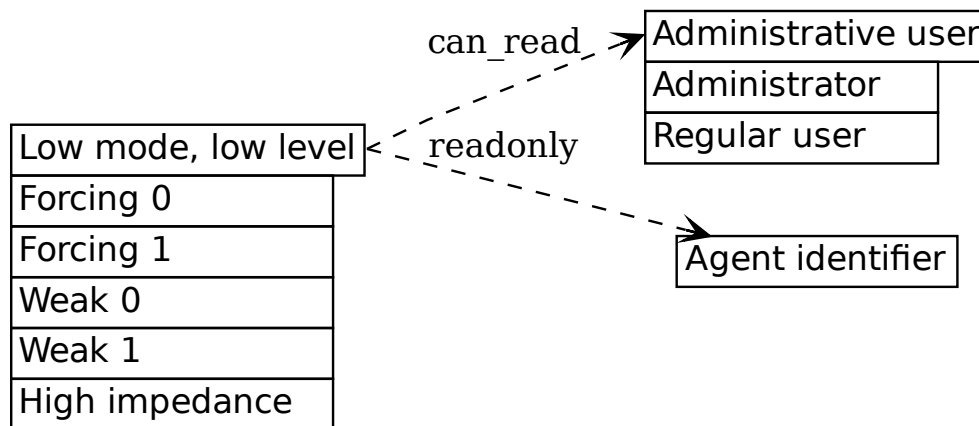
⇒

```
["Z", "H", "0", "1"]
```

[Browse more samples](#)

2.50.1 Low mode, low level

sum (enumerated string)	relay/pins/S/drive_logic_mapping/1/
IEEE1164 logic level when pin is in the minimum mode, minimum level configuration	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification if [agent identifier](#) is not equal to relay.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant "0"	Forcing 0	Strong low signal as good as ground
constant "1"	Forcing 1	Strong high signal as good as power supply voltage
constant "L"	Weak 0	Low signal which is logically 0 but weak (e.g. from a pull-down resistor)
constant "H"	Weak 1	High signal which is logically 1 but weak (e.g. from a pull-up resistor)
constant "Z"	High impedance	Pin pulled neither up nor down, signal defined by external circuitry

Sample `requests` read command (note that `_gpio_pin` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/relay/pins/'+_gpio_pin+'/' + ↵
               ↵ drive_logic_mapping/0/', auth=auth, headers=headers).json())
```

⇒
'Z'

Sample `uom` library read command (note that `_gpio_pin` is a variable):

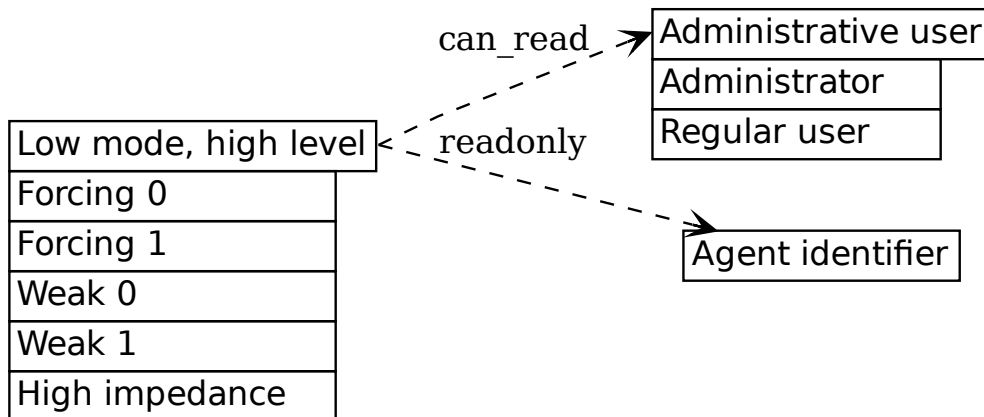
```
print(uom.dump(uom.relay.pins[_gpio_pin].drive_logic_mapping[1]))
```

⇒
"Z"

[Browse more samples](#)

2.50.2 Low mode, high level

sum (enumerated string)	relay/pins/S/drive_logic_mapping/2/
IEEE1164 logic level when pin is in the minimum mode, maximum level configuration	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification if [agent identifier](#) is not equal to relay.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant "0"	Forcing 0	Strong low signal as good as ground
constant "1"	Forcing 1	Strong high signal as good as power supply voltage
constant "L"	Weak 0	Low signal which is logically 0 but weak (e.g. from a pull-down resistor)
constant "H"	Weak 1	High signal which is logically 1 but weak (e.g. from a pull-up resistor)
constant "Z"	High impedance	Pin pulled neither up nor down, signal defined by external circuitry

Sample `requests` read command (note that `_gpio_pin` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/relay/pins/'+_gpio_pin+'/' ↵
    ↵ drive_logic_mapping/1/', auth=auth, headers=headers) .json())
```

⇒

'Z'

Sample CLI read command (note that `gpio_pin` is a variable):

```
uom get "relay/pins/${gpio_pin}/drive_logic_mapping/1"
```

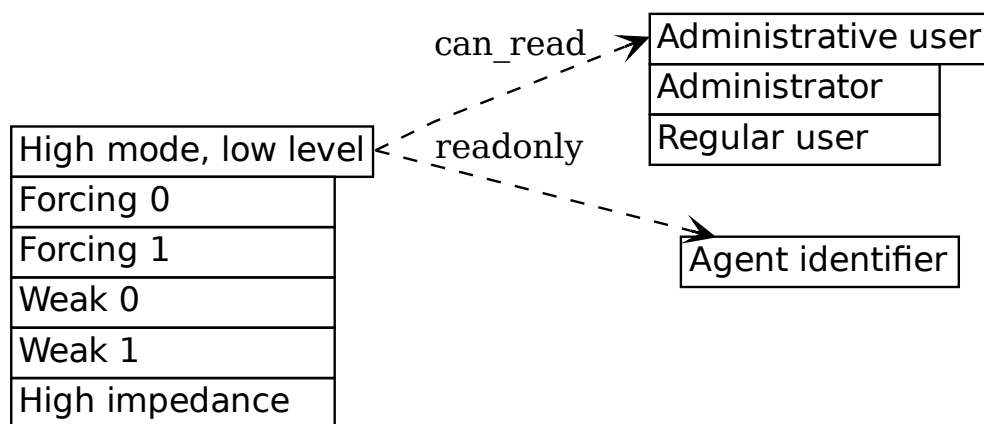
⇒

"Z"

[Browse more samples](#)

2.50.3 High mode, low level

sum (enumerated string)	relay/pins/S/drive_logic_mapping/3/
IEEE1164 logic level when pin is in the maximum mode, minimum level configuration	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification if [agent identifier](#) is not equal to relay.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant "0"	Forcing 0	Strong low signal as good as ground
constant "1"	Forcing 1	Strong high signal as good as power supply voltage
constant "L"	Weak 0	Low signal which is logically 0 but weak (e.g. from a pull-down resistor)
constant "H"	Weak 1	High signal which is logically 1 but weak (e.g. from a pull-up resistor)
constant "Z"	High impedance	Pin pulled neither up nor down, signal defined by external circuitry

Sample CLI read command (note that `gpio_pin` is a variable):

```
uom get "relay/pins/${gpio_pin}/drive_logic_mapping/2"
```

⇒

"0"

Sample `curl` read command (note that `:gpio_pin` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/pins/:gpio_pin/drive_logic_mapping/2/"
```

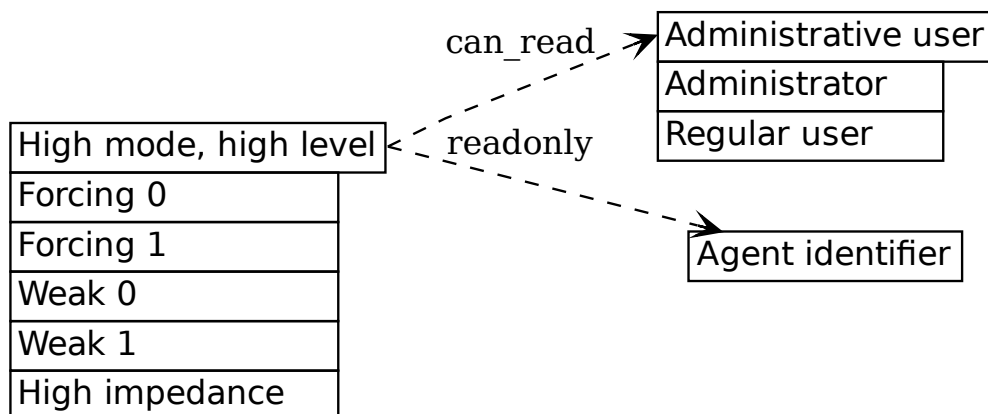
⇒

"0"

[Browse more samples](#)

2.50.4 High mode, high level

sum (enumerated string)	relay/pins/S/drive_logic_mapping/4/
IEEE1164 logic level when pin is in the maximum mode, maximum level configuration	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification if [agent identifier](#) is not equal to relay.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant "0"	Forcing 0	Strong low signal as good as ground
constant "1"	Forcing 1	Strong high signal as good as power supply voltage
constant "L"	Weak 0	Low signal which is logically 0 but weak (e.g. from a pull-down resistor)
constant "H"	Weak 1	High signal which is logically 1 but weak (e.g. from a pull-up resistor)
constant "Z"	High impedance	Pin pulled neither up nor down, signal defined by external circuitry

Sample requests read command (note that `_gpio_pin` is a variable):

```
print (requests.get('http://192.168.0.100/restapi/relay/pins/'+_gpio_pin+'/format'
↔ ↪ /', auth=auth, headers=headers).json())
```

⇒

```
'uint'
```

Sample CLI read command (note that `gpio_pin` is a variable):

```
uom get "relay/pins/${gpio_pin}/format"
```

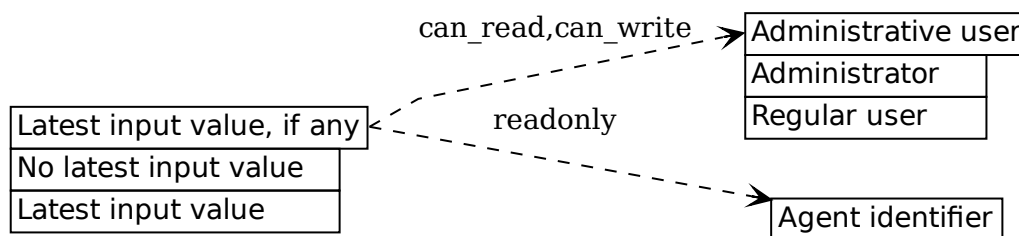
⇒

```
null
```

[Browse more samples](#)

2.52 GPIO pin: Latest input value, if any

sum (optional number)	relay/pins/S/latest_input_value/
Latest pin input value as reported by a net, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

Using the sum as a field for indexing into the grandparent collection is denied

This sum does not support direct modification if [agent identifier](#) is not equal to relay.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant null	No latest input value	Input value not monitored so no latest value available
number	Latest input value	Latest pin input value as reported by a net

Sample JS request read command (note that `_gpio_pin` is a variable):

```
request.get({url:"relay/pins/"+_gpio_pin+"/latest_input_value/"},function(error, ↵
  ↵ response,body) {console.log(body)});
```

⇒

null

Sample CLI read command (note that `gpio_pin` is a variable):

```
uom get "relay/pins/${gpio_pin}/latest_input_value"
```

⇒

null

[Browse more samples](#)

2.53 Net changes: Removed nets

array	relay/pins/S/configure_input_tracking/results: 1/1/
List of nets removed to fulfill the configuration result	

This array does not correspond to an actual resource.

This array contains [Removed net](#) elements.

2.53.1 Removed net

string	relay/pins/S/configure_input_tracking/results: 1/1/N/
Identifier of the removed net	

This string does not correspond to an actual resource.

2.54 Net changes: Added nets

array	relay/pins/S/configure_input_tracking/results: 1/2/
List of nets added to fulfill the configuration result	

This array does not correspond to an actual resource.

This array contains [Added net](#) elements.

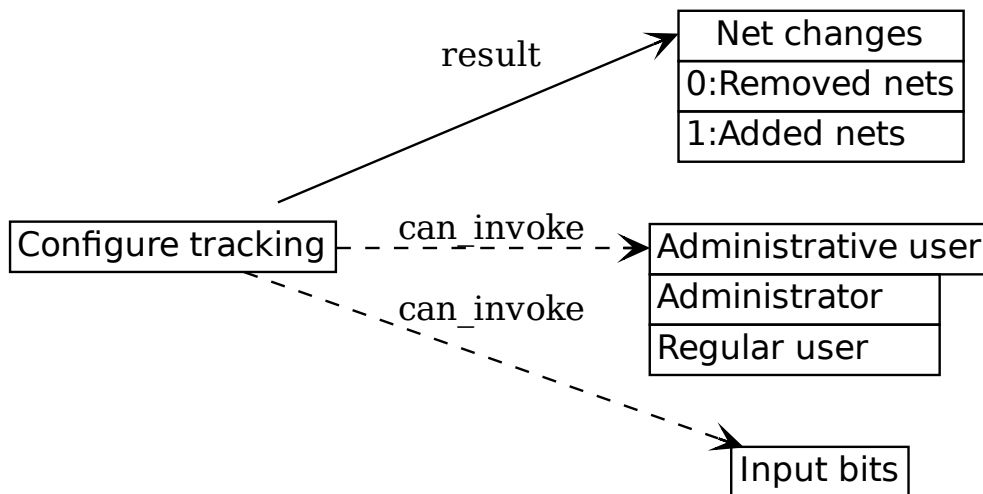
2.54.1 Added net

string	relay/pins/S/configure_input_tracking/results: 1/2/N/
Identifier of the added net	

This string does not correspond to an actual resource.

2.55 GPIO pin: Configure tracking

call	relay/pins/S/configure_input_tracking/
Set method of reporting the pin's value	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [input bits](#) is equal to 0

The call accepts the following arguments:

1. Pin tracking configuration mode: None, Pull or Push

The call returns the following results:

1. Net changes: (array of "string",array of "string")

Sample `curl` invocation (note that `:gpio_pin` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
↵ "Accept: application/json" --data-binary "[\"pull\"]" "http ↵
↵ ://192.168.0.100/restapi/relay/pins/:gpio_pin/configure_input_tracking/"
```


⇒

[[], []]

Sample CLI invocation (note that `gpio_pin` is a variable):

```
uom invoke "relay/pins/${gpio_pin}/configure_input_tracking" "\"push\""
```

⇒

[[], []]

[Browse more samples](#)

2.55.1 Pin tracking configuration mode

sum (optional enumerated string)	relay/pins/S/configure_input_tracking/arguments: 1/
Desired pin tracking configuration mode	

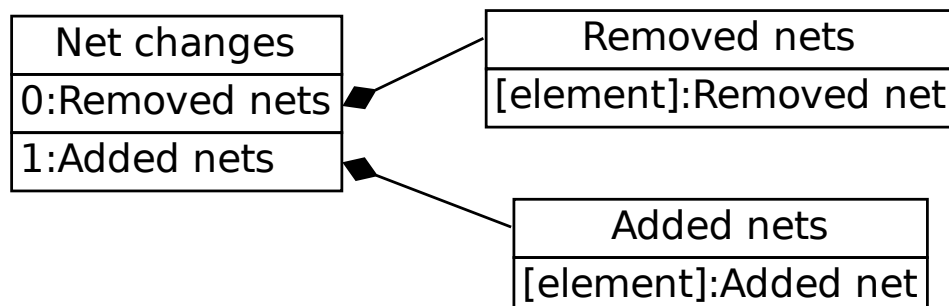
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	Latest pin value is not updated
constant "pull"	Pull	Latest pin value is updated periodically
constant "push"	Push	Latest pin value is reported when changed

2.55.2 Net changes

tuple	relay/pins/S/configure_input_tracking/results: 1/
Changes in net structure performed by the call	



This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Removed nets
2	Added nets

See also [Net changes: Removed nets](#)

See also [Net changes: Added nets](#)

2.56 Net changes: Removed nets

array	relay/pins/S/configure_mode_driver/results: 1/1/
List of nets removed to fulfill the configuration result	

This array does not correspond to an actual resource.

This array contains [Removed net](#) elements.

2.56.1 Removed net

string	relay/pins/S/configure_mode_driver/results: 1/1/N/
Identifier of the removed net	

This string does not correspond to an actual resource.

2.57 Net changes: Added nets

array	relay/pins/S/configure_mode_driver/results: 1/2/
List of nets added to fulfill the configuration result	

This array does not correspond to an actual resource.

This array contains [Added net](#) elements.

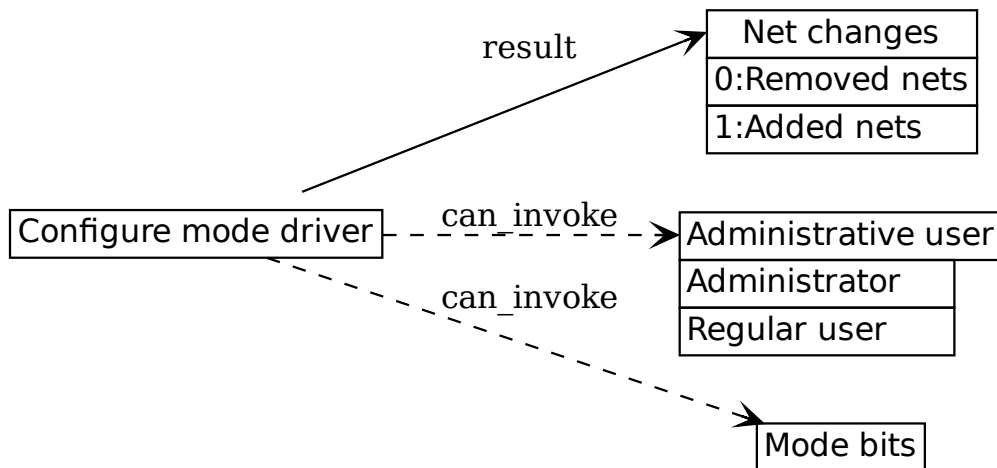
2.57.1 Added net

string	relay/pins/S/configure_mode_driver/results: 1/2/N/
Identifier of the added net	

This string does not correspond to an actual resource.

2.58 GPIO pin: Configure mode driver

call	relay/pins/S/configure_mode_driver/
Set pin's mode (input or output) driver	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [mode bits](#) is equal to 0

The call accepts the following arguments:

1. Desired mode driver: High, Low or Net code

The call returns the following results:

1. Net changes: (array of "string",array of "string")

Sample CLI invocation (note that `gpio_pin` is a variable):

```
uom invoke "relay/pins/${gpio_pin}/configure_mode_driver" "true"
```

⇒

```
[[], []]
```

Sample JS request invocation (note that `_gpio_pin` is a variable):

```
request.post({url:"relay/pins/"+_gpio_pin+"/configure_mode_driver/",body:["apin ↵
↵ ["dout66\"]]});
```

⇒

```
[[], ["qgfbwxbgqzevum60"]]
```

[Browse more samples](#)

2.58.1 Desired mode driver

sum (variant)	relay/pins/S/configure_mode_driver/arguments: 1/
Desired signal driving the pin's mode (input or output)	

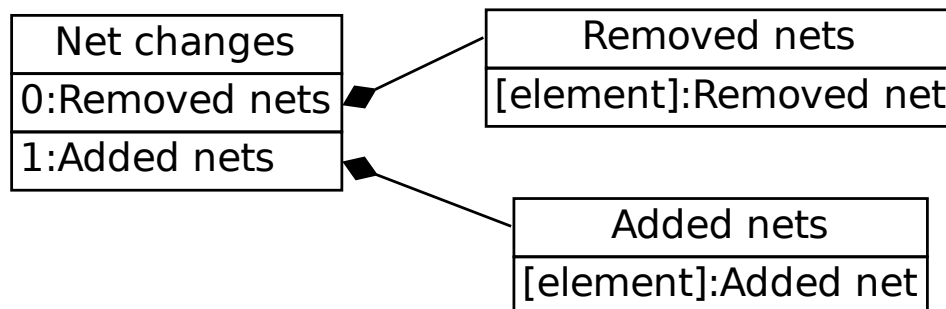
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	High	The pin is driven as high as possible given the current mode
constant false	Low	The pin is driven as low as possible given the current mode
string	Net code	Code of the net providing the driving value

2.58.2 Net changes

tuple	relay/pins/S/configure_mode_driver/results: 1/
Changes in net structure performed by the call	



This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Removed nets
2	Added nets

See also [Net changes: Removed nets](#)

See also [Net changes: Added nets](#)

2.59 Net changes: Removed nets

array	relay/pins/S/configure_level_driver/results: 1/1/
List of nets removed to fulfill the configuration result	

This array does not correspond to an actual resource.

This array contains [Removed net](#) elements.

2.59.1 Removed net

string	relay/pins/S/configure_level_driver/results: 1/1/N/
Identifier of the removed net	

This string does not correspond to an actual resource.

2.60 Net changes: Added nets

array	relay/pins/S/configure_level_driver/results: 1/2/
List of nets added to fulfill the configuration result	

This array does not correspond to an actual resource.

This array contains [Added net](#) elements.

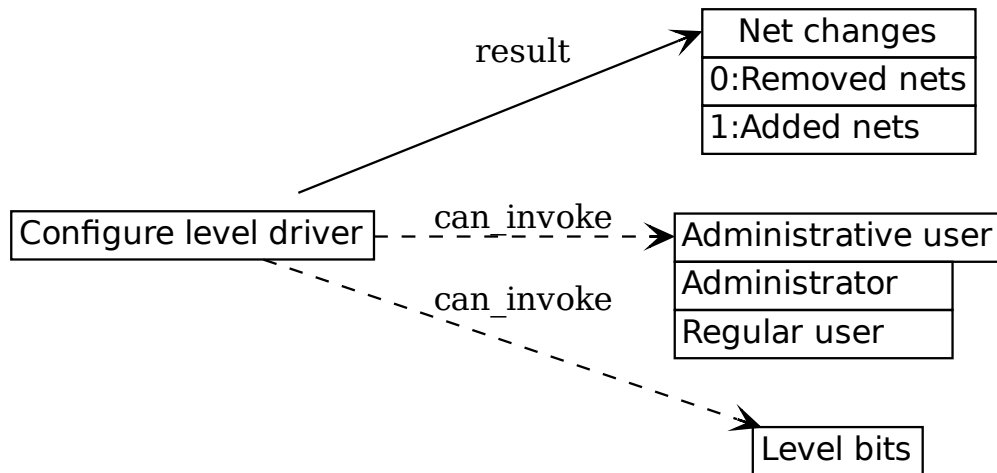
2.60.1 Added net

string	relay/pins/S/configure_level_driver/results: 1/2/N/
Identifier of the added net	

This string does not correspond to an actual resource.

2.61 GPIO pin: Configure level driver

call	relay/pins/S/configure_level_driver/
Set pin's output level driver	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [level bits](#) is equal to 0

The call accepts the following arguments:

1. Desired level driver: High, Low or Net code

The call returns the following results:

1. Net changes: (array of "string",array of "string")

Sample CLI invocation (note that `gpio_pin` is a variable):

```
uom invoke "relay/pins/${gpio_pin}/configure_level_driver" "\"apin[\\\\"aio23" ↵
↵ \\\"]\""
```

⇒

```
[["rscbbf71"],["lz0"]]
```

Sample `requests` invocation (note that `_gpio_pin` is a variable):

```
print(requests.post('http://192.168.0.100/restapi/relay/pins/'+_gpio_pin+'/' ↵
↵ configure_level_driver/', auth=auth, headers=headers, json=['apin["dout4"]']). ↵
↵ json())
```

⇒

```
[{}, ['wnyx44']]
```

[Browse more samples](#)

2.61.1 Desired level driver

sum (variant)	relay/pins/S/configure_level_driver/arguments: 1/
Desired signal driving the pin's output level	

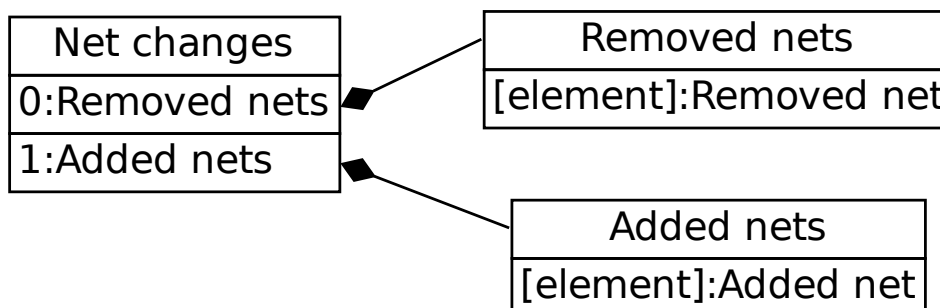
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	High	The pin is driven as high as possible given the current mode
constant false	Low	The pin is driven as low as possible given the current mode
string	Net code	Code of the net providing the driving value

2.61.2 Net changes

tuple	relay/pins/S/configure_level_driver/results: 1/
Changes in net structure performed by the call	



This tuple does not correspond to an actual resource.

This tuple contains the following items:

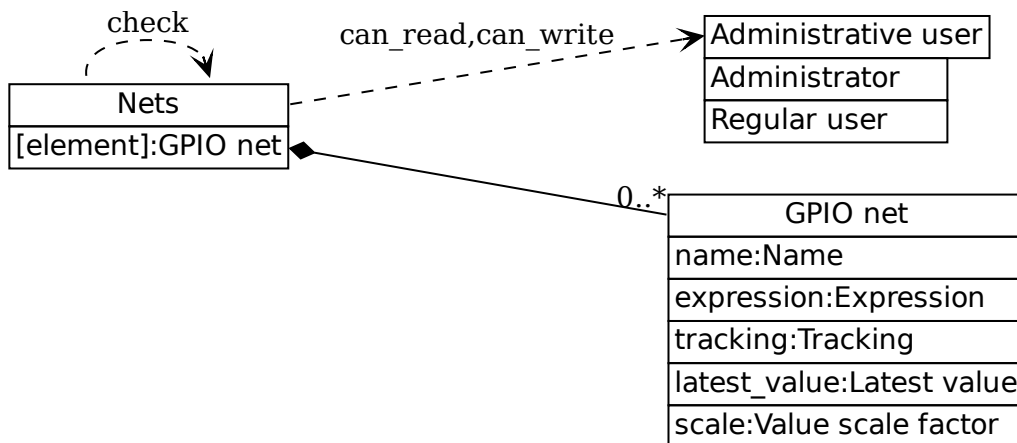
1	Removed nets
2	Added nets

See also [Net changes: Removed nets](#)

See also [Net changes: Added nets](#)

2.62 Nets

map	relay/nets/
Nets controlling the GPIO pins	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map represents a value in persistent storage.

This map contains [GPIO net](#) elements.

Sample JS request read command:

```
request.get({url:"relay/nets/"},function(error,response,body) {console.log(body) ↵
↵ });
```

⇒

Sample uom library read command:

```
print(uom.dump(uom.relay.nets))
```

⇒

[Browse more samples](#)

See also [Nets: GPIO net](#)

2.63 Nets: GPIO net

object	relay/nets/S/
Object representing a state of a GPIO net signal	

This object contains the following items:

name	Name
expression	Expression
tracking	Tracking
latest_value	Latest value
scale	Value scale factor

Sample `requests` deletion command (note that `_gpio_net` is a variable):

```
requests.delete('http://192.168.0.100/restapi/relay/nets/'+_gpio_net+'/', auth= ↵
↵ auth, headers=headers)
```

Sample `curl` read command (note that `:gpio_net` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/nets/:gpio_net/"
```

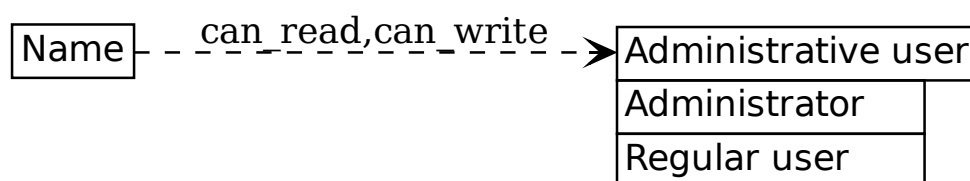
⇒

```
{"name": "phzte11", "scale": 256, "latest_value": 2, "tracking": null, "expression": "not ↵
↵ apin[\"ain2\"]"}
```

[Browse more samples](#)

2.63.1 Name

string	relay/nets/S/name/
User-visible net name	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample `uom` library write command (note that `_gpio_net` is a variable):

```
uom.relay.nets[_gpio_net].name="m93"
```

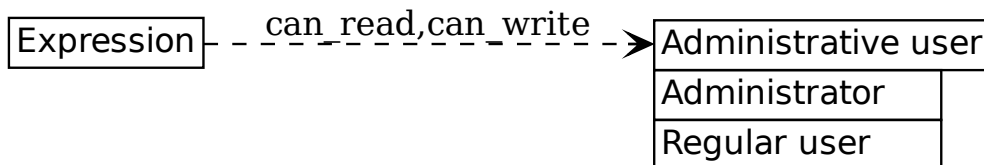
Sample `curl` write command (note that `:gpio_net` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"u71\"" "http ↵
↵ ://192.168.0.100/restapi/relay/nets/:gpio_net/name/"
```

[Browse more samples](#)

2.63.2 Expression

string	relay/nets/S/expression/
Expression governing the net's value	



The value contains Lua source (has native MIME type `text/x-lua`).

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample `requests` read command (note that `_gpio_net` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/relay/nets/'+_gpio_net+'/ ↵
↵ expression/', auth=auth, headers=headers).json())
```

⇒

```
'iff((apin["aio5"] == net["on10"]), iff(anet["kwz1"], pin["dout14"], net[" ↵
↵ trrpfuuwutient4"]), iff(anet["ymrc7"], apin["dio8"], pin["aout0"]))'
```

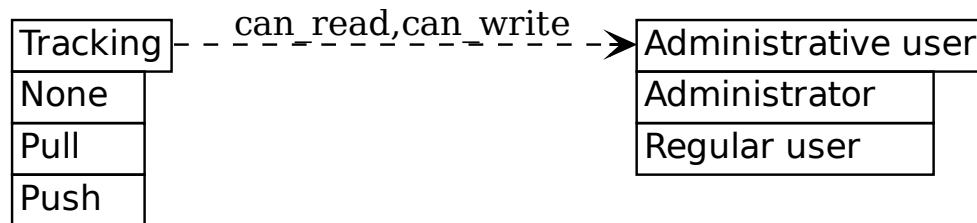
Sample `requests` write command (note that `_gpio_net` is a variable):

```
requests.put('http://192.168.0.100/restapi/relay/nets/'+_gpio_net+'/expression/', ↵
↵ auth=auth, headers=headers, json='anet["nmucj87"]')
```

[Browse more samples](#)

2.63.3 Tracking

sum (optional enumerated string)	relay/nets/S/tracking/
Method of reporting the net's value	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	Net value is not updated
constant "pull"	Pull	Net value is updated periodically
constant "push"	Push	Net value is reported when changed

Sample CLI read command (note that `gpio_net` is a variable):

```
uom get "relay/nets/${gpio_net}/tracking"
```

⇒

```
"push"
```

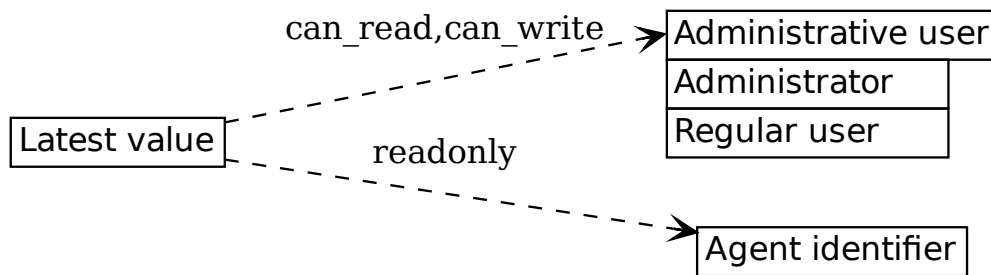
Sample uom library write command (note that `_gpio_net` is a variable):

```
uom.relay.nets[_gpio_net].tracking="pull"
```

[Browse more samples](#)

2.63.4 Latest value

number	relay/nets/S/latest_value/
Latest net value	



The value is unconditionally set to 0 on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

Using the number as a field for indexing into the grandparent collection is denied

This number does not support direct modification if [agent identifier](#) is not equal to relay.

Sample `curl` read command (note that `:gpio_net` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/nets/:gpio_net/latest_value/"
```

⇒

1

Sample `uom` library read command (note that `_gpio_net` is a variable):

```
print(uom.dump(uom.relay.nets[_gpio_net].latest_value))
```

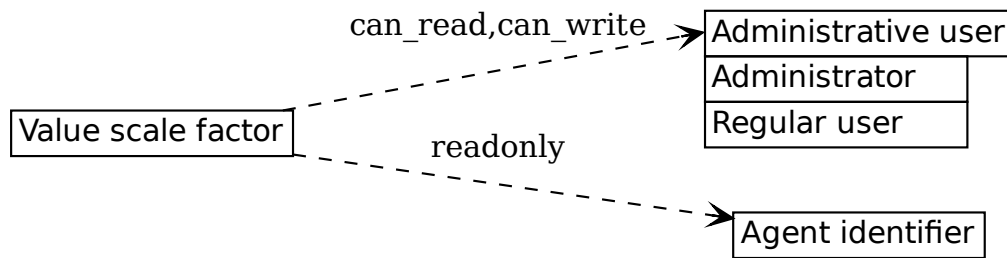
⇒

12

[Browse more samples](#)

2.63.5 Value scale factor

number	relay/nets/S/scale/
The factor by which the latest value must be divided to obtain the corresponding numeric value	



The value is unconditionally set to 1 on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

Using the number as a field for indexing into the grandparent collection is denied

This number does not support direct modification if [agent identifier](#) is not equal to relay.

Sample `requests` read command (note that `_gpio_net` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/relay/nets/'+_gpio_net+'/scale' ↵
↵ '/', auth=auth, headers=headers).json())
```

⇒

16

Sample `curl` read command (note that `:gpio_net` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/nets/:gpio_net/scale/"
```

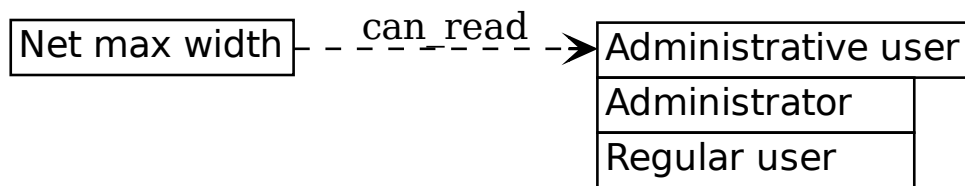
⇒

4

[Browse more samples](#)

2.64 Net max width

number	relay/net_max_bits/
Max net width in bits	



The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

This number does not support direct modification.

Sample uom library read command:

```
print(uom.dump(uom.relay.net_max_bits))
```

⇒

28

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/net_max_bits/"
```

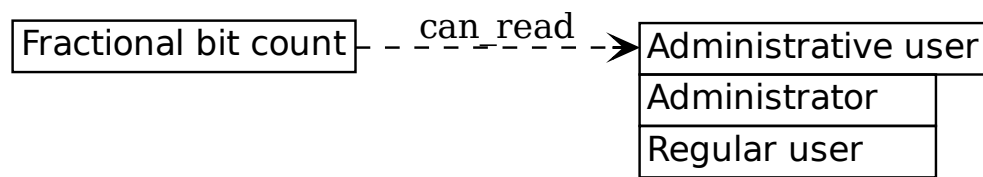
⇒

28

[Browse more samples](#)

2.65 Fractional bit count

number	relay/net_fractional_bits/
Number of fractional bits in fixed-point net values	



The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

This number does not support direct modification.

Sample JS request read command:

```
request.get({url:"relay/net_fractional_bits/"},function(error,response,body) {
  ↵ console.log(body) });
```

⇒

1

Sample CLI read command:

```
uom get "relay/net_fractional_bits"
```

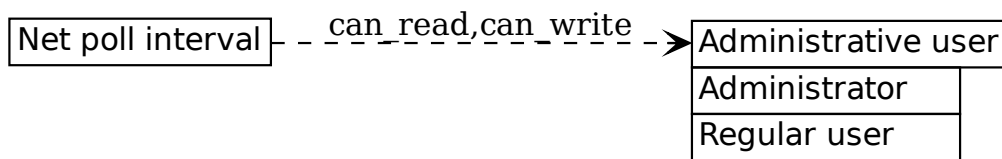
⇒

5

[Browse more samples](#)

2.66 Net poll interval

number	relay/net_poll_interval/
Time between net value fetches (for nets configured for periodic polling)	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/net_poll_interval/"
```

⇒

7

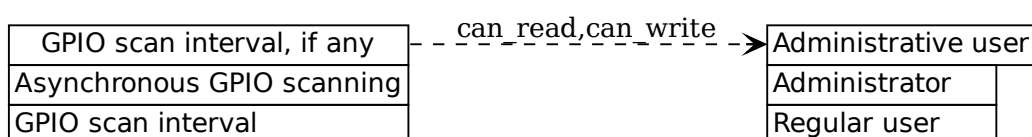
Sample CLI write command:

```
uom set "relay/net_poll_interval" "4"
```

[Browse more samples](#)

2.67 GPIO scan interval, if any

sum (number)	relay/gpio_scan_interval/
Target time between GPIO scans, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant 0	Asynchronous GPIO scanning	GPIO scans occur not at a particular interval, but rather as often as possible	
number	GPIO scan interval	Target time between GPIO scans	the value is greater than 0

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/gpio_scan_interval/"
```

⇒

0.02

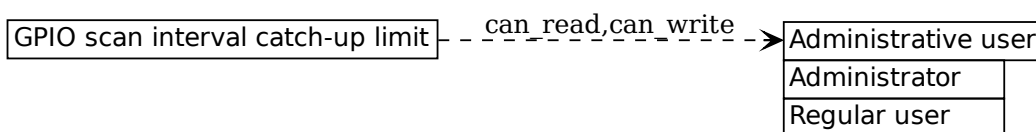
Sample CLI write command:

```
uom set "relay/gpio_scan_interval" "0.01"
```

[Browse more samples](#)

2.68 GPIO scan interval catch-up limit

number	relay/scan_catch_up_limit/
The maximum number of end-to-end-consecutive scans to catch up with the desired interval (has no effect if GPIO scanning is asy	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/scan_catch_up_limit/"
```

⇒

8

Sample `uom` library read command:

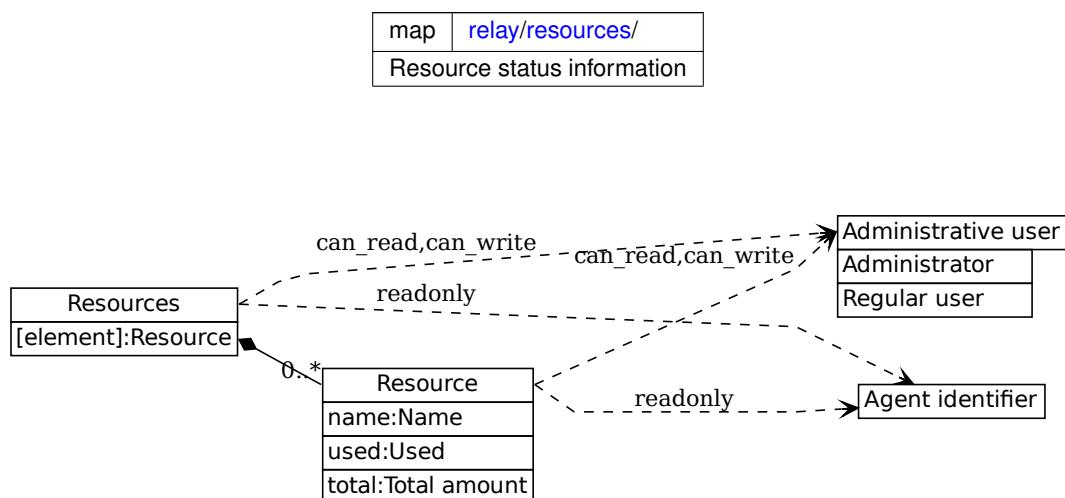
```
print(uom.dump(uom.relay.scan_catch_up_limit))
```

⇒

7

[Browse more samples](#)

2.69 Resources



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map does not support direct modification if [agent identifier](#) is not equal to relay.

This map contains [Resource](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/resources/"
```

⇒

```
{ "nw0s": {"used": 0, "total": 1, "name": "nw0 count"}, "s32s": {"used": 0, "total": 1, "name ↵
↵ ": "s32 count"}}
```

Sample JS request read command:

```
request.get({url: "relay/resources/"}, function(error, response, body) {console.log( ↵
↵ body)});
```

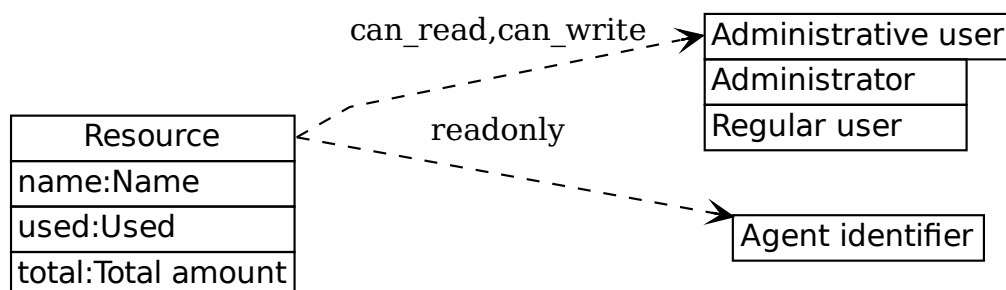
⇒

[Browse more samples](#)

See also [Resources: Resource](#)

2.70 Resources: Resource

object	relay/resources/S/
Resource use status	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This object does not support direct modification if [agent identifier](#) is not equal to relay.

This object contains the following items:

name	Name
used	Used
total	Total amount

Sample JS request read command (note that `_resource` is a variable):

```
request.get ({url:"relay/resources/"+_resource+"/"}, function (error, response, body) ↵
    ↵ {console.log (body) });
```

⇒

```
{ "used":3, "total":6, "name":"ri73 count" }
```

Sample uom library read command (note that `_resource` is a variable):

```
print (uom.dump (uom.relay.resources [_resource]))
```

⇒

```
{name="ffu94 count",total=4,used=3}
```

[Browse more samples](#)

2.70.1 Name

string	relay/resources/S/name/
Name of the resource	

Sample JS request write command (note that `_resource` is a variable):

```
request.put ({url:"relay/resources/"+_resource+"/name/",body:"hezgo50 count"});
```

Sample uom library write command (note that `_resource` is a variable):

```
uom.relay.resources [_resource].name="tku70 count"
```

[Browse more samples](#)

2.70.2 Used

number	relay/resources/S/used/
Amount of the resource currently in use	

The value is subject to the following constraints: [the value](#) is greater or equal to 0

Sample JS request read command (note that `_resource` is a variable):

```
request.get ({url:"relay/resources/"+_resource+"/used/"}, function (error, response, ↵
    ↵ body) {console.log (body) });
```

⇒

```
0
```

Sample uom library read command (note that `_resource` is a variable):

```
print (uom.dump (uom.relay.resources [_resource].used) )
```

⇒

1

[Browse more samples](#)

2.70.3 Total amount

number	relay/resources/S/total/
Total amount of the resource	

The value is subject to the following constraints: [the value](#) is greater or equal to 0

Sample CLI read command (note that `resource` is a variable):

```
uom get "relay/resources/${resource}/total"
```

⇒

6

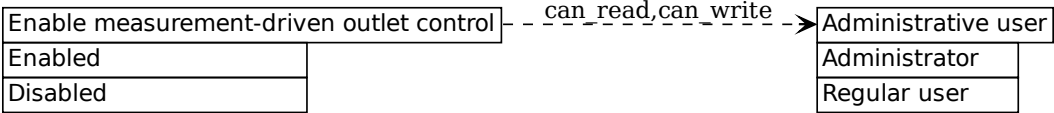
Sample `curl` write command (note that `:resource` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵  
↵ json" -H "Accept: application/json" --data-binary "7" "http ↵  
↵ ://192.168.0.100/restapi/relay/resources/:resource/total/"
```

[Browse more samples](#)

2.71 Enable measurement-driven outlet control

sum (boolean)	relay/fuses_enabled/
Allow use of measurement results to conditionally switch off outlets, enabling safety shutdown and correct power loss operation	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum is expected to be visible to advanced users only.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI read command:

```
uom get "relay/fuses_enabled"
```

⇒

```
false
```

Sample requests read command:

```
print (requests.get('http://192.168.0.100/restapi/relay/fuses_enabled/', auth=auth, ↵
    ↵ headers=headers).json())
```

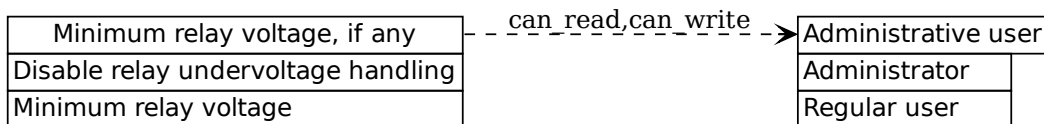
⇒

```
False
```

[Browse more samples](#)

2.72 Minimum relay voltage, if any

sum (optional number)	relay/min_relay_voltage/
Minimum relay voltage below which it cannot drive outlets and they must be considered off, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum is expected to be visible to advanced users only.

This sum can assume the following values:

constant null	Disable relay undervoltage handling	Ignore relay undervoltage. This is unsafe!	
number	Minimum relay voltage	Minimum relay voltage below which it cannot drive outlets and they must be considered off	the value is greater than 0

Sample JS request read command:

```
request.get({url:"relay/min_relay_voltage/"},function(error,response,body) {
  ↪ console.log(body) });
```

⇒

8

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/relay/min_relay_voltage/',auth=
  ↪ auth,headers=headers).json())
```

⇒

8

[Browse more samples](#)

2.73 Measurement-driven relatch timeout, if any

sum (optional number)	relay/fuse_relatch/
Time to hold outlets off after switching them off due to measurement limits being hit, if any	

Measurement-driven relatch timeout, if any	can_read,can_write	Administrative user
Latch OFF		Administrator
Measurement-driven relatch timeout		Regular user

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Latch OFF	Switch outlets off until the user takes action	
number	Measurement-driven relatch timeout	Time to hold outlets off after switching them off due to measurement limits being hit	the value is greater than 0

Sample uom library write command:

```
uom.relay.fuse_relatch=6
```

Sample JS request read command:

```
request.get({url:"relay/fuse_relatch/"},function(error,response,body) {console.log(body)});
```

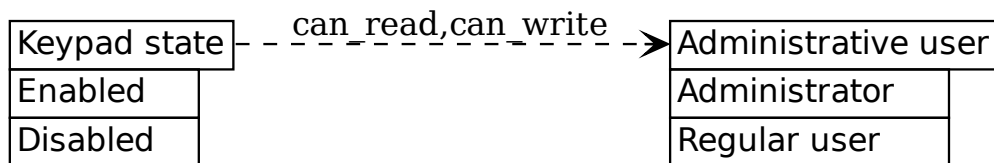
⇒

3

[Browse more samples](#)

2.74 Keypad state

sum (boolean)	relay/keypad_enabled/
Flag indicating whether keypad is enabled or disabled	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI write command:

```
uom set "relay/keypad_enabled" "true"
```

Sample uom library read command:

```
print(uom.dump(uom.relay.keypad_enabled))
```

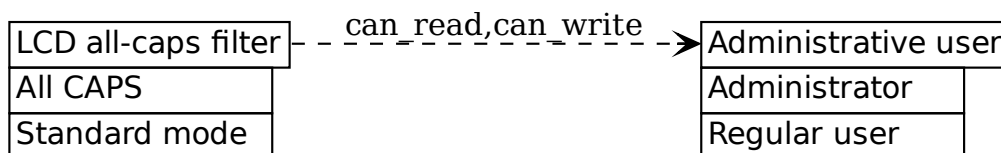
⇒

true

[Browse more samples](#)

2.75 LCD all-caps filter

sum (boolean)	relay/all_caps/
Flag enabling all-caps display of text	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	All CAPS	All LCD strings are displayed in capital letters
constant false	Standard mode	LCD strings are displayed as configured without capitalization

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
↪ json" -H "Accept: application/json" --data-binary "true" "http
↪ ://192.168.0.100/restapi/relay/all_caps/"
```

Sample `requests` read command:

```
print (requests.get('http://192.168.0.100/restapi/relay/all_caps/', auth=auth,
↪ headers=headers).json())
```

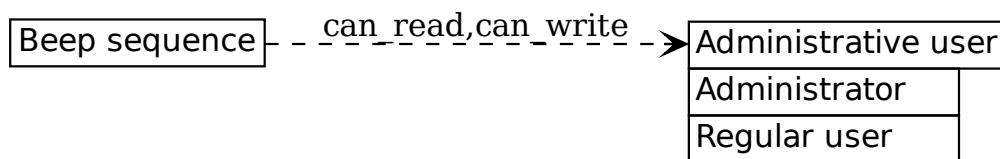
⇒

True

[Browse more samples](#)

2.76 Beep sequence

string	relay/beep_sequence/
Signal sequence for beeper activation	



The value is subject to the following constraints: the value matches `^[01._]*$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

Sample JS request read command:

```
request.get({url:"relay/beep_sequence/"},function(error,response,body){console.log(body)});
```

⇒

"0"

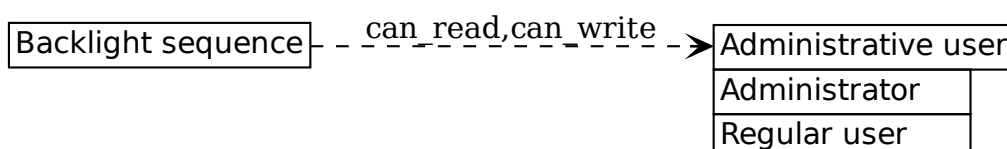
Sample CLI write command:

```
uom set "relay/beep_sequence" "\"0\""
```

[Browse more samples](#)

2.77 Backlight sequence

string	relay/backlight_sequence/
Signal sequence for backlight blinking	



The value is subject to the following constraints: the value matches `^[01._]*$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/backlight_sequence/"
```

⇒

"0"

Sample `uom` library write command:

```
uom.relay.backlight_sequence="0"
```

[Browse more samples](#)

2.78 LCD column count

number	relay/lcd_columns/
Number of LCD columns	

The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater or equal to 0

This number does not support direct modification.

This number represents a value in persistent storage.

Sample `JS request` read command:

```
request.get({url:"relay/lcd_columns/"},function(error,response,body) {console.log ↵
↵ (body)});
```

⇒

16

Sample `CLI` read command:

```
uom get "relay/lcd_columns"
```

⇒

16

[Browse more samples](#)

2.79 LCD row count

number	relay/lcd_rows/
Number of LCD rows	

The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater or equal to 0

This number does not support direct modification.

This number represents a value in persistent storage.

Sample JS request read command:

```
request.get({url:"relay/lcd_rows/"},function(error,response,body){console.log(↵  
↵ body)});
```

⇒

2

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵  
↵ restapi/relay/lcd_rows/"
```

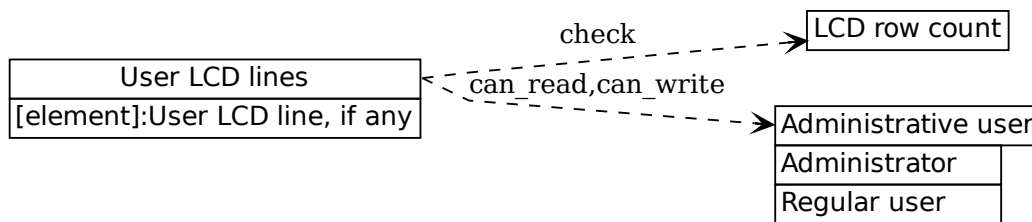
⇒

2

[Browse more samples](#)

2.80 User LCD lines

array	relay/user_lines/
Array of strings to override LCD lines with, from top to bottom	



The value is subject to the following constraints: length of [the value](#) is equal to [LCD row count](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array contains [User LCD line, if any](#) elements.

Sample JS request read command:

```
request.get({url:"relay/user_lines/"},function(error,response,body){console.log(↵
↵ body)});
```

⇒

```
[null,null]
```

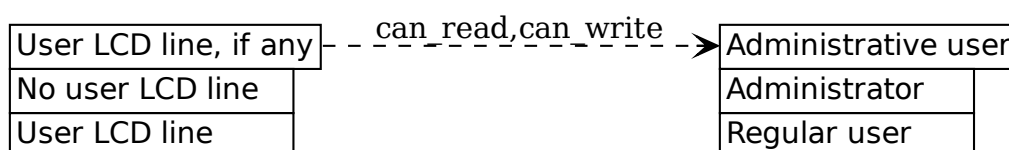
Sample JS request user LCD line, if any creation command:

```
request.post({url:"relay/user_lines/",body:null});
```

[Browse more samples](#)

2.80.1 User LCD line, if any

sum (optional string)	relay/user_lines/N/
The line to override the corresponding line of the LCD output with, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

Changes to this sum may have an effect besides setting value.

This sum can assume the following values:

constant null	No user LCD line	Do not override the corresponding line of the ordinary LCD output
string	User LCD line	The line to override the corresponding line of the LCD output with

Sample `curl` read command (note that `:user_lcd_line__if_any_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/user_lines/:user_lcd_line__if_any_index/"
```

⇒

null

Sample CLI write command (note that `user_lcd_line__if_any_index` is a variable):

```
uom set "relay/user_lines/${user_lcd_line__if_any_index}" "null"
```

[Browse more samples](#)

2.81 User message force display timeout, if any

sum (optional number)	relay/user_message_force_timeout/
Time during which the user script LCD message always overrides ordinary LCD output, if any	

User message force display timeout, if any	--can_read,can_write-->	Administrative user
Always force user message		Administrator
User message force display timeout		Regular user

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Always force user message	The user message always overrides ordinary LCD output	
number	User message force display timeout	Time during which the user script LCD message always overrides ordinary LCD output	the value is greater or equal to 0

Sample JS request read command:

```
request.get({url:"relay/user_message_force_timeout/"},function(error,response,↵
↵ body) {console.log(body)});
```

⇒

null

Sample CLI read command:

```
uom get "relay/user_message_force_timeout"
```

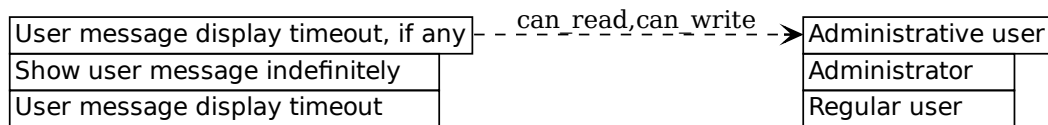
⇒

0

[Browse more samples](#)

2.82 User message display timeout, if any

sum (optional number)	relay/user_message_timeout/
Time after which the user script LCD message is replaced by ordinary LCD output even if nothing else happens, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Show user message indefinitely	The user message stays on LCD until ordinary LCD output changes	
number	User message display timeout	Time after which the user script LCD message is replaced by ordinary LCD output even if nothing else happens	the value is greater or equal to 0

Sample uom library write command:

```
uom.relay.user_message_timeout=3
```

Sample uom library read command:

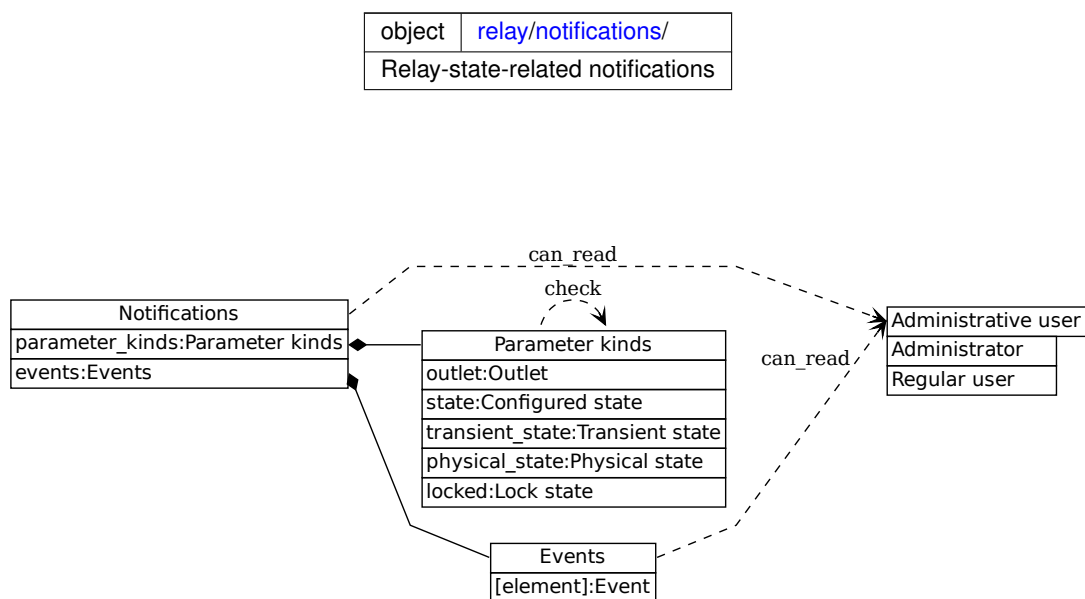
```
print(uom.dump(uom.relay.user_message_timeout))
```

⇒

1

[Browse more samples](#)

2.83 Notifications



Retrieving the value is denied if not [administrative user](#)

This object does not support direct modification.

This object contains the following items:

parameter_kinds	Parameter kinds
events	Events

Sample CLI read command:

```
uom get "relay/notifications"
```

⇒

...

Sample JS request read command:

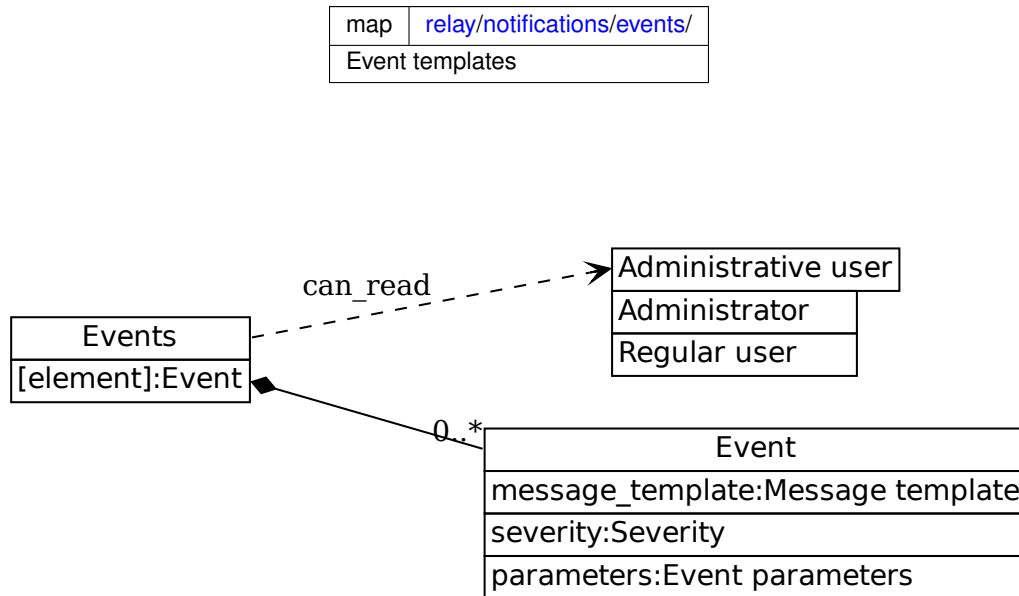
```
request.get({url:"relay/notifications/"},function(error,response,body){console.log(body)});
```


⇒

<...>

[Browse more samples](#)See also [Notifications: Parameter kinds](#)

2.83.1 Events

Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Event](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print(uom.dump(uom.relay.notifications.events))
```

⇒

<...>

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/notifications/events/"
```

⇒

...

[Browse more samples](#)See also [Events: Event](#)

2.84 Notifications: Parameter kinds

object	relay/notifications/parameter_kinds/
Kinds of event parameters	

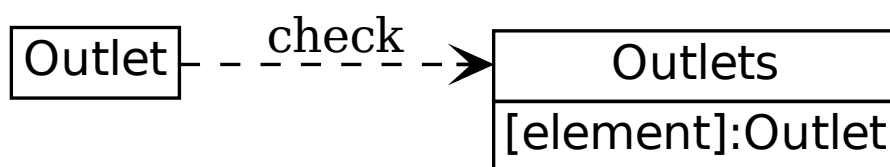
This object does not correspond to an actual resource.

This object contains the following items:

outlet	Outlet
state	Configured state
transient_state	Transient state
physical_state	Physical state
locked	Lock state

2.84.1 Outlet

number	relay/notifications/parameter_kinds/outlet/
Outlet index	



The value is subject to the following constraints: [outlets\[the value\]](#)

2.84.2 Configured state

sum (boolean)	relay/notifications/parameter_kinds/state/
Saved configured state of the outlet	

This sum can assume the following values:

constant true	On	The outlet is powered
constant false	Off	The outlet is not powered

2.84.3 Transient state

sum (boolean)	relay/notifications/parameter_kinds/transient_state/
Current expected state of the outlet	

This sum can assume the following values:

constant true	On	The outlet is powered
constant false	Off	The outlet is not powered

2.84.4 Physical state

sum (boolean)	relay/notifications/parameter_kinds/physical_state/
Current actual state of the outlet	

This sum can assume the following values:

constant true	On	The outlet is powered
constant false	Off	The outlet is not powered

2.84.5 Lock state

sum (boolean)	relay/notifications/parameter_kinds/locked/
Indicates whether the outlet state is locked from keypad	

This sum can assume the following values:

constant true	Locked	The outlet state cannot be changed
constant false	Unlocked	The outlet state can be changed

2.85 Event parameters: Event parameter

object	relay/notifications/events/S/parameters/N/
Properties of a parameter associated with the event	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

id	Identifier
has_fixed_value	Fixed value flag
fixed_value	Fixed value

Sample JS `request write` command (note that `_event` and `_event_parameter_index` are variables):

```
request.put({url:"relay/notifications/events/"+_event+"/parameters/"+
↳ _event_parameter_index.toString()+"/",body:{"fixed_value":null,"
↳ has_fixed_value":false,"id":"outlet"}});
```

Sample requests read command (note that `_event` and `_event_parameter_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/relay/notifications/events/'+
↳ _event+'/parameters/'+str(_event_parameter_index)+'/',auth=auth,headers=
↳ headers).json())
```

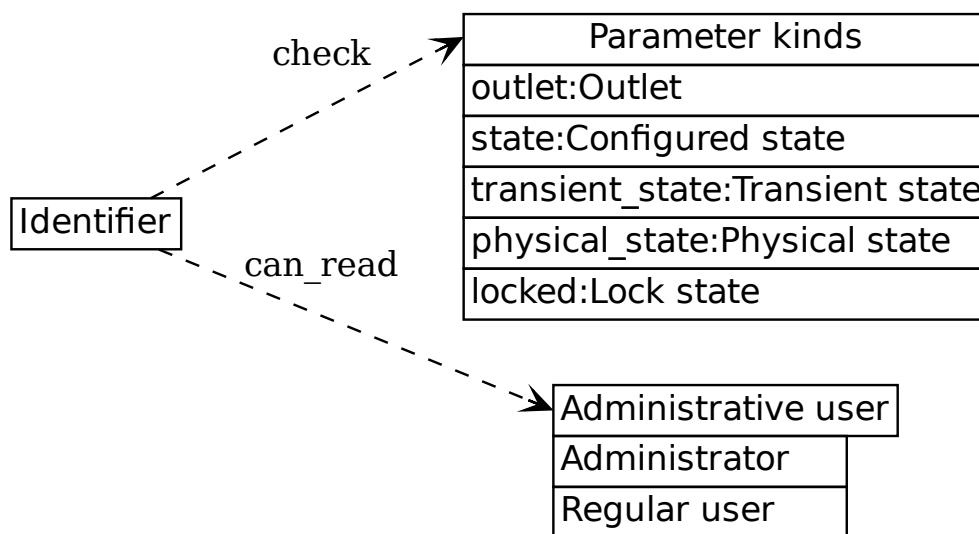
⇒

```
{'fixed_value': True, 'has_fixed_value': True, 'id': 'physical_state'}
```

[Browse more samples](#)

2.85.1 Identifier

string	relay/notifications/events/S/parameters/N/id/
Parameter identifier	



The value is subject to the following constraints: [parameter kinds](#)[[the value](#)]

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"relay/notifications/events/"+_event+"/parameters/"+
  ↳ _event_parameter_index.toString()+"/id/"},function(error,response,body) {
  ↳ console.log(body)});
```

⇒

"outlet"

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.relay.notifications.events[_event].parameters[
  ↳ _event_parameter_index].id))
```

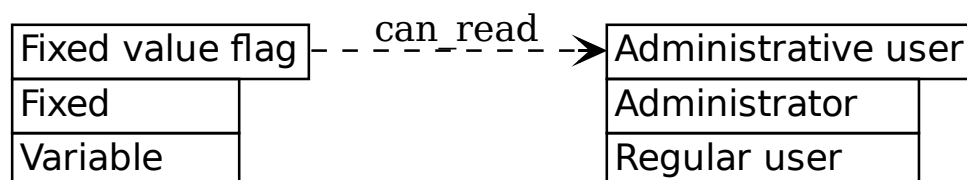
⇒

"outlet"

[Browse more samples](#)

2.85.2 Fixed value flag

sum (boolean)	relay/notifications/events/S/parameters/N/has_fixed_value/
Flag indicating that the parameter's value for this event is fixed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Fixed	The value is fixed
constant false	Variable	The value is variable

Sample requests read command (note that `_event` and `_event_parameter_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/relay/notifications/events/'+
  ↳ _event+'/parameters/'+str(_event_parameter_index)+'/has_fixed_value/',auth=
  ↳ auth,headers=headers).json())
```

⇒

False

Sample curl read command (note that :event and :event_parameter_index are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/notifications/events/:event/parameters/:event_parameter_index ↵
↵ /has_fixed_value/"
```

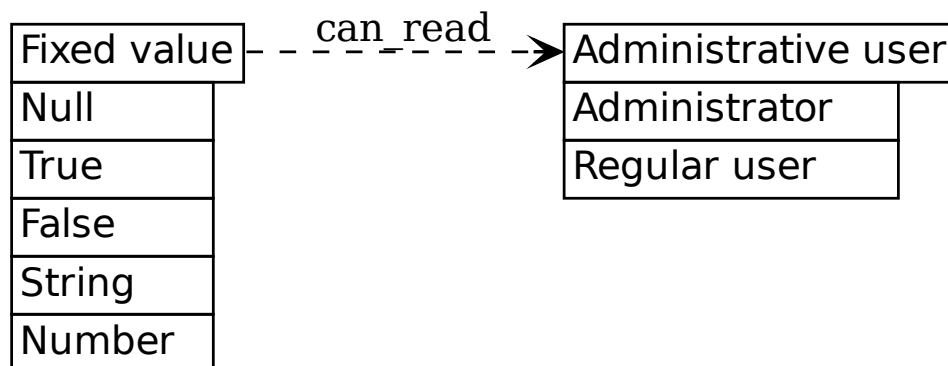
⇒

true

[Browse more samples](#)

2.85.3 Fixed value

sum (variant)	relay/notifications/events/S/parameters/N/fixed_value/
Fixed parameter value for this particular event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample requests read command (note that `_event` and `_event_parameter_index` are variables):

```
print (requests.get ('http://192.168.0.100/restapi/relay/notifications/events/' + ↵
    ↵ _event + '/parameters/' + str (_event_parameter_index) + '/fixed_value/' , auth=auth ↵
    ↵ , headers=headers) . json ())
```

⇒

True

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get ({url: "relay/notifications/events/" + _event + "/parameters/" + ↵
    ↵ _event_parameter_index.toString () + "/fixed_value/" }, function (error, response, ↵
    ↵ body) { console.log (body) });
```

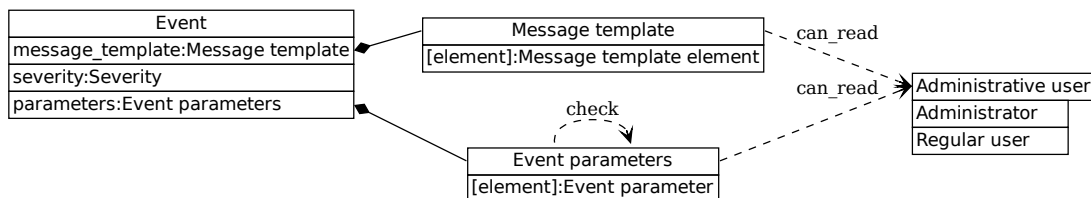
⇒

false

[Browse more samples](#)

2.86 Events: Event

object	relay/notifications/events/S/
Event template	



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

message_template	Message template
severity	Severity
parameters	Event parameters

Sample CLI read command (note that `event` is a variable):

```
uom get "relay/notifications/events/${event}"
```

⇒

```
{
  "severity": 6,
  "message_template": [
    "outlet ", 0, " configured to be ON"
  ],
  "parameters": [
    {
      "fixed_value": null,
      "has_fixed_value": false,
      "id": "outlet"
    },
    {
      "fixed_value": true,
      "has_fixed_value": true,
      "id": "state"
    }
  ]
}
```

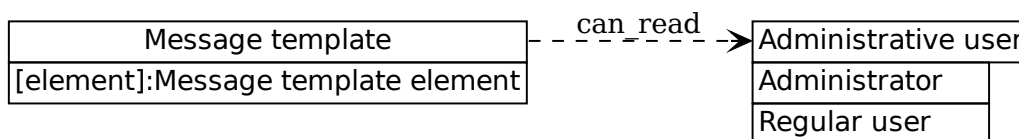
Sample curl write command (note that :event is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
  json" -H "Accept: application/json" --data-binary '{"severity":6,"
  message_template":["outlet ",0," configured to be ON at power-up"],"
  parameters":[{"fixed_value":null,"has_fixed_value":false,"id":"
  outlet"}, {"fixed_value":true,"has_fixed_value":true,"id":"state
  "}]}' "http://192.168.0.100/restapi/relay/notifications/events/:event/"
```

[Browse more samples](#)

2.86.1 Message template

array	relay/notifications/events/S/message_template/
Template for human-readable message generation	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Message template element](#) elements.

Creating elements in this collection is not supported.

Sample requests read command (note that __event is a variable):

```
print(requests.get('http://192.168.0.100/restapi/relay/notifications/events/'+
  __event+'/message_template/', auth=auth, headers=headers).json())
```

⇒

```
['locked outlet ', 0, ' remains OFF at power-up']
```

Sample uom library read command (note that __event is a variable):

```
print(uom.dump(uom.relay.notifications.events[__event].message_template))
```

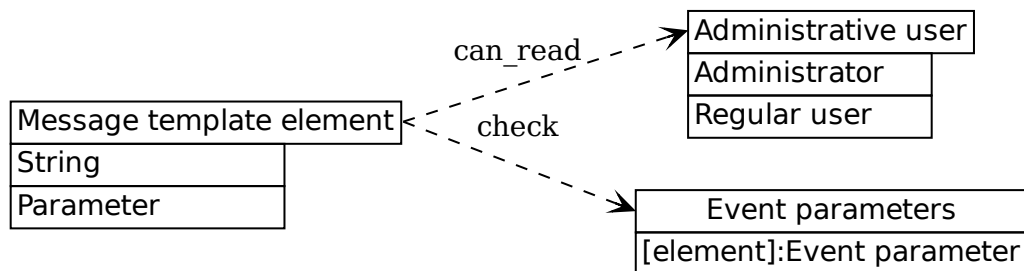
⇒

```
{"outlet ", 0, " configured to be ON at power-up"}
```

[Browse more samples](#)

sum (variant)	relay/notifications/events/S/message_template/N/
Element of human-readable message template	

2.86.1.1 Message template element



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

string	String	Fixed string	
number	Parameter	Index of message parameter to insert	event parameters[the value]

Sample `curl` read command (note that `:event` and `:message_template_element_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/notifications/events/:event/message_template/: ↵
↵ message_template_element_index/"
```

⇒

```
"outlet "
```

Sample JS request read command (note that `_event` and `_message_template_element_index` are variables):

```
request.get({url:"relay/notifications/events/"+_event+"/message_template/"+ ↵
↵ _message_template_element_index.toString()+"/"},function(error,response, ↵
↵ body) {console.log(body)});
```

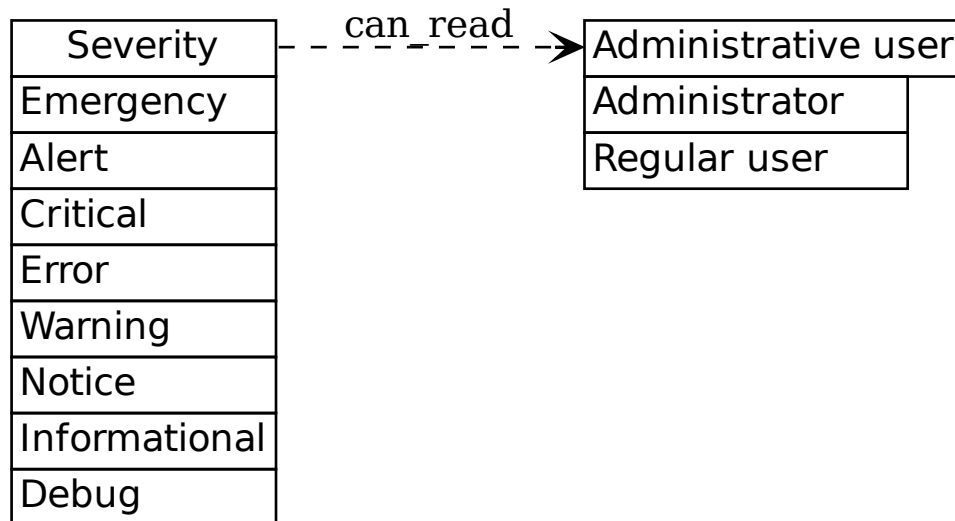
⇒

```
"outlet "
```

[Browse more samples](#)

2.86.2 Severity

sum (enumerated number)	relay/notifications/events/S/severity/
Severity rating assigned to the event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant 1	Emergency	Treat the event as an emergency
constant 2	Alert	Treat the event as an alert
constant 3	Critical	Treat the event as critical
constant 4	Error	Treat the event as an error
constant 5	Warning	Treat the event as a warning
constant 6	Notice	Treat the event as a notice
constant 7	Informational	Treat the event as informational
constant 8	Debug	Treat the event as debugging-related

Sample `curl` read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/notifications/events/:event/severity/"
```

⇒

Sample CLI read command (note that `event` is a variable):

```
uom get "relay/notifications/events/${event}/severity"
```

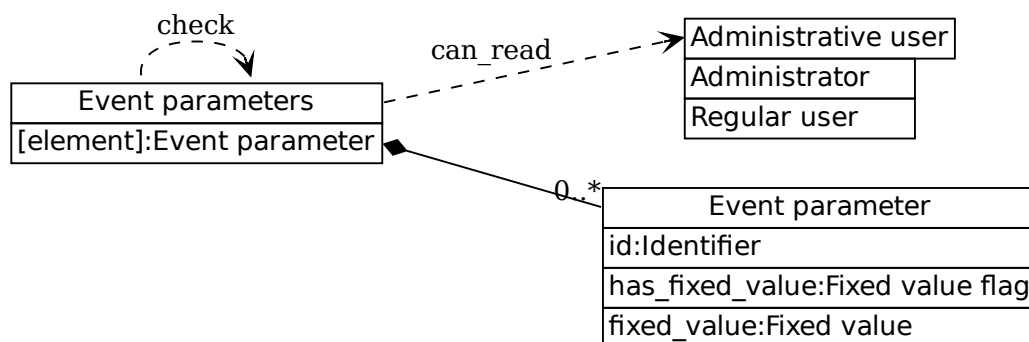
⇒

7

[Browse more samples](#)

2.86.3 Event parameters

array	relay/notifications/events/S/parameters/
Additional data associated with the event	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Event parameter](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/relay/notifications/events/:event/parameters/"
```

⇒

```
[{"fixed_value":null,"has_fixed_value":false,"id":"outlet"}, {"fixed_value":false ↵
↵ , "has_fixed_value":true, "id":"transient_state"}]
```

Sample `requests` read command (note that `_event` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/relay/notifications/events/'+ ↵
↵ _event+'/parameters/', auth=auth, headers=headers).json())
```

⇒

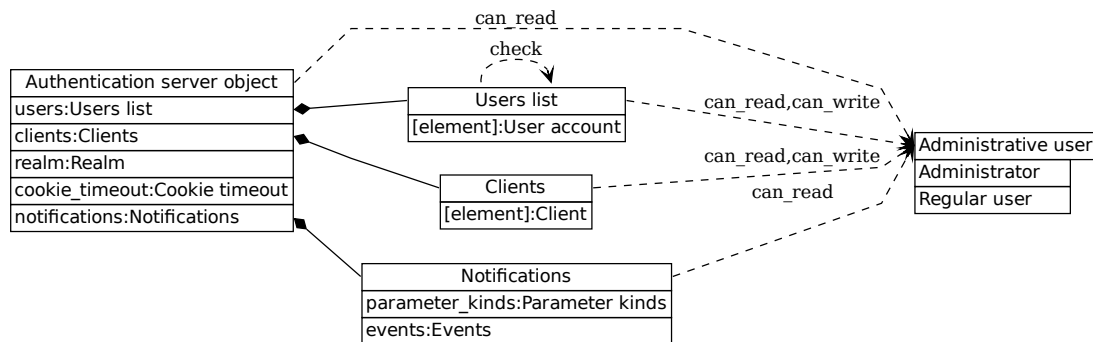
```
[{'fixed_value': None, 'has_fixed_value': False, 'id': 'outlet'}, {'fixed_value': ↵
↵ False, 'has_fixed_value': True, 'id': 'state'}]
```

[Browse more samples](#)

See also [Event parameters: Event parameter](#)

3 Authentication server object

object	auth/
Object representing the authentication server configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

users	Users list
clients	Clients
realm	Realm
cookie_timeout	Cookie timeout
notifications	Notifications

Sample JS request write command:

```
request.put ({url:"auth/",body:<...>});
```

Sample uom library read command:

```
print (uom.dump (uom.auth))
```

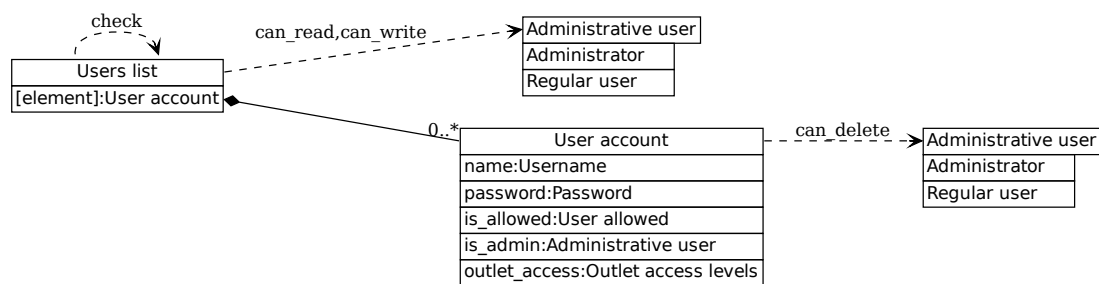
⇒

```
<...>
```

[Browse more samples](#)

3.1 Users list

array	auth/users/
List of user accounts	



Retrieving the value is denied if not **administrative user**

Changing the value is denied if not **administrative user**

This array represents a value in persistent storage.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

This array contains **User account** elements.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/auth/users/"
```

⇒

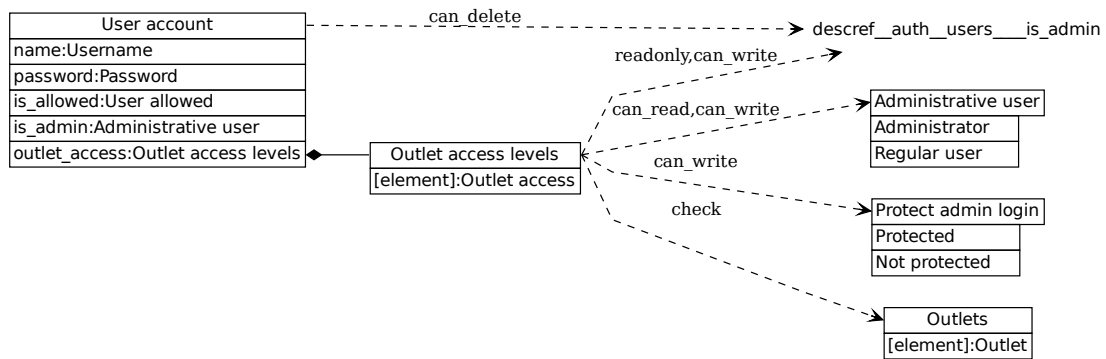
Sample `uom` library user account creation command:

```
uom.insert(uom.auth.users, 3, {is_admin=false, is_allowed=false, name="dick", ↵
↵ outlet_access={false, true, true, false, false, true, false, true}, password="?53_ ↵
↵ '-; }r~1n!n"}))
```

[Browse more samples](#)

3.1.1 User account

object	auth/users/N/
User account configuration	



Removing the object from its parent collection is denied if [administrative user](#)

This object contains the following items:

name	Username
password	Password
is_allowed	User allowed
is_admin	Administrative user
outlet_access	Outlet access levels

Sample uom library write command (note that `_user_account_index` is a variable):

```
uom.auth.users[_user_account_index]={is_admin=false,is_allowed=true,name="admin",
  ↳ outlet_access={true,true,true,true,true,true,true,true},password="nL|l[Y[
  ↳ E_YhZ h*"}
  ↳
```

Sample CLI write command (note that `user_account_index` is a variable):

```
uom set "auth/users/${user_account_index}" "{ \"password\": \"\" ]eI; ^D|X~E\\", \"
  ↳ is_admin\\":false, \"name\\": \"harry\\", \"is_allowed\\":true, \"outlet_access\\": [
  ↳ false,false,false,false,true,false,false,true] }"
  ↳
```

[Browse more samples](#)

See also [User account: Username](#)

See also [User account: Password](#)

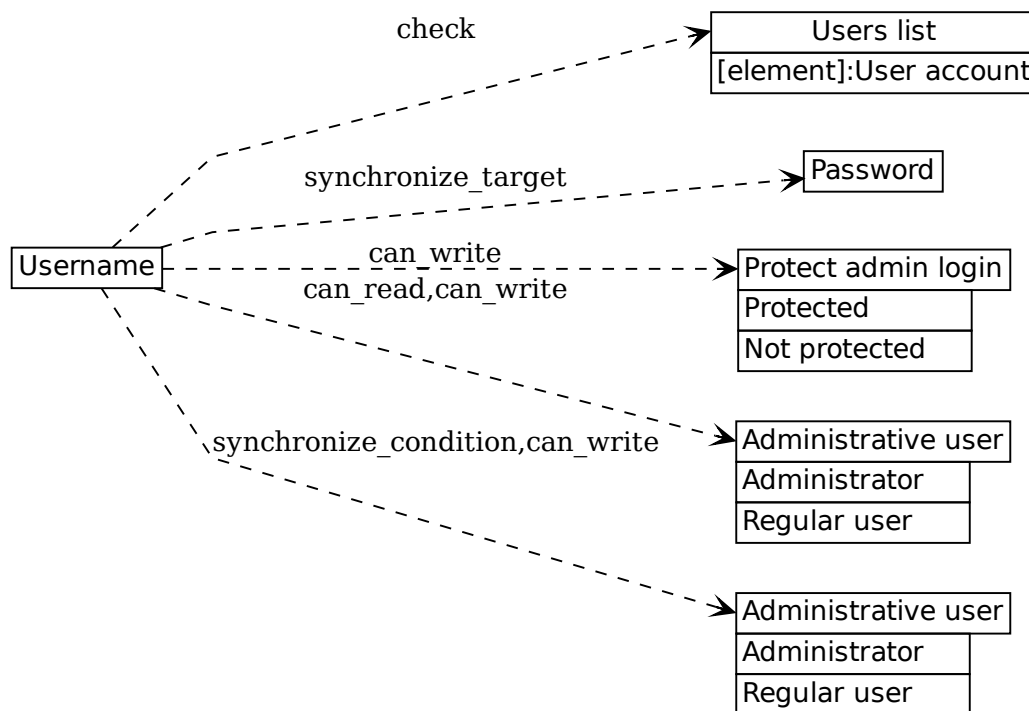
See also [User account: User allowed](#)

See also [User account: Administrative user](#)

See also [User account: Outlet access levels](#)

3.2 User account: Username

string	auth/users/N/name/
Username	



The value is subject to the following constraints: all of the following is true:

- the value matches `^[a-zA-Z0-9]*$`
- name members of all values of **users list** are distinct

Retrieving the value is denied if not **administrative user**

Changing the value is denied if any of the following is true:

- not **administrative user**
- all of the following is true:
 - **administrative user**
 - **protect admin login**

This string represents a value in persistent storage.

Write operations must supply the current value of **password** if **administrative user**

Sample CLI read command (note that `user_account_index` is a variable):

```
uom get "auth/users/${user_account_index}/name"
```

⇒

```
"dick"
```

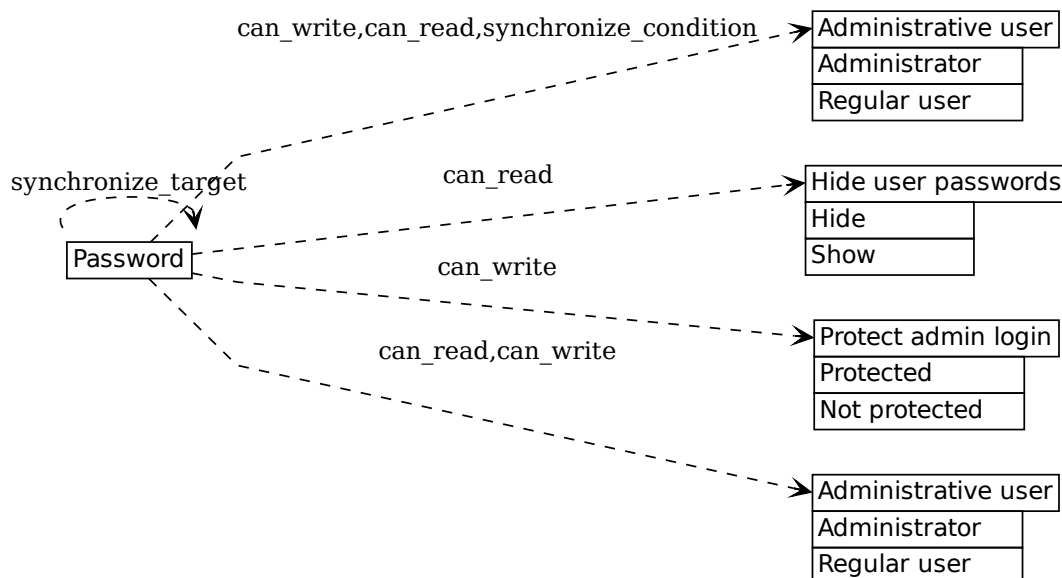
Sample curl write command (note that `:user_account_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
  ↵ json" -H "Accept: application/json" --data-binary "\"dick\"" "http ↵
  ↵ ://192.168.0.100/restapi/auth/users/:user_account_index/name/"
```

[Browse more samples](#)

3.3 User account: Password

string	auth/users/N/password/
Password	



The value is subject to the following constraints: [the value](#) matches `^[ -~]*$`

Retrieving the value is denied if any of the following is true:

- not [administrative user](#)
- [administrative user](#)
- [hide user passwords](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- all of the following is true:
 - [administrative user](#)
 - [protect admin login](#)

Using the string as a field for indexing into the grandparent collection is denied

This string represents a value in persistent storage.

This string should be displayed in a secure manner.

Write operations must supply the current value of [the value](#) if [administrative user](#)

Sample uom library write command (note that `_user_account_index` is a variable):


```
uom.auth.users[_user_account_index].password="{[];V3n;>'#=z.='"
```

Sample JS request read command (note that `_user_account_index` is a variable):

```
request.get({url:"auth/users/"+_user_account_index.toString()+"/password/"}, ↵  
↵ function(error,response,body) {console.log(body)});
```

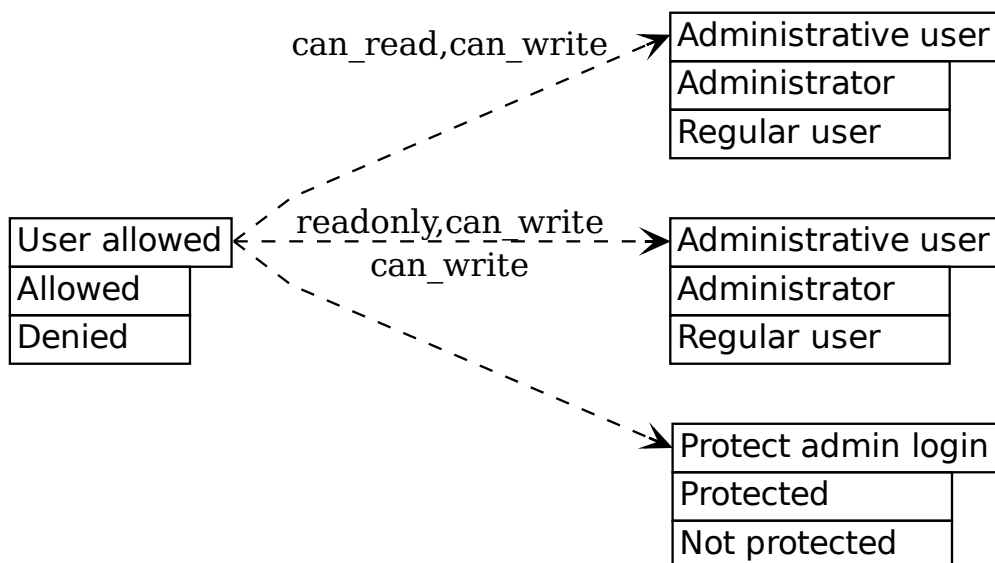
⇒

```
"`f.[|kb,hW^L.\"8"
```

[Browse more samples](#)

3.4 User account: User allowed

sum (boolean)	auth/users/N/is_allowed/
Flag indicating whether user is allowed or denied	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- all of the following is true:
 - [administrative user](#)
 - [protect admin login](#)

This sum does not support direct modification if [administrative user](#).

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Allowed	The user is allowed to log in
constant false	Denied	The user is denied login

Sample uom library read command (note that `_user_account_index` is a variable):

```
print(uom.dump(uom.auth.users[_user_account_index].is_allowed))
```

⇒

```
true
```

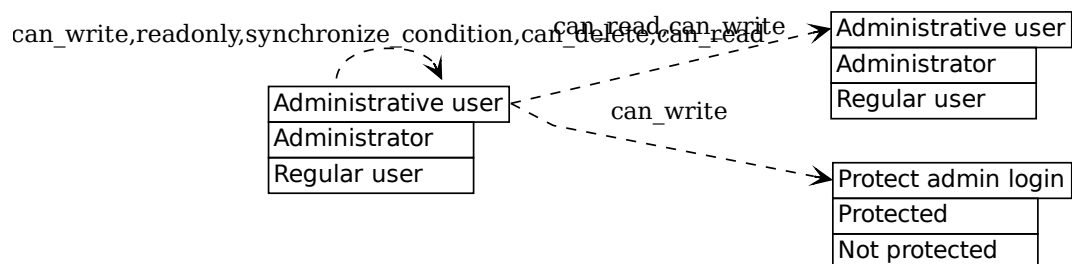
Sample uom library write command (note that `_user_account_index` is a variable):

```
uom.auth.users[_user_account_index].is_allowed=true
```

[Browse more samples](#)

3.5 User account: Administrative user

sum (boolean)	auth/users/N/is_admin/
Flag indicating whether the user is an administrator	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- all of the following is true:
 - [administrative user](#)
 - [protect admin login](#)

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Administrator	The user is an administrator
constant false	Regular user	The user is a regular user

Sample uom library read command (note that `_user_account_index` is a variable):

```
print(uom.dump(uom.auth.users[_user_account_index].is_admin))
```

⇒

true

Sample CLI read command (note that `user_account_index` is a variable):

```
uom get "auth/users/${user_account_index}/is_admin"
```

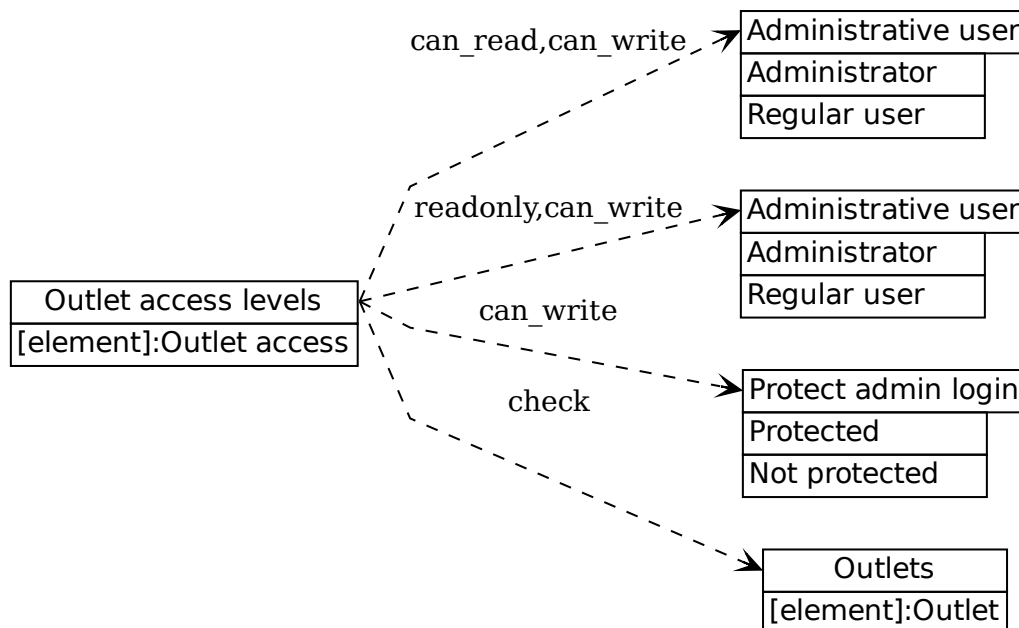
⇒

true

[Browse more samples](#)

3.6 User account: Outlet access levels

array	auth/users/N/outlet_access/
Access levels per outlet	



The value is subject to the following constraints: length of [the value](#) is equal to length of [outlets](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- all of the following is true:
 - [administrative user](#)
 - [protect admin login](#)

This array is composite, i.e. is modified as a whole.

This array does not support direct modification if [administrative user](#).

This array represents a value in persistent storage.

This array contains [Outlet access](#) elements.

Sample curl write command (note that `:user_account_index` is a URL template argument):

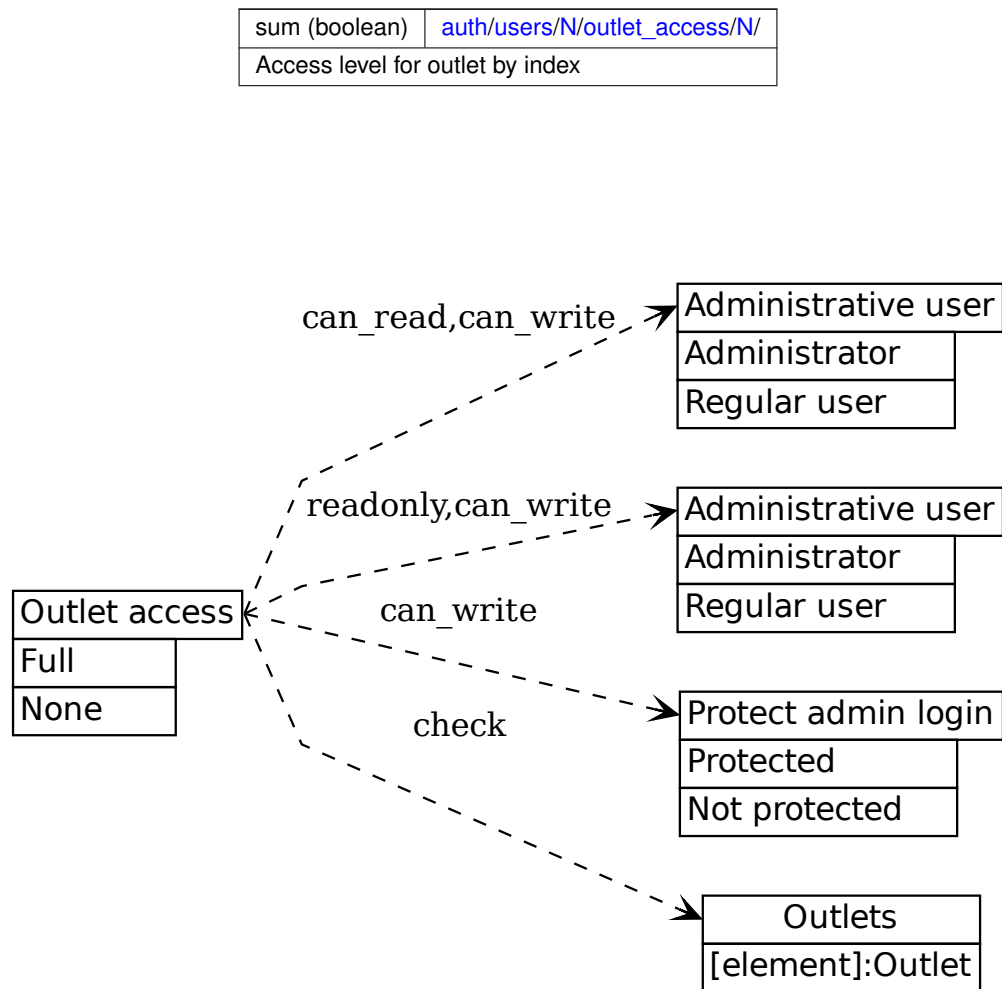
```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "[false,false,true,false, ↵
↵ false,false,false,false]" "http://192.168.0.100/restapi/auth/users/: ↵
↵ user_account_index/outlet_access/"
```

Sample uom library outlet access creation command (note that `_user_account_index` is a variable):

```
local composite=uom.copy(uom.auth.users[_user_account_index].outlet_access)
uom.insert(composite,6,false)
uom.auth.users[_user_account_index].outlet_access=composite
```

[Browse more samples](#)

3.6.1 Outlet access



The value is subject to the following constraints: [outlets](#)[index of the value]

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- all of the following is true:
 - [administrative user](#)
 - [protect admin login](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification if [administrative user](#).

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Full	Outlet state can be manipulated by the user
constant false	None	Outlet state cannot be neither seen nor manipulated by the user

Sample `requests` deletion command (note that `_user_account_index` and `_outlet_access_index` are variables):

```
requests.delete('http://192.168.0.100/restapi/auth/users/'+str( ↵
    ↵ _user_account_index)+'outlet_access/'+str(_outlet_access_index)+'/', auth= ↵
    ↵ auth, headers=headers)
```

Sample `curl` read command (note that `:user_account_index` and `:outlet_access_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/auth/users/:user_account_index/outlet_access/:outlet_access_index/"
```

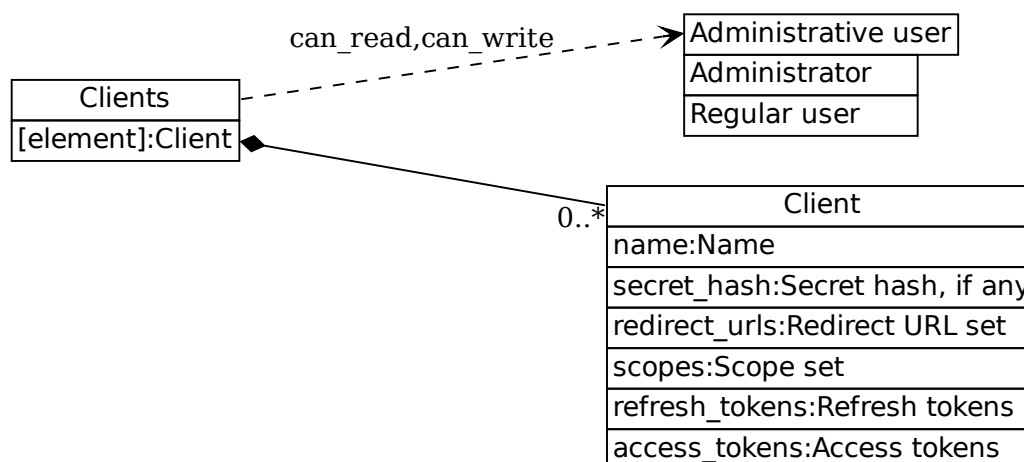
⇒

false

[Browse more samples](#)

3.7 Clients

map	auth/clients/
Client accounts allowed scope-limited token-based access	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map represents a value in persistent storage.

This map contains [Client](#) elements.

Sample CLI read command:

```
uom get "auth/clients"
```

⇒

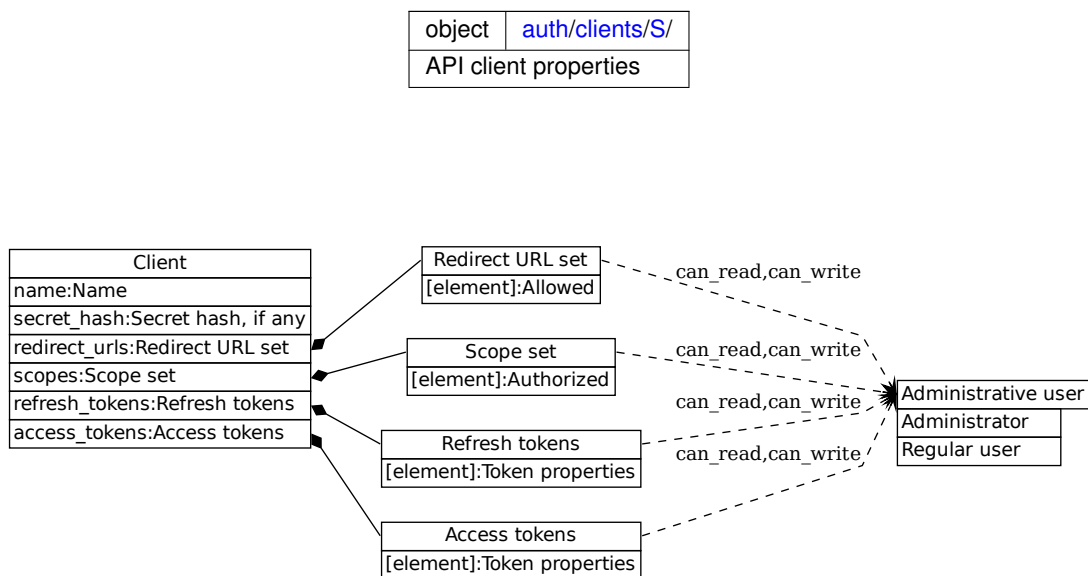
...

Sample uom library write command:

```
uom.auth.clients={vx4LM={access_tokens={ce0ecebc8ffc547f14a73dc173adf283={
  ↪ expiry_time=1665087323,remaining_use_count=68}},redirect_urls={["https://%7
  ↪ dVE%Bd8"]=true,["https://%BA"]=true,["https://%F"]=true},refresh_tokens={
  ↪ d2bce8c90fc8220587046e14f816f176={expiry_time=null,remaining_use_count
  ↪ =95}},scopes={["dli+object+read:/script/"]=true},secret_hash=null}}
```

[Browse more samples](#)

3.7.1 Client



This object contains the following items:

name	Name
secret_hash	Secret hash, if any
redirect_urls	Redirect URL set
scopes	Scope set
refresh_tokens	Refresh tokens
access_tokens	Access tokens

Sample uom library read command (note that `_client` is a variable):

```
print(uom.dump(uom.auth.clients[_client]))
```

⇒

Sample `curl` read command (note that `:client` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/auth/clients/:client/"
```

⇒

[Browse more samples](#)

See also [Client: Name](#)

See also [Client: Secret hash, if any](#)

See also [Client: Redirect URL set](#)

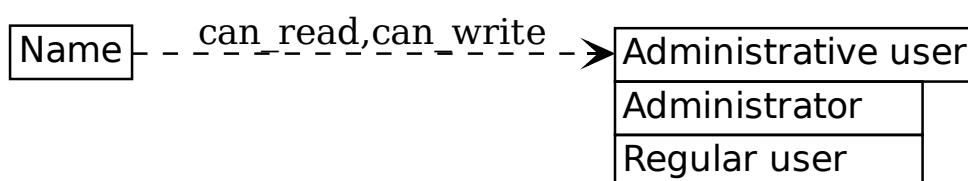
See also [Client: Scope set](#)

See also [Client: Refresh tokens](#)

See also [Client: Access tokens](#)

3.8 Client: Name

string	auth/clients/S/name/
User-visible name of the client	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample JS `request` read command (note that `_client` is a variable):


```
request.get({url:"auth/clients/"+_client+"/name/"},function(error,response,body) ↵
    ↵ {console.log(body)});
```

⇒

[]

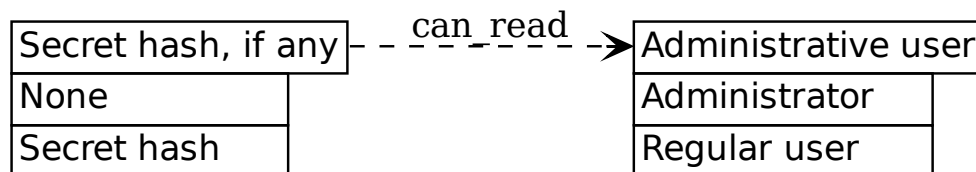
Sample requests write command (note that `_client` is a variable):

```
requests.put('http://192.168.0.100/restapi/auth/clients/'+_client+'/name/',auth= ↵
    ↵ auth,headers=headers,json={})
```

[Browse more samples](#)

3.9 Client: Secret hash, if any

sum (optional string)	auth/clients/S/secret_hash/
Hash of the client secret in an implementation-defined format, if any	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	The client does not have a secret to authenticate itself
string	Secret hash	Hash of the client secret in an implementation-defined format

Sample curl read command (note that `:client` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/auth/clients/:client/secret_hash/"
```

⇒

null

Sample uom library read command (note that `_client` is a variable):

```
print(uom.dump(uom.auth.clients[_client].secret_hash))
```

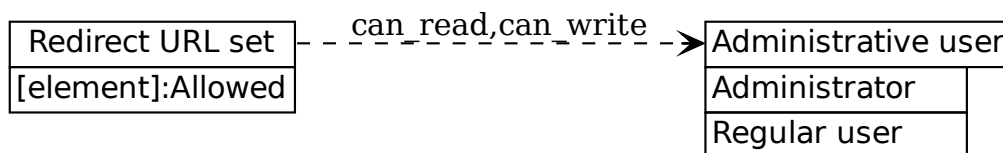
⇒

```
null
```

[Browse more samples](#)

3.10 Client: Redirect URL set

map	auth/clients/S/redirect_urls/
Set of URLs permitted to receive redirection on successful login	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map represents a value in persistent storage.

This map contains [Allowed](#) elements.

Sample curl write command (note that `:client` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
    ↵ json" -H "Accept: application/json" --data-binary '{"https://4":true}' " ↵
    ↵ http://192.168.0.100/restapi/auth/clients/:client/redirect_urls/"
```

Sample uom library read command (note that `_client` is a variable):

```
print(uom.dump(uom.auth.clients[_client].redirect_urls))
```

⇒

```
{"https://[]y"]=true}
```

[Browse more samples](#)

3.10.1 Allowed

constant true	auth/clients/S/redirect_urls/S/
The given URL is allowed to receive redirection on successful login	

Sample requests deletion command (note that `_client` and `_allowed` are variables):

```
requests.delete('http://192.168.0.100/restapi/auth/clients/' + _client + '/' +
  ↪ redirect_urls/' + _allowed + '/' , auth=auth, headers=headers)
```

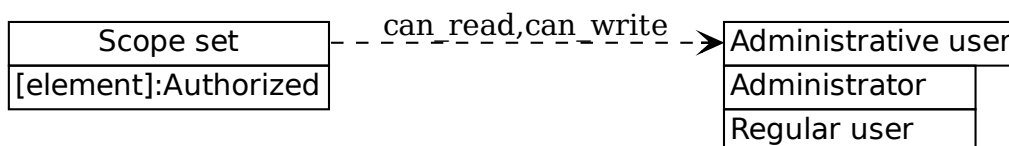
Sample curl write command (note that `:client` and `:allowed` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
  ↪ json" -H "Accept: application/json" --data-binary "true" "http
  ↪ ://192.168.0.100/restapi/auth/clients/:client/redirect_urls/:allowed/"
```

[Browse more samples](#)

3.11 Client: Scope set

map	auth/clients/S/scopes/
Set of scopes that the authenticated client is authorized to access	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map represents a value in persistent storage.

This map contains [Authorized](#) elements.

Sample JS request write command (note that `_client` is a variable):

```
request.put({url:"auth/clients/" + _client + "/scopes/", body:{"dli+object+read":"/":
  ↪ true}});
```

Sample uom library authorized creation command (note that `_client` is a variable):

```
uom.insert(uom.auth.clients[_client].scopes, "dli+object+full:/script/", true)
```

[Browse more samples](#)

3.11.1 Authorized

constant true	auth/clients/S/scopes/S/
The client is authorized to access the given scope	

Sample uom library read command (note that `_client` and `_authorized` are variables):

```
print (uom.dump (uom.auth.clients[_client].scopes[_authorized]))
```

⇒

```
true
```

Sample curl read command (note that `:client` and `:authorized` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/auth/clients/:client/scopes/:authorized/"
```

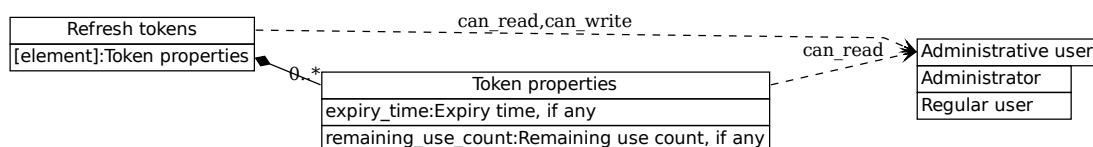
⇒

```
true
```

[Browse more samples](#)

3.12 Client: Refresh tokens

map	auth/clients/S/refresh_tokens/
Tokens that can be used to create access tokens	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map represents a value in persistent storage.

This map can change as if by itself or indirectly because of other actions.

Changes to this map cannot be tracked.

This map contains [Token properties](#) elements.

Sample JS request write command (note that `_client` is a variable):

```
request.put ({url:"auth/clients/"+_client+"/refresh_tokens/",body:{ " ↵
↵ f50f4a1500e96f2b5af80a9fc95dc827":{"expiry_time":null,"remaining_use_count ↵
↵ ":10}}});
```

Sample requests read command (note that `_client` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/auth/clients/' + _client + '/ ↵
    ↵ refresh_tokens/', auth=auth, headers=headers).json())
```

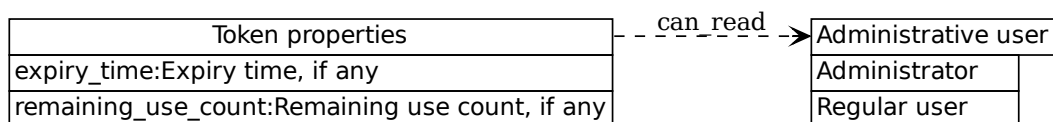
⇒

```
{'48f33666f0f3489096e4f4f4d4fa6630': {'expiry_time': 1680263274, ' ↵
    ↵ remaining_use_count': 46}, '915e6ae796a20eb31d09f39d7d4982f6': {' ↵
    ↵ expiry_time': 1699004100, 'remaining_use_count': 64}}
```

[Browse more samples](#)

3.12.1 Token properties

object	auth/clients/S/refresh_tokens/S/
Properties of the refresh token	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

expiry_time	Expiry time, if any
remaining_use_count	Remaining use count, if any

Sample requests write command (note that `_client` and `_token_properties` are variables):

```
requests.put ('http://192.168.0.100/restapi/auth/clients/' + _client + '/ ↵
    ↵ refresh_tokens/' + _token_properties + '/', auth=auth, headers=headers, json={' ↵
    ↵ expiry_time': 1691355768, 'remaining_use_count': 23})
```

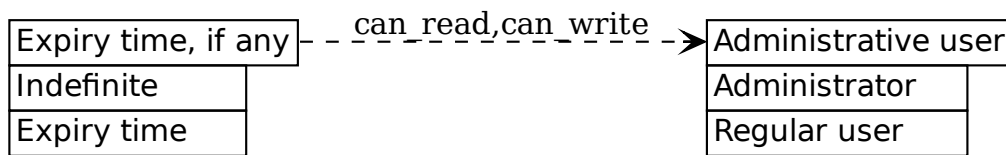
Sample CLI deletion command (note that `client` and `token_properties` are variables):

```
uom remove "auth/clients/${client}/refresh_tokens/${token_properties}"
```

[Browse more samples](#)

sum (optional number)	auth/clients/S/refresh_tokens/S/expiry_time/
The time at which the token is invalidated, if any	

3.12.1.1 Expiry time, if any



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Indefinite	The token stays valid for an indefinite time
number	Expiry time	The time at which the token is invalidated

Sample JS request read command (note that `_client` and `_token_properties` are variables):

```
request.get({url:"auth/clients/"+_client+"/refresh_tokens/"+_token_properties+"/  
    ↪ expiry_time/"},function(error,response,body) {console.log(body)});
```

⇒

null

Sample CLI read command (note that `client` and `token_properties` are variables):

```
uom get "auth/clients/${client}/refresh_tokens/${token_properties}/expiry_time"
```

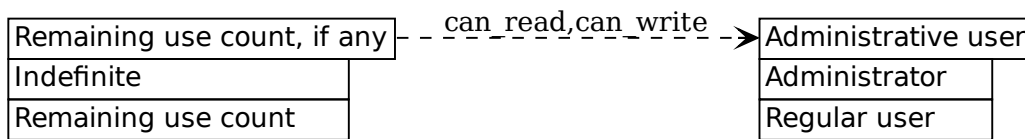
⇒

1630994574

[Browse more samples](#)

sum (optional number)	auth/clients/S/refresh_tokens/S/remaining_use_count/
The number of times the token can be used before it is invalidated, if any	

3.12.1.2 Remaining use count, if any



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant null	Indefinite	The token may be used any number of times	
number	Remaining use count	The number of times the token can be used before it is is invalidated	all of the following is true: • the value is an integer • the value is greater or equal to 0

Sample JS request write command (note that `_client` and `_token_properties` are variables):

```
request.put ({url: "auth/clients/"+_client+"/refresh_tokens/"+_token_properties+"/ ←
    ↪ remaining_use_count/", body: 48});
```

Sample uom library read command (note that `_client` and `_token_properties` are variables):

```
print (uom.dump (uom.auth.clients[_client].refresh_tokens[_token_properties]. ←
    ↪ remaining_use_count))
```

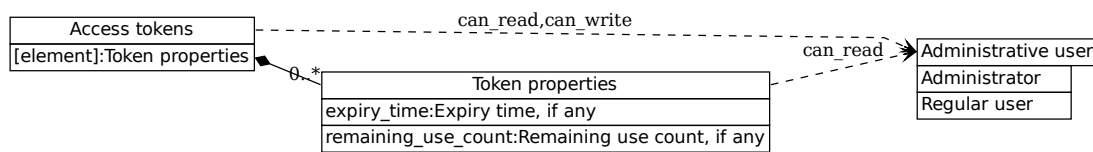
⇒

null

[Browse more samples](#)

3.13 Client: Access tokens

map	auth/clients/S/access_tokens/
Tokens that can be used to access the scopes	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map represents a value in persistent storage.

This map can change as if by itself or indirectly because of other actions.

Changes to this map cannot be tracked.

This map contains [Token properties](#) elements.

Sample JS request read command (note that `_client` is a variable):

```
request.get({url:"auth/clients/"+_client+"/access_tokens/"},function(error, ↵
    ↵ response,body) {console.log(body)});
```

⇒

Sample requests read command (note that `_client` is a variable):

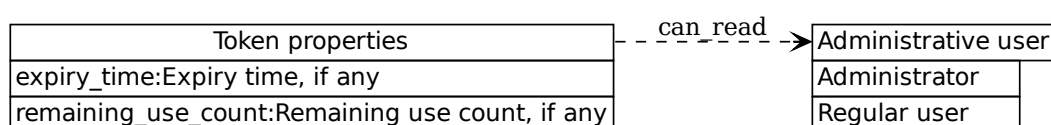
```
print(requests.get('http://192.168.0.100/restapi/auth/clients/'+_client+' / ↵
    ↵ access_tokens/',auth=auth,headers=headers).json())
```

⇒

[Browse more samples](#)

3.13.1 Token properties

object	auth/clients/S/access_tokens/S/
Properties of the access token	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

expiry_time	Expiry time, if any
remaining_use_count	Remaining use count, if any

Sample JS request write command (note that `_client` and `_token_properties` are variables):

```
request.put ({url:"auth/clients/"+_client+"/access_tokens/"+_token_properties+"/",  
  ↪ body:{"expiry_time":1667847152,"remaining_use_count":null}});
```

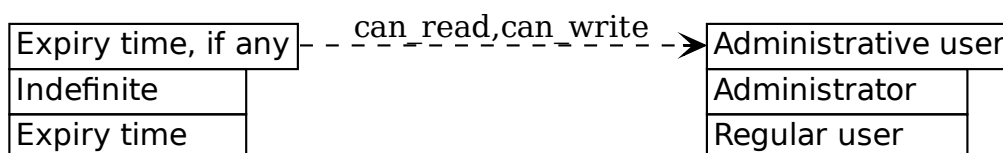
Sample uom library deletion command (note that `_client` and `_token_properties` are variables):

```
uom.remove (uom.auth.clients[_client].access_tokens,_token_properties)
```

[Browse more samples](#)

sum (optional number)	auth/clients/S/access_tokens/S/expiry_time/
The time at which the token is invalidated, if any	

3.13.1.1 Expiry time, if any



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Indefinite	The token stays valid for an indefinite time
number	Expiry time	The time at which the token is invalidated

Sample curl read command (note that `:client` and `:token_properties` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/  
  ↪ restapi/auth/clients/:client/access_tokens/:token_properties/expiry_time/"
```

⇒

1644896440

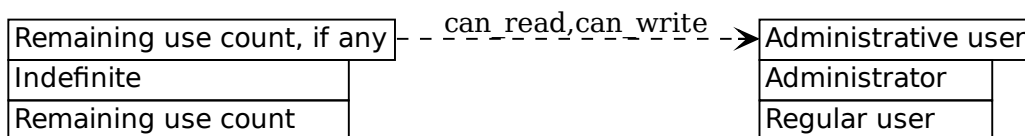
Sample JS request write command (note that `_client` and `_token_properties` are variables):

```
request.put({url:"auth/clients/"+_client+"/access_tokens/"+_token_properties+"/  
↪ expiry_time/",body:null});
```

[Browse more samples](#)

sum (optional number)	auth/clients/S/access_tokens/S/remaining_use_count/
The number of times the token can be used before it is is invalidated, if any	

3.13.1.2 Remaining use count, if any



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant null	Indefinite	The token may be used any number of times	
number	Remaining use count	The number of times the token can be used before it is is invalidated	all of the following is true: • the value is an integer • the value is greater or equal to 0

Sample uom library write command (note that `_client` and `_token_properties` are variables):

```
uom.auth.clients[_client].access_tokens[_token_properties].remaining_use_count=55
```

Sample curl read command (note that `:client` and `:token_properties` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/  
↪ restapi/auth/clients/:client/access_tokens/:token_properties/  
↪ remaining_use_count/"
```

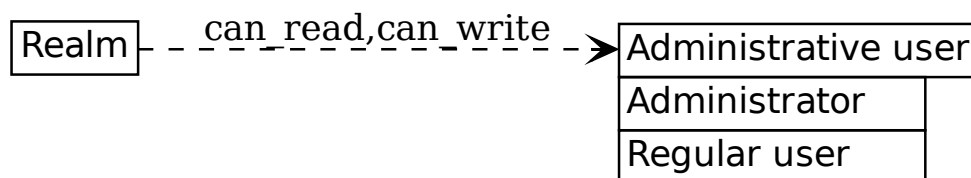
⇒

10

[Browse more samples](#)

3.14 Realm

string	auth/realm/
The realm to be announced in authentication responses	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "[]" "http ↵
↵ ://192.168.0.100/restapi/auth/realm/"
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/auth/realm/"
```

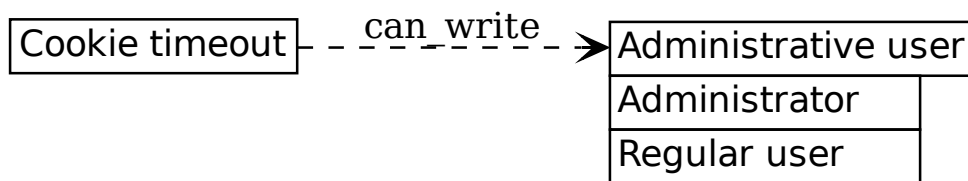
⇒

[]

[Browse more samples](#)

3.15 Cookie timeout

number	auth/cookie_timeout/
The amount of time for which a cookie is valid	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/auth/cookie_timeout/', auth=auth, ↵
    ↵ headers=headers).json())
```

⇒

30000

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/auth/cookie_timeout/"
```

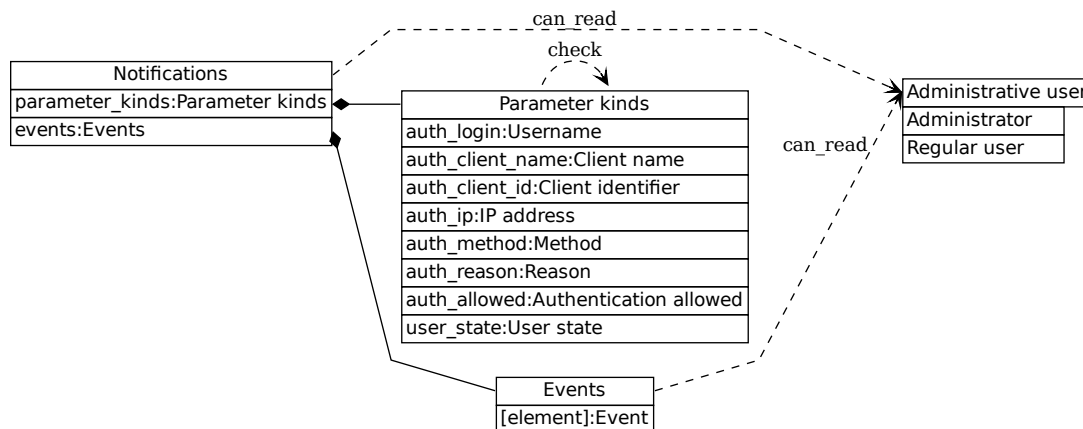
⇒

30000

[Browse more samples](#)

3.16 Notifications

object	auth/notifications/
Authentication-related notifications	



Retrieving the value is denied if not [administrative user](#)

This object does not support direct modification.

This object contains the following items:

parameter_kinds	Parameter kinds
events	Events

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/auth/notifications/"
```

⇒

...

Sample `uom` library read command:

```
print(uom.dump(uom.auth.notifications))
```

⇒

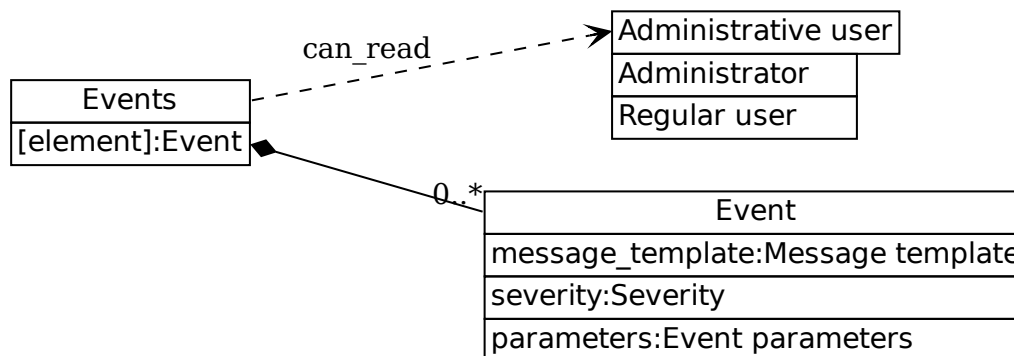
<...>

[Browse more samples](#)

See also [Notifications: Parameter kinds](#)

3.16.1 Events

map	auth/notifications/events/
Event templates	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Event](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/auth/notifications/events/"
```

⇒

...

Sample CLI read command:

```
uom get "auth/notifications/events"
```

⇒

...

[Browse more samples](#)

See also [Events: Event](#)

3.17 Notifications: Parameter kinds

object	auth/notifications/parameter_kinds/
Kinds of event parameters	

This object does not correspond to an actual resource.

This object contains the following items:

auth_login	Username
auth_client_name	Client name
auth_client_id	Client identifier
auth_ip	IP address
auth_method	Method
auth_reason	Reason
auth_allowed	Authentication allowed
user_state	User state

3.17.1 Username

string	auth/notifications/parameter_kinds/auth_login/
The name of the user	

3.17.2 Client name

string	auth/notifications/parameter_kinds/auth_client_name/
The name of the client	

3.17.3 Client identifier

string	auth/notifications/parameter_kinds/auth_client_id/
The identifier of the client	

3.17.4 IP address

string	auth/notifications/parameter_kinds/auth_ip/
The IP address of the user	

The value is subject to the following constraints: [the value](#) matches `^((([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]).){3}([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]))$`

3.17.5 Method

string	auth/notifications/parameter_kinds/auth_method/
The authentication method	

3.17.6 Reason

string	auth/notifications/parameter_kinds/auth_reason/
The reason for authentication decision	

3.17.7 Authentication allowed

sum (boolean)	auth/notifications/parameter_kinds/auth_allowed/
Authentication decision result	

This sum can assume the following values:

constant true	Allowed	The user is allowed to log in
constant false	Denied	The user is denied to log in

3.17.8 User state

sum (variant)	auth/notifications/parameter_kinds/user_state/
The state of the user	

This sum can assume the following values:

constant true	Existing	The user exists
constant false	Deleted	The user has been deleted
constant "new"	New	The user has been created

3.18 Event parameters: Event parameter

object	auth/notifications/events/S/parameters/N/
Properties of a parameter associated with the event	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

id	Identifier
has_fixed_value	Fixed value flag
fixed_value	Fixed value

Sample JS request write command (note that `_event` and `_event_parameter_index` are variables):

```
request.put ({url:"auth/notifications/events/"+_event+"/parameters/"+
  ↳ _event_parameter_index.toString()+"/",body:{"fixed_value":true,"
  ↳ has_fixed_value":true,"id":"user_state"}});
```

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get ({url:"auth/notifications/events/"+_event+"/parameters/"+
  ↳ _event_parameter_index.toString()+"/"},function(error,response,body) {
  ↳ console.log(body) });
```

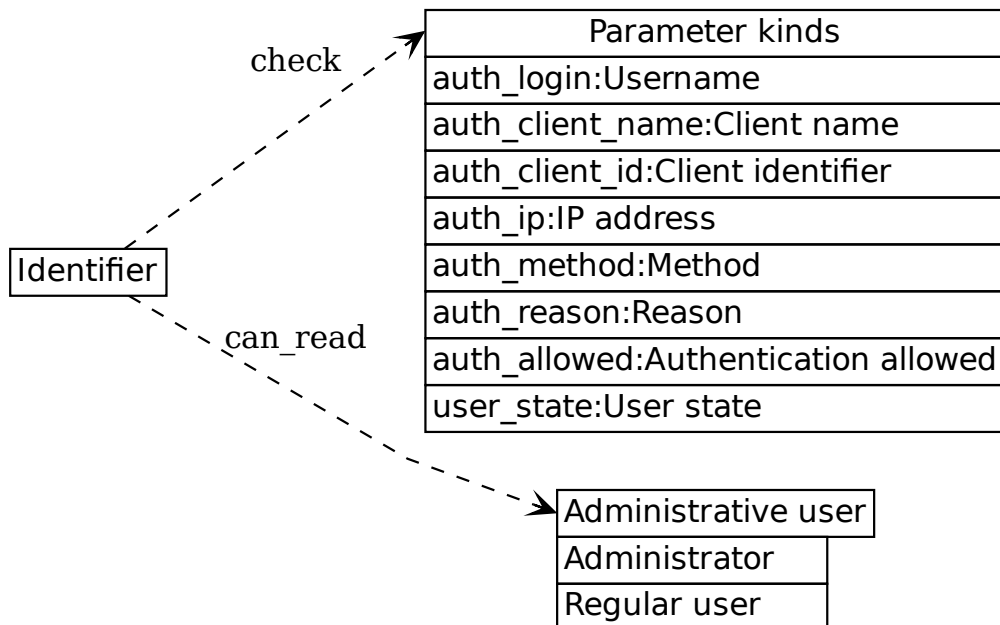
⇒

```
{"fixed_value":null,"has_fixed_value":false,"id":"auth_reason"}
```

[Browse more samples](#)

3.18.1 Identifier

string	auth/notifications/events/S/parameters/N/id/
Parameter identifier	



The value is subject to the following constraints: [parameter kinds\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "auth/notifications/events/${event}/parameters/${event_parameter_index}/" ↵
↵ id"
```

⇒

```
"auth_reason"
```

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"auth/notifications/events/"+_event+"/parameters/"+ ↵
↵ _event_parameter_index.toString()+"/id/"},function(error,response,body) { ↵
↵ console.log(body) });
```

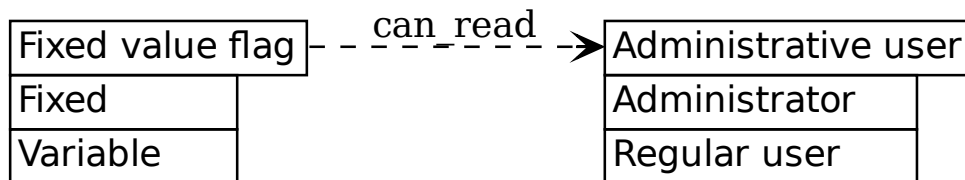
⇒

```
"auth_login"
```

[Browse more samples](#)

3.18.2 Fixed value flag

sum (boolean)	auth/notifications/events/S/parameters/N/has_fixed_value/
Flag indicating that the parameter's value for this event is fixed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Fixed	The value is fixed
constant false	Variable	The value is variable

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.auth.notifications.events[_event].parameters[↔
↔ _event_parameter_index].has_fixed_value))
```

⇒

false

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"auth/notifications/events/"+_event+"/parameters/"+↔
↔ _event_parameter_index.toString()+"/has_fixed_value/"},function(error,↔
↔ response,body) {console.log(body)});
```

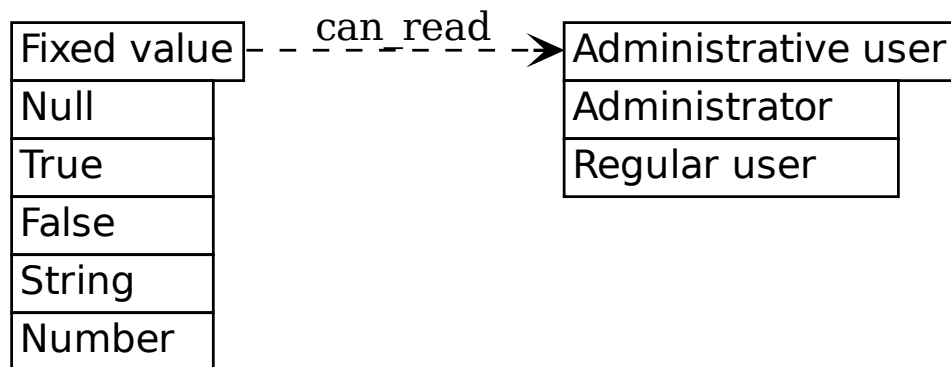
⇒

true

[Browse more samples](#)

3.18.3 Fixed value

sum (variant)	auth/notifications/events/S/parameters/N/fixed_value/
Fixed parameter value for this particular event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample `curl` read command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/auth/notifications/events/:event/parameters/:event_parameter_index/ ↵
↵ fixed_value/"
```

⇒

null

Sample `uom` library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.auth.notifications.events[_event].parameters[ ↵
↵ _event_parameter_index].fixed_value))
```

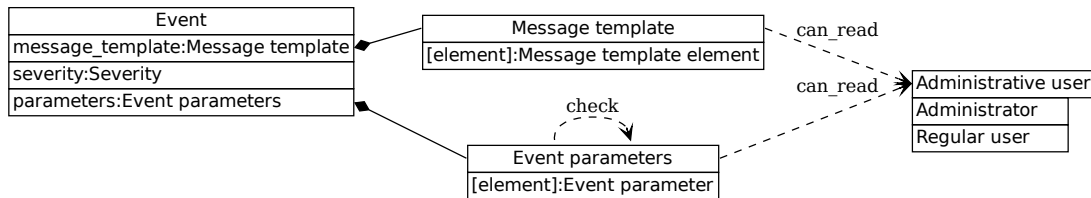
⇒

null

[Browse more samples](#)

3.19 Events: Event

object	auth/notifications/events/S/
Event template	



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

message_template	Message template
severity	Severity
parameters	Event parameters

Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"auth/notifications/events/"+_event+"/"},function(error,response ↵
↵ ,body) {console.log(body)});
```

⇒

```
{"severity":6,"message_template":["protection violation attempt: ",0],"parameters ↵
↵ ":[{"fixed_value":null,"has_fixed_value":false,"id":"auth_reason"}]}
```

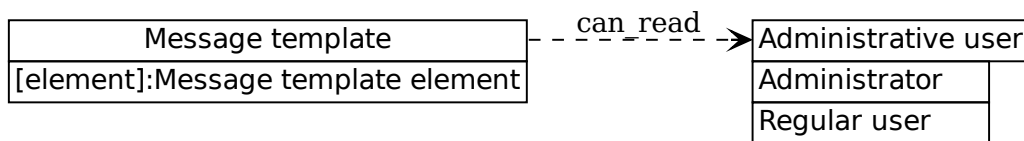
Sample uom library write command (note that `_event` is a variable):

```
uom.auth.notifications.events[_event]={message_template={0,"@",1," session closed ↵
↵ "},parameters={{fixed_value=null,has_fixed_value=false,id="auth_login"},{ ↵
↵ fixed_value=null,has_fixed_value=false,id="auth_ip"}},severity=7}
```

[Browse more samples](#)

3.19.1 Message template

array	auth/notifications/events/S/message_template/
Template for human-readable message generation	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Message template element](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command (note that `_event` is a variable):

```
print(uom.dump(uom.auth.notifications.events[_event].message_template))
```

⇒

```
{"created user ",0}
```

Sample CLI read command (note that `event` is a variable):

```
uom get "auth/notifications/events/${event}/message_template"
```

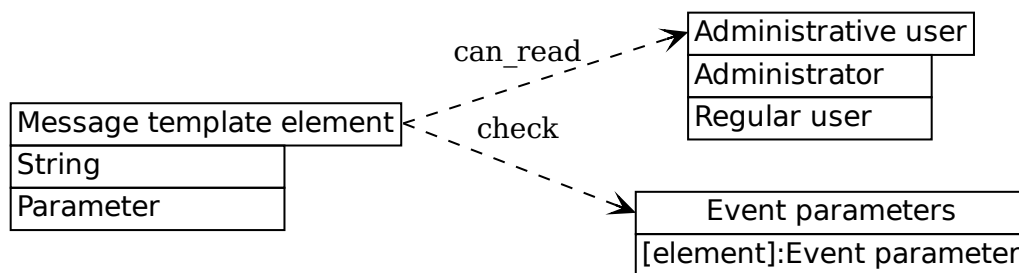
⇒

```
["protection violation attempt: ",0]
```

[Browse more samples](#)

sum (variant)	auth/notifications/events/S/message_template/N/
Element of human-readable message template	

3.19.1.1 Message template element



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

string	String	Fixed string	
number	Parameter	Index of message parameter to insert	event parameters[the value]

Sample CLI read command (note that `event` and `message_template_element_index` are variables):

```
uom get "auth/notifications/events/${event}/message_template/${
  ↪ message_template_element_index}"
```

⇒

```
"created user "
```

Sample uom library read command (note that `_event` and `_message_template_element_index` are variables):

```
print(uom.dump(uom.auth.notifications.events[_event].message_template[
  ↪ _message_template_element_index]))
```

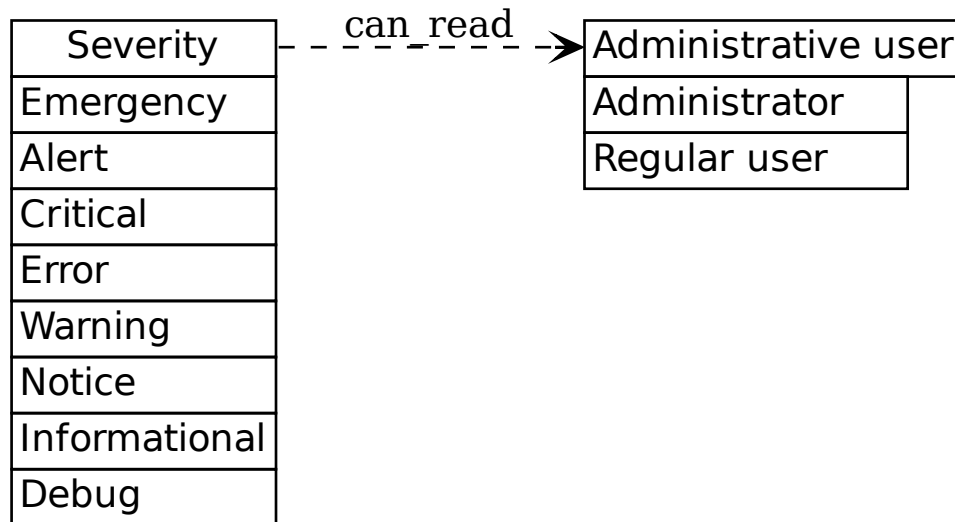
⇒

```
"modified user "
```

[Browse more samples](#)

3.19.2 Severity

sum (enumerated number)	auth/notifications/events/S/severity/
Severity rating assigned to the event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant 1	Emergency	Treat the event as an emergency
constant 2	Alert	Treat the event as an alert
constant 3	Critical	Treat the event as critical
constant 4	Error	Treat the event as an error
constant 5	Warning	Treat the event as a warning
constant 6	Notice	Treat the event as a notice
constant 7	Informational	Treat the event as informational
constant 8	Debug	Treat the event as debugging-related

Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"auth/notifications/events/"+_event+"/severity/"},function(error ↵
    ↵ ,response,body) {console.log(body)});
```

⇒

6

Sample uom library read command (note that `_event` is a variable):

```
print(uom.dump(uom.auth.notifications.events[_event].severity))
```

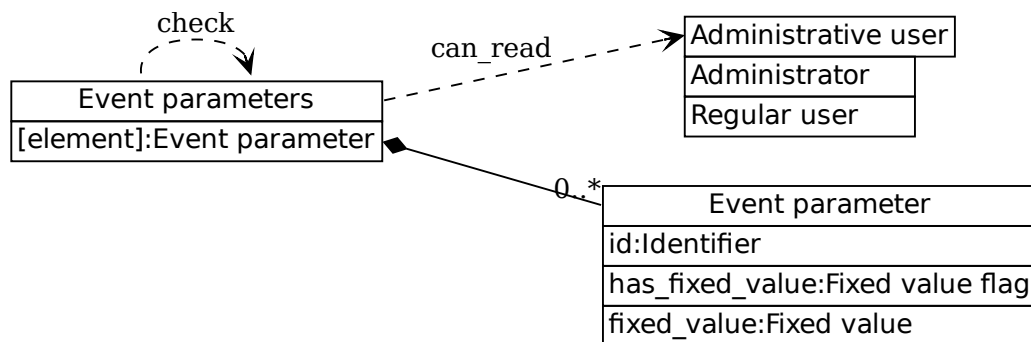
⇒

7

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3.19.3 Event parameters

array	auth/notifications/events/S/parameters/
Additional data associated with the event	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Event parameter](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command (note that `_event` is a variable):

```
print(uom.dump(uom.auth.notifications.events[_event].parameters))
```

⇒

```
{{'fixed_value': None, 'has_fixed_value': False, 'id': 'auth_login'}, {'fixed_value': 'new',
↵ 'has_fixed_value': True, 'id': 'user_state'}}
```

Sample requests read command (note that `_event` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/auth/notifications/events/'+
↵ _event+'/parameters/', auth=auth, headers=headers).json())
```

⇒

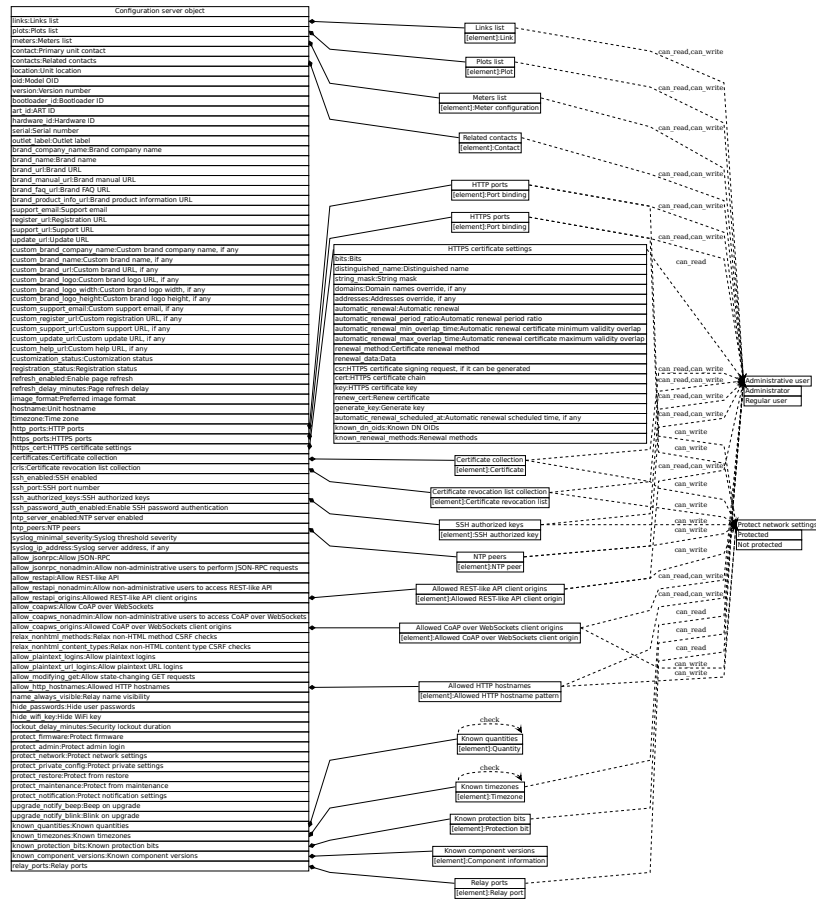
```
[{'fixed_value': None, 'has_fixed_value': False, 'id': 'auth_login'}, {'
↵ fixed_value': False, 'has_fixed_value': True, 'id': 'user_state'}]
```

[Browse more samples](#)

See also [Event parameters: Event parameter](#)

4 Configuration server object

object	config/
Object representing configuration server	



This object contains the following items:

links	Links list
plots	Plots list
meters	Meters list
contact	Primary unit contact
contacts	Related contacts
location	Unit location
oid	Model OID
version	Version number
bootloader_id	Bootloader ID
art_id	ART ID
hardware_id	Hardware ID
serial	Serial number
outlet_label	Outlet label
brand_company_name	Brand company name
brand_name	Brand name
brand_url	Brand URL
brand_manual_url	Brand manual URL
brand_faq_url	Brand FAQ URL

brand_product_info_url	Brand product information URL
support_email	Support email
register_url	Registration URL
support_url	Support URL
update_url	Update URL
custom_brand_company_name	Custom brand company name, if any
custom_brand_name	Custom brand name, if any
custom_brand_url	Custom brand URL, if any
custom_brand_logo	Custom brand logo URL, if any
custom_brand_logo_width	Custom brand logo width, if any
custom_brand_logo_height	Custom brand logo height, if any
custom_support_email	Custom support email, if any
custom_register_url	Custom registration URL, if any
custom_support_url	Custom support URL, if any
custom_update_url	Custom update URL, if any
custom_help_url	Custom help URL, if any
customization_status	Customization status
registration_status	Registration status
refresh_enabled	Enable page refresh
refresh_delay_minutes	Page refresh delay
image_format	Preferred image format
hostname	Unit hostname
timezone	Time zone
http_ports	HTTP ports
https_ports	HTTPS ports
https_cert	HTTPS certificate settings
certificates	Certificate collection
crls	Certificate revocation list collection
ssh_enabled	SSH enabled
ssh_port	SSH port number
ssh_authorized_keys	SSH authorized keys
ssh_password_auth_enabled	Enable SSH password authentication
ntp_server_enabled	NTP server enabled
ntp_peers	NTP peers
syslog_minimal_severity	Syslog threshold severity
syslog_ip_address	Syslog server address, if any
allow_jsonrpc	Allow JSON-RPC
allow_jsonrpc_nonadmin	Allow non-administrative users to perform JSON-RPC requests
allow_restapi	Allow REST-like API
allow_restapi_nonadmin	Allow non-administrative users to access REST-like API
allow_restapi_origins	Allowed REST-like API client origins
allow_coapws	Allow CoAP over WebSockets
allow_coapws_nonadmin	Allow non-administrative users to access CoAP over WebSockets
allow_coapws_origins	Allowed CoAP over WebSockets client origins
relax_nonhtml_methods	Relax non-HTML method CSRF checks
relax_nonhtml_content_types	Relax non-HTML content type CSRF checks
allow_plaintext_logins	Allow plaintext logins
allow_plaintext_url_logins	Allow plaintext URL logins
allow_modifying_get	Allow state-changing GET requests
allow_http_hostnames	Allowed HTTP hostnames

name_always_visible	Relay name visibility
hide_passwords	Hide user passwords
hide_wifi_key	Hide WiFi key
lockout_delay_minutes	Security lockout duration
protect_firmware	Protect firmware
protect_admin	Protect admin login
protect_network	Protect network settings
protect_private_config	Protect private settings
protect_restore	Protect from restore
protect_maintenance	Protect from maintenance
protect_notification	Protect notification settings
upgrade_notify_beep	Beep on upgrade
upgrade_notify_blink	Blink on upgrade
known_quantities	Known quantities
known_timezones	Known timezones
known_protection_bits	Known protection bits
known_component_versions	Known component versions
relay_ports	Relay ports

Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/config/', auth=auth, headers=headers, ↵
↳ json=<...>)
```

Sample JS request read command:

```
request.get({url:"config/"}, function(error, response, body) {console.log(body)});
```

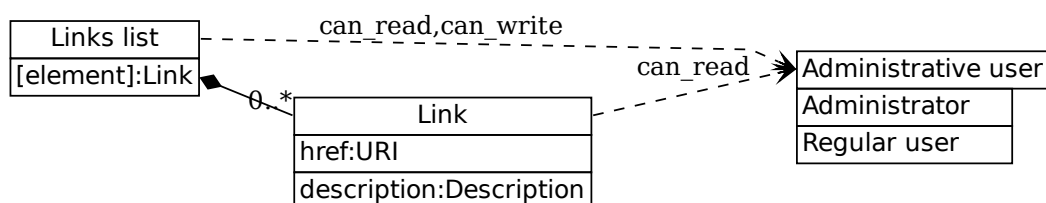
⇒

<...>

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4.1 Links list

array	config/links/
List of user-defined links to display in the web UI	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array represents a value in persistent storage.

This array contains [Link](#) elements.

Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "[{"description\":"test ↵
↵ 5\","href\":"test_url7\"},{\"description\":"test 3\","href\":" ↵
↵ test_url5\"}]" "http://192.168.0.100/restapi/config/links/"
```

Sample CLI link creation command:

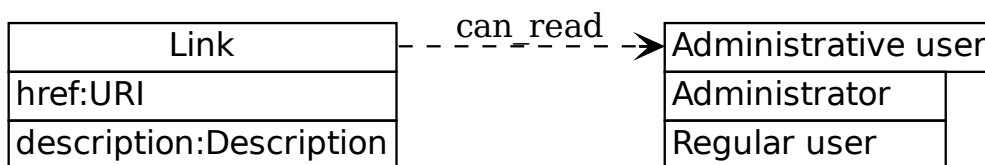
```
uom insert "config/links/0" "{\"description\":"test 5\","href\":"test_url7\"}"
```

[Browse more samples](#)

See also [Links list: Link](#)

4.2 Links list: Link

object	config/links/N/
User-defined link	



Retrieving the value is denied if not [administrative user](#)

This object represents a value in persistent storage.

This object contains the following items:

href	URI
description	Description

Sample JS request read command (note that `_link_index` is a variable):

```
request.get({url:"config/links/"+_link_index.toString()+"/"},function(error, ↵
↵ response,body) {console.log(body)});
```

⇒

```
{"description":"test 5","href":"test_url7"}
```

Sample curl read command (note that :link_index is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/links/:link_index/"
```

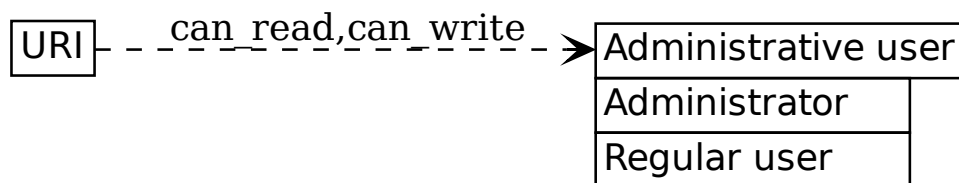
⇒

```
{"description":"test 3","href":"test_url5"}
```

[Browse more samples](#)

4.2.1 URI

string	config/links/N/href/
The target URI of the link	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample uom library read command (note that _link_index is a variable):

```
print(uom.dump(uom.config.links[_link_index].href))
```

⇒

```
"test_url5"
```

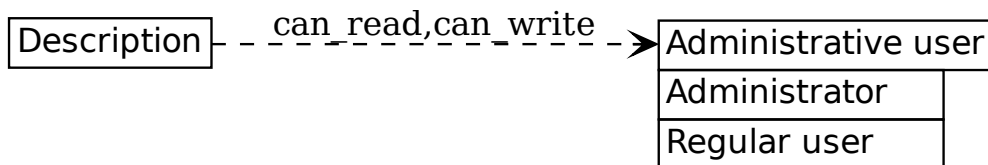
Sample curl write command (note that :link_index is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"test_url7\"" "http ↵
↵ ://192.168.0.100/restapi/config/links/:link_index/href/"
```

[Browse more samples](#)

4.2.2 Description

string	config/links/N/description/
The textual representation of the link	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample uom library write command (note that `_link_index` is a variable):

```
uom.config.links[_link_index].description="test 5"
```

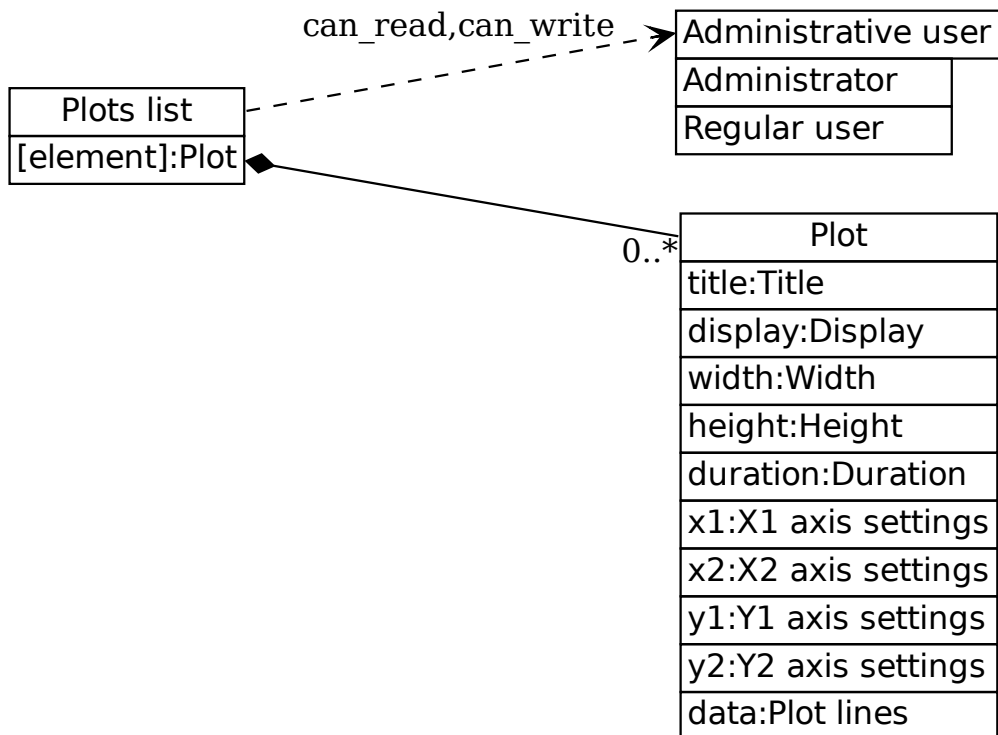
Sample requests write command (note that `_link_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/links/'+str(_link_index)+'/' +↵
↵ description/', auth=auth, headers=headers, json='test 3')
```

[Browse more samples](#)

4.3 Plots list

array	config/plots/
List of plots to display in the web UI	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array represents a value in persistent storage.

This array contains [Plot](#) elements.

Sample `uom` library read command:

```
print(uom.dump(uom.config.plots))
```

⇒

<...>

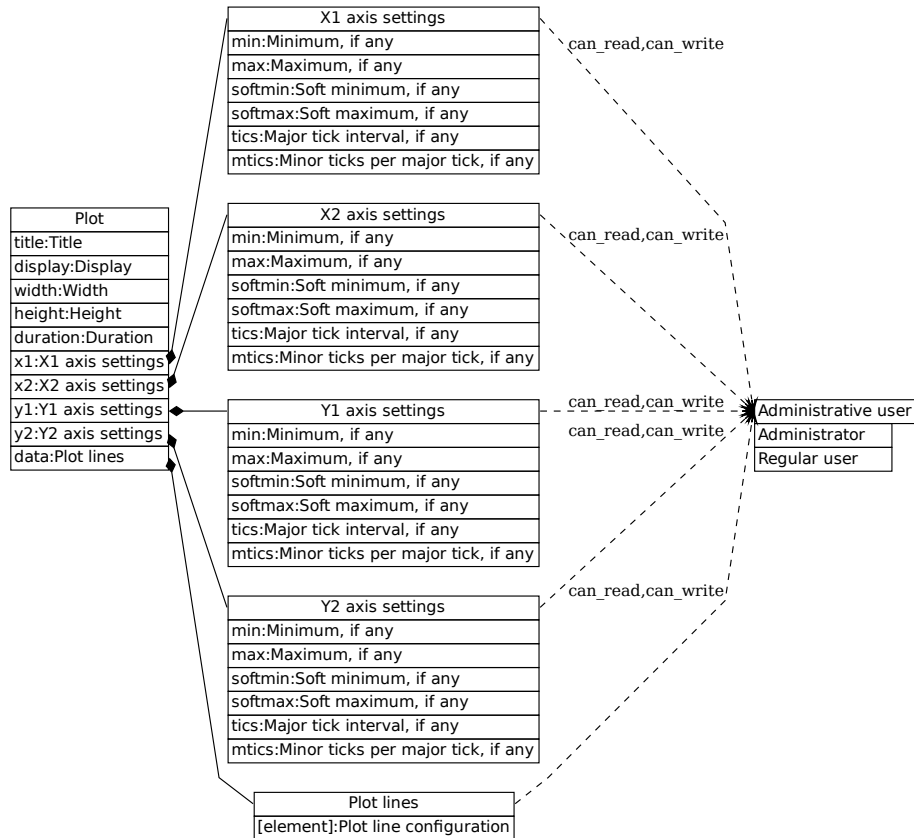
Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/config/plots/', auth=auth, headers= ↵
↵ headers, json=<...>)
```

[Browse more samples](#)

4.3.1 Plot

object	config/plots/N/
Configuration of plot for measured values	



This object contains the following items:

title	Title
display	Display
width	Width
height	Height
duration	Duration
x1	X1 axis settings
x2	X2 axis settings
y1	Y1 axis settings
y2	Y2 axis settings
data	Plot lines

Sample curl write command (note that :plot_index is a URL template argument):

```

curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
  ↳ json" -H "Accept: application/json" --data-binary '{"x2":{"min":null,"
  ↳ softmax":null,"max":null,"tics":null,"mtics":null,"softmin":null
  ↳ }, "data":[{"ds":"buses.1.voltage","style":{"type":"solid","
  ↳ style":"lines","width":1,"color":"FF0000","axes":"x1y1","
  ↳ marker":"plus","size":0},"title":"Bus B voltage"}],"ds":"buses
  
```



```

↪ .1.current\", \"style\": {\"type\": \"solid\", \"style\": \"lines\", \"width ↪
↪ \": 1, \"color\": \"0000FF\", \"axes\": \"x1y2\", \"marker\": \"plus\", \"size ↪
↪ \": 0}, \"title\": \"Bus B current\"}], \"width\": 640, \"title\": \"Bus B status ↪
↪ \", \"y2\": {\"min\": 0, \"softmax\": 1, \"max\": null, \"tics\": null, \"mtics\": ↪
↪ null, \"softmin\": null}, \"height\": 480, \"y1\": {\"min\": 0, \"softmax\": 110, ↪
↪ max\": null, \"tics\": null, \"mtics\": null, \"softmin\": null}, \"x1\": {\"min\": ↪
↪ null, \"softmax\": null, \"max\": null, \"tics\": null, \"mtics\": null, \"softmin ↪
↪ \": null}, \"display\": true} "http://192.168.0.100/restapi/config/plots/: ↪
↪ plot_index/"

```

Sample requests deletion command (note that `_plot_index` is a variable):

```

requests.delete('http://192.168.0.100/restapi/config/plots/'+str(_plot_index) ↪
↪ + '/', auth=auth, headers=headers)

```

[Browse more samples](#)

See also [Plot: Title](#)

See also [Plot: Display](#)

See also [Plot: Width](#)

See also [Plot: Height](#)

See also [Plot: Duration](#)

See also [Plot: X1 axis settings](#)

See also [Plot: X2 axis settings](#)

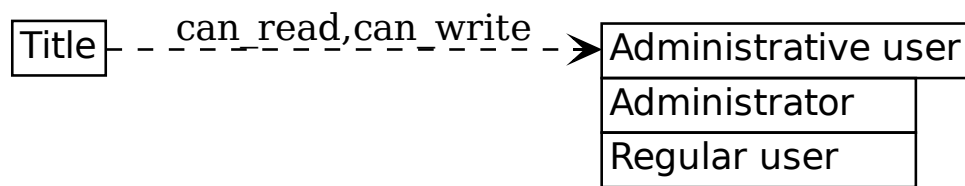
See also [Plot: Y1 axis settings](#)

See also [Plot: Y2 axis settings](#)

See also [Plot: Plot lines](#)

4.4 Plot: Title

string	config/plots/N/title/
The title of the plot	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample JS request write command (note that `_plot_index` is a variable):

```
request.put ({url:"config/plots/"+_plot_index.toString()+"/title/",body:"Bus ↵
↵ currents"});
```

Sample requests read command (note that `_plot_index` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/config/plots/'+str(_plot_index) ↵
↵ +'/title/', auth=auth, headers=headers).json())
```

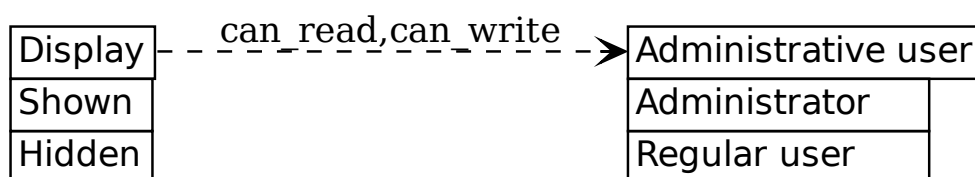
⇒

'Bus B status'

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4.5 Plot: Display

sum (boolean)	config/plots/N/display/
Indicates whether the plot should be displayed	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Shown	The plot is shown
constant false	Hidden	The plot is hidden

Sample `requests` write command (note that `_plot_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'/' +
    ↪ display/', auth=auth, headers=headers, json=False)
```

Sample CLI read command (note that `plot_index` is a variable):

```
uom get "config/plots/${plot_index}/display"
```

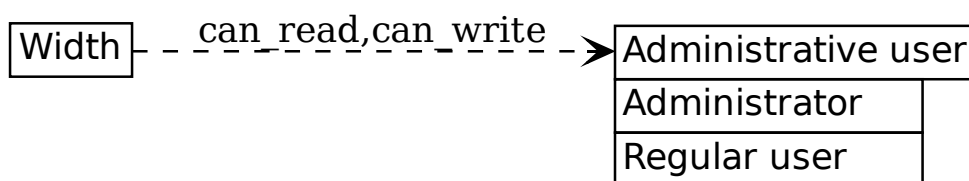
⇒

```
true
```

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4.6 Plot: Width

number	config/plots/N/width/
The width of the plot	



The value represents screen length, the standard unit of which is the pixel (px).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample `curl` write command (note that `:plot_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "640" "http ↵
↵ ://192.168.0.100/restapi/config/plots/:plot_index/width/"
```

Sample `uom` library read command (note that `_plot_index` is a variable):

```
print(uom.dump(uom.config.plots[_plot_index].width))
```

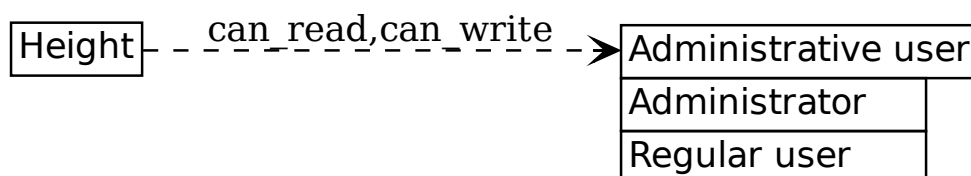
⇒

640

[Browse more samples](#)

4.7 Plot: Height

number	config/plots/N/height/
The height of the plot	



The value represents screen length, the standard unit of which is the pixel (px).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample CLI write command (note that `plot_index` is a variable):

```
uom set "config/plots/${plot_index}/height" "480"
```

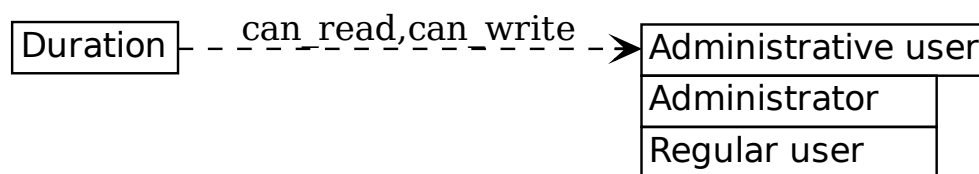
Sample `curl` write command (note that `:plot_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "480" "http ↵
↵ ://192.168.0.100/restapi/config/plots/:plot_index/height/"
```

[Browse more samples](#)

4.8 Plot: Duration

number	config/plots/N/duration/
The duration of the plot	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater or equal to 0

The value is unconditionally set to 86400 on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample `curl` read command (note that `:plot_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/plots/:plot_index/duration/"
```

⇒

86400

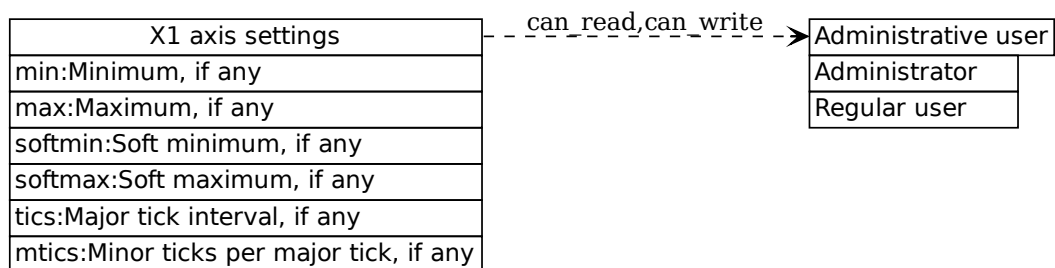
Sample JS request write command (note that `_plot_index` is a variable):

```
request.put({url:"config/plots/"+_plot_index.toString()+"/duration/",body:86400}) ↵
↵ ;
```

[Browse more samples](#)

4.9 Plot: X1 axis settings

object	config/plots/N/x1/
Configuration for X1 axis	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This object is composite, i.e. is modified as a whole.

This object represents a value in persistent storage.

This object contains the following items:

min	Minimum, if any
max	Maximum, if any
softmin	Soft minimum, if any
softmax	Soft maximum, if any
tics	Major tick interval, if any
mtics	Minor ticks per major tick, if any

Sample uom library read command (note that `_plot_index` is a variable):

```
print(uom.dump(uom.config.plots[_plot_index].x1))
```

⇒

```
{max=null,min=null,mtics=null,softmax=null,softmin=null,tics=null}
```

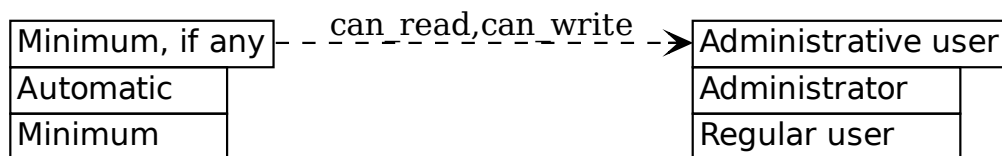
Sample requests write command (note that `_plot_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'/x1'
    ↪ '/',auth=auth,headers=headers,json={'min': None, 'softmax': None, 'max':
    ↪ None, 'tics': None, 'mtics': None, 'softmin': None})
```

[Browse more samples](#)

4.9.1 Minimum, if any

sum (optional number)	config/plots/N/x1/min/
Minimum value to display on the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The maximum value is derived from data and the soft maximum
number	Minimum	Minimum value to display on the axis

Sample `requests` read command (note that `_plot_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/config/plots/'+str(_plot_index) +
  'x1/min/', auth=auth, headers=headers).json())
```

⇒

None

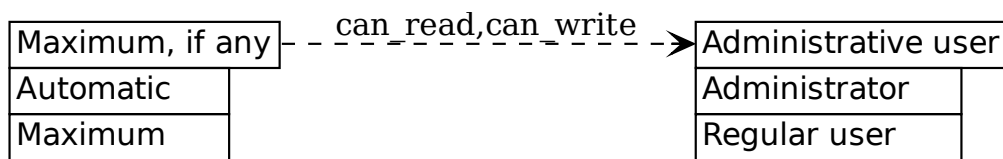
Sample `requests` write command (note that `_plot_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'x1/
  min/', auth=auth, headers=headers, json=None)
```

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4.9.2 Maximum, if any

sum (optional number)	config/plots/N/x1/max/
Maximum value to display on the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The minimum value is derived from data and the soft minimum
number	Maximum	Maximum value to display on the axis

Sample uom library write command (note that `_plot_index` is a variable):

```
uom.config.plots[_plot_index].x1.max=null
```

Sample requests read command (note that `_plot_index` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/config/plots/'+str(_plot_index) +  
    'x1/max/', auth=auth, headers=headers).json())
```

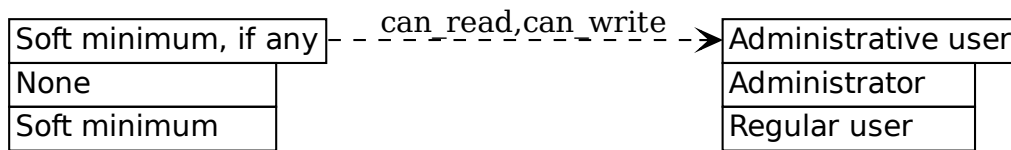
⇒

None

[Browse more samples](#)

4.9.3 Soft minimum, if any

sum (optional number)	config/plots/N/x1/softmin/
Minimum value to display on the axis unless values exist below it, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No soft maximum defined
number	Soft minimum	Minimum value to display on the axis unless values exist below it

Sample `requests` write command (note that `_plot_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'x1/softmin/', auth=auth, headers=headers, json=None)
```

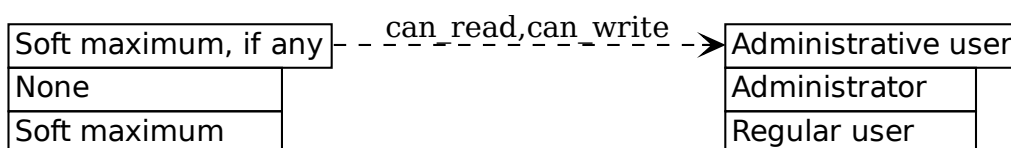
Sample JS request write command (note that `_plot_index` is a variable):

```
request.put({url:"config/plots/"+_plot_index.toString()+"/x1/softmin/",body:null})
```

[Browse more samples](#)

4.9.4 Soft maximum, if any

sum (optional number)	config/plots/N/x1/softmax/
Maximum value to display on the axis unless values exist above it, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No soft minimum defined
number	Soft maximum	Maximum value to display on the axis unless values exist above it

Sample CLI write command (note that `plot_index` is a variable):

```
uom set "config/plots/${plot_index}/x1/softmax" "null"
```

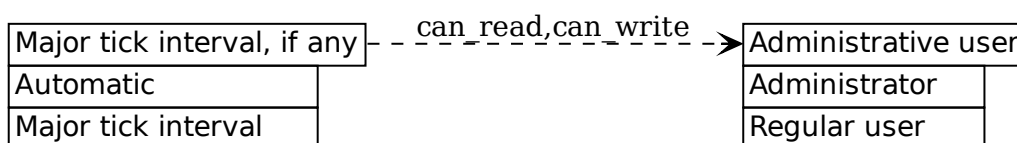
Sample `requests` write command (note that `_plot_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'x1/ ↵
↵ softmax/', auth=auth, headers=headers, json=None)
```

[Browse more samples](#)

4.9.5 Major tick interval, if any

sum (optional number)	config/plots/N/x1/tics/
The interval, in value units, between major ticks of the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The tick interval is derived from data and size
number	Major tick interval	The interval, in value units, between major ticks of the axis

Sample CLI read command (note that `plot_index` is a variable):

```
uom get "config/plots/${plot_index}/x1/tics"
```

⇒

```
null
```

Sample requests write command (note that `_plot_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'x1/ ↵
↵ tics/', auth=auth, headers=headers, json=None)
```

[Browse more samples](#)

4.9.6 Minor ticks per major tick, if any

sum (optional number)	config/plots/N/x1/mtics/
The number of minor ticks between two major ticks, if any	

Minor ticks per major tick, if any	can read, can write	Administrative user
None		Administrator
Minor ticks per major tick		Regular user

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	There are no minor ticks	all of the following is true: • the value is an integer • the value is greater or equal to 0
number	Minor ticks per major tick	The number of minor ticks between two major ticks	

Sample JS request write command (note that `_plot_index` is a variable):

```
request.put({url:"config/plots/"+_plot_index.toString()+"/x1/mtics/",body:null});
```

Sample uom library read command (note that `_plot_index` is a variable):

```
print(uom.dump(uom.config.plots[_plot_index].x1.mtics))
```

⇒

null

[Browse more samples](#)

4.10 Plot: X2 axis settings

object	config/plots/N/x2/
Configuration for X2 axis	

X2 axis settings	can_read, can_write	Administrative user
min: Minimum, if any		Administrator
max: Maximum, if any		Regular user
softmin: Soft minimum, if any		
softmax: Soft maximum, if any		
tics: Major tick interval, if any		
mtics: Minor ticks per major tick, if any		

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This object is composite, i.e. is modified as a whole.

This object represents a value in persistent storage.

This object contains the following items:

min	Minimum, if any
max	Maximum, if any
softmin	Soft minimum, if any
softmax	Soft maximum, if any
tics	Major tick interval, if any
mtics	Minor ticks per major tick, if any

Sample JS request read command (note that `_plot_index` is a variable):

```
request.get({url:"config/plots/"+_plot_index.toString()+"/x2/"},function(error, ↵
    ↵ response,body) {console.log(body)});
```

⇒

```
{ "min":null, "softmax":null, "max":null, "tics":null, "mtics":null, "softmin":null }
```

Sample uom library read command (note that `_plot_index` is a variable):

```
print(uom.dump(uom.config.plots[_plot_index].x2))
```

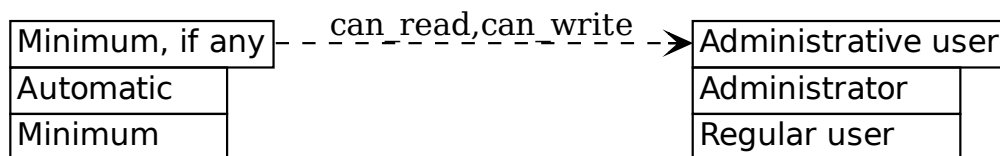
⇒

```
{max=null,min=null,mtics=null,softmax=null,softmin=null,tics=null}
```

[Browse more samples](#)

4.10.1 Minimum, if any

sum (optional number)	config/plots/N/x2/min/
Minimum value to display on the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The maximum value is derived from data and the soft maximum
number	Minimum	Minimum value to display on the axis

Sample requests write command (note that `_plot_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'x2/ ↔
↔ min/', auth=auth, headers=headers, json=None)
```

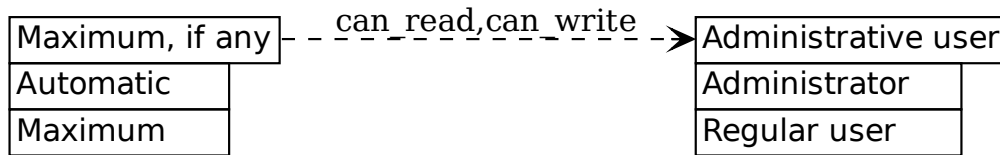
Sample JS request write command (note that `_plot_index` is a variable):

```
request.put({url:"config/plots/"+_plot_index.toString()+"/x2/min/",body:null});
```

[Browse more samples](#)

4.10.2 Maximum, if any

sum (optional number)	config/plots/N/x2/max/
Maximum value to display on the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The minimum value is derived from data and the soft minimum
number	Maximum	Maximum value to display on the axis

Sample JS request read command (note that `_plot_index` is a variable):

```
request.get({url:"config/plots/"+_plot_index.toString()+"/x2/max/"},function(↵
  ↵ error,response,body) {console.log(body)});
```

⇒

null

Sample curl read command (note that `:plot_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵
  ↵ restapi/config/plots/:plot_index/x2/max/"
```

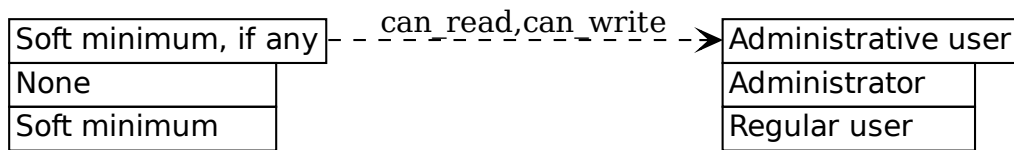
⇒

null

[Browse more samples](#)

4.10.3 Soft minimum, if any

sum (optional number)	config/plots/N/x2/softmin/
Minimum value to display on the axis unless values exist below it, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No soft maximum defined
number	Soft minimum	Minimum value to display on the axis unless values exist below it

Sample `requests` write command (note that `_plot_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'x2/ ↵
↵ softmin/', auth=auth, headers=headers, json=None)
```

Sample `requests` read command (note that `_plot_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/config/plots/'+str(_plot_index) ↵
↵ +'x2/softmin/', auth=auth, headers=headers).json())
```

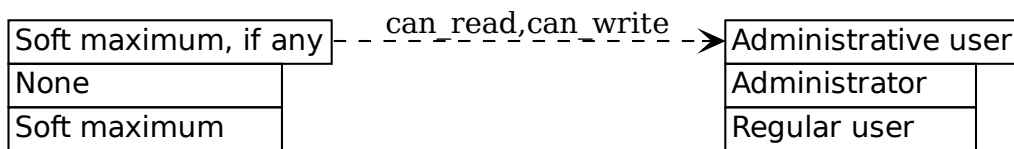
⇒

None

[Browse more samples](#)

4.10.4 Soft maximum, if any

sum (optional number)	config/plots/N/x2/softmax/
Maximum value to display on the axis unless values exist above it, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No soft minimum defined
number	Soft maximum	Maximum value to display on the axis unless values exist above it

Sample `uom` library write command (note that `_plot_index` is a variable):

```
uom.config.plots[_plot_index].x2.softmax=null
```

Sample `requests` read command (note that `_plot_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)
    ↪ '+'/x2/softmax/', auth=auth, headers=headers).json())
```

⇒

None

[Browse more samples](#)

4.10.5 Major tick interval, if any

sum (optional number)	config/plots/N/x2/tics/
The interval, in value units, between major ticks of the axis, if any	

Major tick interval, if any	--can_read,can_write-->	Administrative user
Automatic		Administrator
Major tick interval		Regular user

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The tick interval is derived from data and size
number	Major tick interval	The interval, in value units, between major ticks of the axis

Sample JS request write command (note that `_plot_index` is a variable):

```
request.put({url:"config/plots/"+_plot_index.toString()+"/x2/tics/",body:null});
```

Sample curl read command (note that `:plot_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/plots/:plot_index/x2/tics/"
```

⇒

null

[Browse more samples](#)

4.10.6 Minor ticks per major tick, if any

sum (optional number)	config/plots/N/x2/mtics/
The number of minor ticks between two major ticks, if any	

Minor ticks per major tick, if any	--can_read,can_write-->	Administrative user
None		Administrator
Minor ticks per major tick		Regular user

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	There are no minor ticks	
number	Minor ticks per major tick	The number of minor ticks between two major ticks	all of the following is true: • the value is an integer • the value is greater or equal to 0

Sample `requests` read command (note that `_plot_index` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)
    ↪ '+'/x2/mtics/', auth=auth, headers=headers).json())
```

⇒

None

Sample CLI read command (note that `plot_index` is a variable):

```
uom get "config/plots/${plot_index}/x2/mtics"
```

⇒

null

[Browse more samples](#)

4.11 Plot: Y1 axis settings

object	config/plots/N/y1/
Configuration for Y1 axis	

Y1 axis settings	can_read, can_write	Administrative user
min: Minimum, if any		Administrator
max: Maximum, if any		Regular user
softmin: Soft minimum, if any		
softmax: Soft maximum, if any		
tics: Major tick interval, if any		
mtics: Minor ticks per major tick, if any		

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This object is composite, i.e. is modified as a whole.

This object represents a value in persistent storage.

This object contains the following items:

min	Minimum, if any
max	Maximum, if any
softmin	Soft minimum, if any
softmax	Soft maximum, if any
tics	Major tick interval, if any
mtics	Minor ticks per major tick, if any

Sample `curl` read command (note that `:plot_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/plots/:plot_index/y1/"
```

⇒

```
{"min":0,"softmax":110,"max":null,"tics":null,"mtics":null,"softmin":null}
```

Sample `uom` library read command (note that `_plot_index` is a variable):

```
print(uom.dump(uom.config.plots[_plot_index].y1))
```

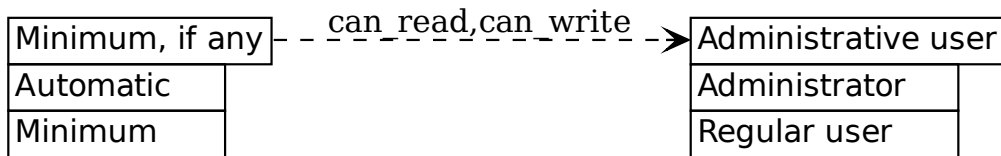
⇒

```
{max=null,min=0,mtics=null,softmax=null,softmin=null,tics=null}
```

[Browse more samples](#)

4.11.1 Minimum, if any

sum (optional number)	config/plots/N/y1/min/
Minimum value to display on the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The maximum value is derived from data and the soft maximum
number	Minimum	Minimum value to display on the axis

Sample `curl` write command (note that `:plot_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "0" "http ↵
↵ ://192.168.0.100/restapi/config/plots/:plot_index/y1/min/"
```

Sample CLI read command (note that `plot_index` is a variable):

```
uom get "config/plots/${plot_index}/y1/min"
```

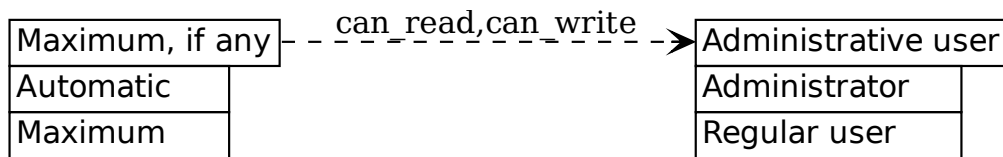
⇒

0

[Browse more samples](#)

4.11.2 Maximum, if any

sum (optional number)	config/plots/N/y1/max/
Maximum value to display on the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The minimum value is derived from data and the soft minimum
number	Maximum	Maximum value to display on the axis

Sample JS request write command (note that `_plot_index` is a variable):

```
request.put ({url:"config/plots/"+_plot_index.toString()+"/y1/max/",body:null});
```

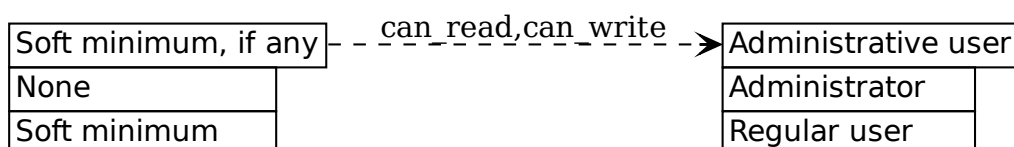
Sample CLI write command (note that `plot_index` is a variable):

```
uom set "config/plots/${plot_index}/y1/max" "null"
```

[Browse more samples](#)

4.11.3 Soft minimum, if any

sum (optional number)	config/plots/N/y1/softmin/
Minimum value to display on the axis unless values exist below it, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No soft maximum defined
number	Soft minimum	Minimum value to display on the axis unless values exist below it

Sample `requests` write command (note that `_plot_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'y1/ ↔
↔ softmax/', auth=auth, headers=headers, json=None)
```

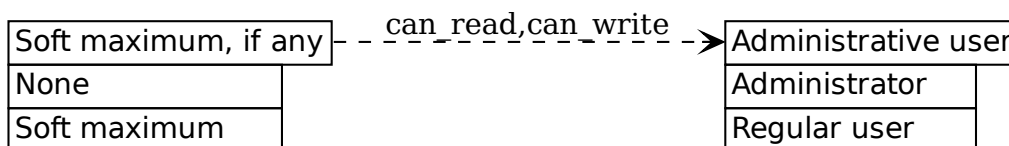
Sample `uom` library write command (note that `_plot_index` is a variable):

```
uom.config.plots[_plot_index].y1.softmin=null
```

[Browse more samples](#)

4.11.4 Soft maximum, if any

sum (optional number)	config/plots/N/y1/softmax/
Maximum value to display on the axis unless values exist above it, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No soft minimum defined
number	Soft maximum	Maximum value to display on the axis unless values exist above it

Sample CLI write command (note that `plot_index` is a variable):

```
uom set "config/plots/${plot_index}/y1/softmax" "null"
```

Sample uom library read command (note that `_plot_index` is a variable):

```
print(uom.dump(uom.config.plots[_plot_index].y1.softmax))
```

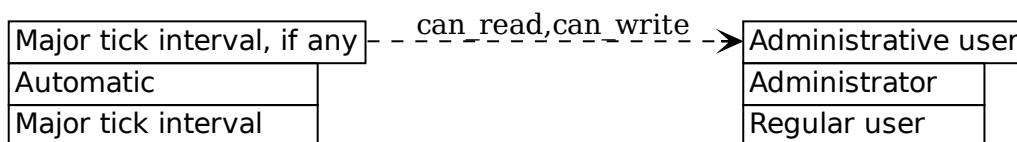
⇒

1

[Browse more samples](#)

4.11.5 Major tick interval, if any

sum (optional number)	config/plots/N/y1/tics/
The interval, in value units, between major ticks of the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The tick interval is derived from data and size
number	Major tick interval	The interval, in value units, between major ticks of the axis

Sample JS request read command (note that `_plot_index` is a variable):

```
request.get({url:"config/plots/"+_plot_index.toString()+"/y1/tics/"},function(↵
    ↵ error,response,body) {console.log(body)});
```

⇒

null

Sample CLI read command (note that `plot_index` is a variable):

```
uom get "config/plots/${plot_index}/y1/tics"
```

⇒

null

[Browse more samples](#)

4.11.6 Minor ticks per major tick, if any

sum (optional number)	config/plots/N/y1/mtics/
The number of minor ticks between two major ticks, if any	

Minor ticks per major tick, if any	--can_read,can_write-->	Administrative user
None		Administrator
Minor ticks per major tick		Regular user

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	There are no minor ticks	
number	Minor ticks per major tick	The number of minor ticks between two major ticks	all of the following is true: • the value is an integer • the value is greater or equal to 0

Sample curl write command (note that :plot_index is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "null" "http ↵
↵ ://192.168.0.100/restapi/config/plots/:plot_index/y1/mtics/"
```

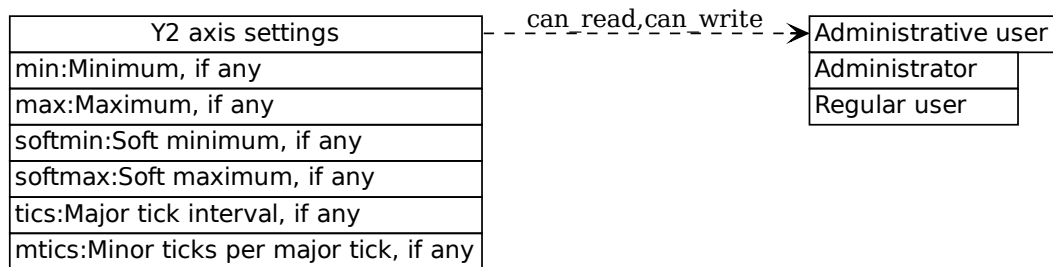
Sample CLI write command (note that plot_index is a variable):

```
uom set "config/plots/${plot_index}/y1/mtics" "null"
```

[Browse more samples](#)

4.12 Plot: Y2 axis settings

object	config/plots/N/y2/
Configuration for Y2 axis	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This object is composite, i.e. is modified as a whole.

This object represents a value in persistent storage.

This object contains the following items:

min	Minimum, if any
max	Maximum, if any
softmin	Soft minimum, if any
softmax	Soft maximum, if any
tics	Major tick interval, if any
mtics	Minor ticks per major tick, if any

Sample CLI write command (note that `plot_index` is a variable):

```
uom set "config/plots/${plot_index}/y2" "{\"min\":null,\"softmax\":null,\"max\": ↵
↵ null,\"tics\":null,\"mtics\":null,\"softmin\":null}"
```

Sample `requests` read command (note that `_plot_index` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/config/plots/'+str(_plot_index) ↵
↵ +'/y2/', auth=auth, headers=headers).json())
```

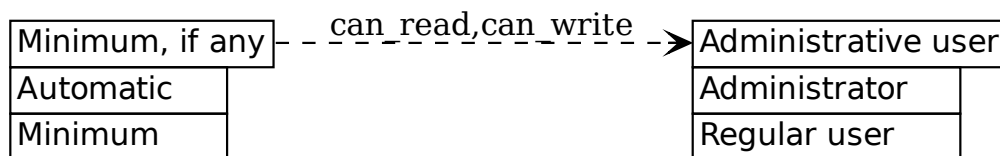
⇒

```
{'min': None, 'softmax': None, 'max': None, 'tics': None, 'mtics': None, 'softmin ↵
↵ ': None}
```

[Browse more samples](#)

4.12.1 Minimum, if any

sum (optional number)	config/plots/N/y2/min/
Minimum value to display on the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The maximum value is derived from data and the soft maximum
number	Minimum	Minimum value to display on the axis

Sample curl read command (note that :plot_index is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/plots/:plot_index/y2/min/"
```

⇒

0

Sample CLI read command (note that plot_index is a variable):

```
uom get "config/plots/${plot_index}/y2/min"
```

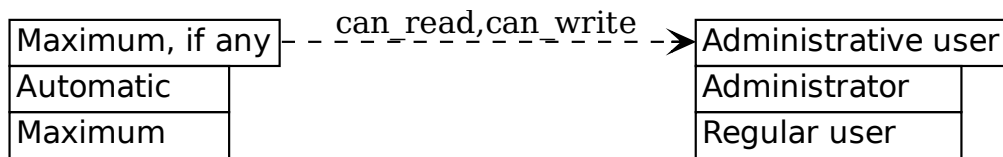
⇒

null

[Browse more samples](#)

4.12.2 Maximum, if any

sum (optional number)	config/plots/N/y2/max/
Maximum value to display on the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The minimum value is derived from data and the soft minimum
number	Maximum	Maximum value to display on the axis

Sample `requests` write command (note that `_plot_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'y2/ ↵
↵ max/', auth=auth, headers=headers, json=None)
```

Sample CLI read command (note that `plot_index` is a variable):

```
uom get "config/plots/${plot_index}/y2/max"
```

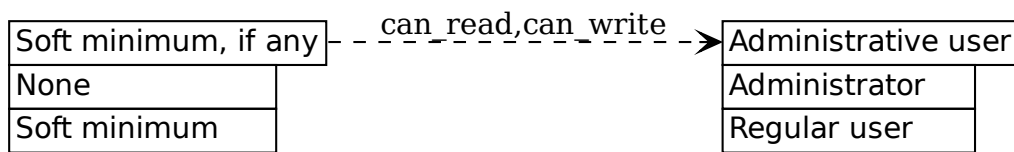
⇒

```
null
```

[Browse more samples](#)

4.12.3 Soft minimum, if any

sum (optional number)	config/plots/N/y2/softmin/
Minimum value to display on the axis unless values exist below it, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No soft maximum defined
number	Soft minimum	Minimum value to display on the axis unless values exist below it

Sample JS request read command (note that `_plot_index` is a variable):

```
request.get({url:"config/plots/"+_plot_index.toString()+"/y2/softmin/"},function(↵
↵ error,response,body) {console.log(body)});
```

⇒

null

Sample curl read command (note that `:plot_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵
↵ restapi/config/plots/:plot_index/y2/softmin/"
```

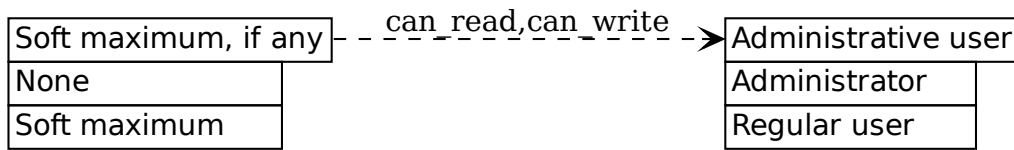
⇒

null

[Browse more samples](#)

4.12.4 Soft maximum, if any

sum (optional number)	config/plots/N/y2/softmax/
Maximum value to display on the axis unless values exist above it, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No soft minimum defined
number	Soft maximum	Maximum value to display on the axis unless values exist above it

Sample uom library write command (note that `_plot_index` is a variable):

```
uom.config.plots[_plot_index].y2.softmax=null
```

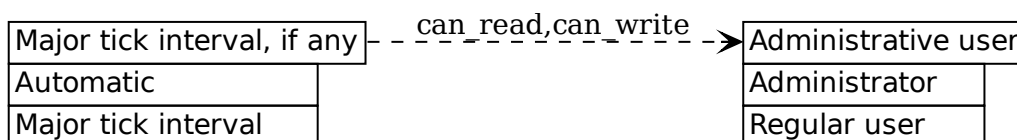
Sample JS request write command (note that `_plot_index` is a variable):

```
request.put({url:"config/plots/"+_plot_index.toString()+"/y2/softmax/",body:1});
```

[Browse more samples](#)

4.12.5 Major tick interval, if any

sum (optional number)	config/plots/N/y2/tics/
The interval, in value units, between major ticks of the axis, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Automatic	The tick interval is derived from data and size
number	Major tick interval	The interval, in value units, between major ticks of the axis

Sample `requests` read command (note that `_plot_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)
    ↪ '+/y2/tics/', auth=auth, headers=headers).json())
```

⇒

None

Sample `uom` library read command (note that `_plot_index` is a variable):

```
print(uom.dump(uom.config.plots[_plot_index].y2.tics))
```

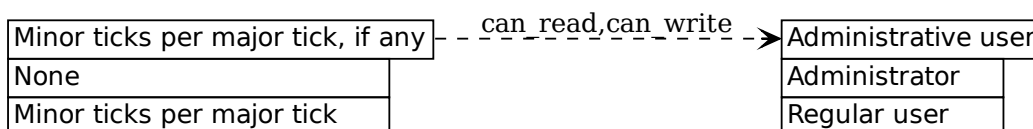
⇒

null

[Browse more samples](#)

4.12.6 Minor ticks per major tick, if any

sum (optional number)	config/plots/N/y2/mtics/
The number of minor ticks between two major ticks, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	There are no minor ticks	
number	Minor ticks per major tick	The number of minor ticks between two major ticks	all of the following is true: • the value is an integer • the value is greater or equal to 0

Sample curl read command (note that :plot_index is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/plots/:plot_index/y2/mtics/"
```

⇒

null

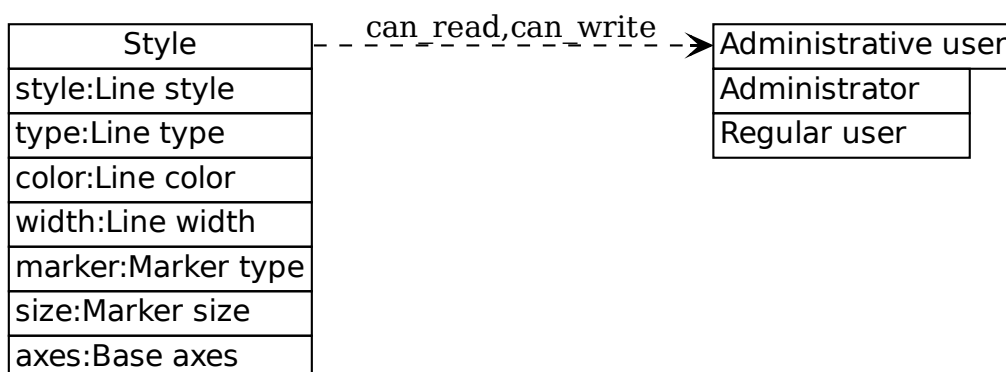
Sample CLI write command (note that plot_index is a variable):

```
uom set "config/plots/${plot_index}/y2/mtics" "null"
```

[Browse more samples](#)

4.13 Plot line configuration: Style

object	config/plots/N/data/N/style/
Style of the plot line	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This object is a part of a composite value which is modified as a whole.

This object represents a value in persistent storage.

This object contains the following items:

style	Line style
type	Line type
color	Line color
width	Line width
marker	Marker type
size	Marker size
axes	Base axes

Sample requests write command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'data' ↵
    ↵ '/' + str(_plot_line_configuration_index) + '/style/', auth=auth, headers=headers, ↵
    ↵ json={'type': 'solid', 'style': 'lines', 'width': 1, 'color': '0000FF', ' ↵
    ↵ axes': 'xlyl', 'marker': 'plus', 'size': 0})
```

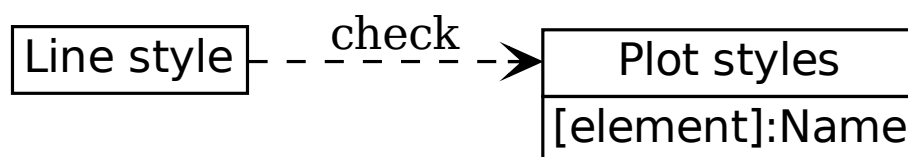
Sample JS request write command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
request.put({url:"config/plots/"+_plot_index.toString()+"/data/"+ ↵
    ↵ _plot_line_configuration_index.toString()+"/style/",body:{"type":"solid", ↵
    ↵ style:"lines","width":1,"color":"FF0000","axes":"xlyl","marker":"plus", ↵
    ↵ size:0}});
```

[Browse more samples](#)

4.13.1 Line style

string	config/plots/N/data/N/style/style/
The style of the line	



The value is subject to the following constraints: [plot styles\[the value\]](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample curl write command (note that `:plot_index` and `:plot_line_configuration_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"lines\"" "http ↵
↵ ://192.168.0.100/restapi/config/plots/:plot_index/data/: ↵
↵ plot_line_configuration_index/style/style/"
```

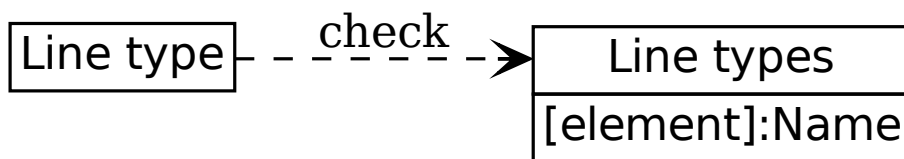
Sample uom library write command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
uom.config.plots[_plot_index].data[_plot_line_configuration_index].style.style=" ↵
↵ lines"
```

[Browse more samples](#)

4.13.2 Line type

string	config/plots/N/data/N/style/type/
The type of the line	



The value is subject to the following constraints: [line types\[the value\]](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample curl read command (note that `:plot_index` and `:plot_line_configuration_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/plots/:plot_index/data/:plot_line_configuration_index/style/ ↵
↵ type/"
```

⇒

```
"solid"
```

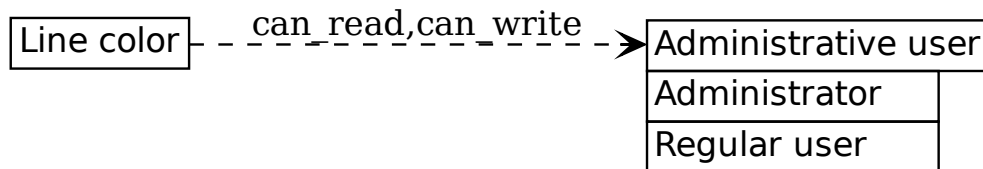
Sample CLI write command (note that `plot_index` and `plot_line_configuration_index` are variables):

```
uom set "config/plots/${plot_index}/data/${plot_line_configuration_index}/style/ ↵
↵ type" "\"solid\""
```

[Browse more samples](#)

4.13.3 Line color

string	config/plots/N/data/N/style/color/
The color of the line	



The value is subject to the following constraints: [the value](#) matches `^[0-9A-F]{6}$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample `uom` library write command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
uom.config.plots[_plot_index].data[_plot_line_configuration_index].style.color=" ↵
↵ FF0000"
```

Sample `requests` read command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/config/plots/'+str(_plot_index) ↵
↵ + '/data/'+str(_plot_line_configuration_index)+' /style/color/',auth=auth, ↵
↵ headers=headers).json())
```

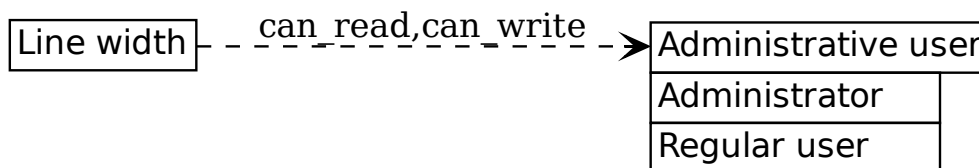
⇒

```
'FF0000'
```

[Browse more samples](#)

4.13.4 Line width

number	config/plots/N/data/N/style/width/
The width of the line	



The value represents screen length, the standard unit of which is the pixel (px).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

This number represents a value in persistent storage.

Sample `curl` write command (note that `:plot_index` and `:plot_line_configuration_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "1" "http ↵
↵ ://192.168.0.100/restapi/config/plots/:plot_index/data/: ↵
↵ plot_line_configuration_index/style/width/"
```

Sample `uom` library read command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
print(uom.dump(uom.config.plots[_plot_index].data[_plot_line_configuration_index ↵
↵ ].style.width))
```

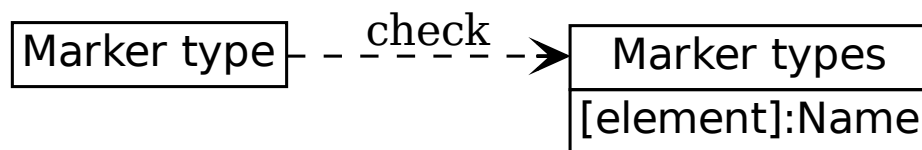
⇒

1

[Browse more samples](#)

4.13.5 Marker type

string	config/plots/N/data/N/style/marker/
The type of the marker	



The value is subject to the following constraints: [marker types](#)[\[the value\]](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample `requests` read command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
print (requests.get ('http://192.168.0.100/restapi/config/plots/'+str(_plot_index) ↵
    ↵ + '/data/'+str(_plot_line_configuration_index)+' /style/marker/', auth=auth, ↵
    ↵ headers=headers).json())
```

⇒

'plus'

Sample `uom` library read command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
print (uom.dump (uom.config.plots[_plot_index].data[_plot_line_configuration_index ↵
    ↵ ].style.marker))
```

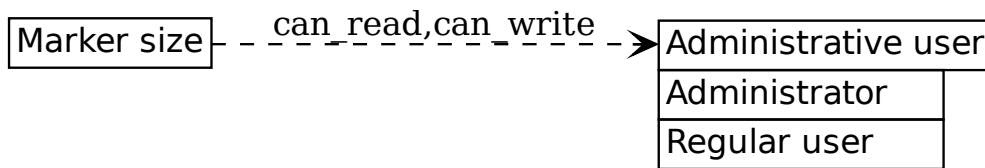
⇒

"plus"

[Browse more samples](#)

4.13.6 Marker size

number	config/plots/N/data/N/style/size/
The size of the markers	



The value represents screen length, the standard unit of which is the pixel (px).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

This number represents a value in persistent storage.

Sample uom library write command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
uom.config.plots[_plot_index].data[_plot_line_configuration_index].style.size=0
```

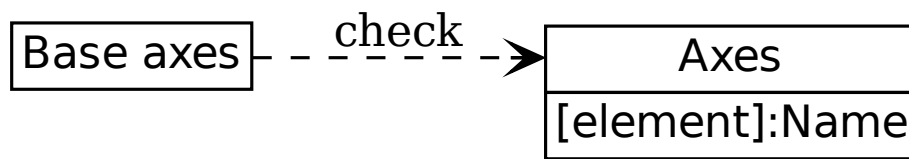
Sample requests write command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'data' ↵
↵ '/' + str(_plot_line_configuration_index) + '/style/size/', auth=auth, headers= ↵
↵ headers, json=0)
```

[Browse more samples](#)

4.13.7 Base axes

string	config/plots/N/data/N/style/axes/
The axes on which the line should be plotted. Units of lines plotted on the same axes must match	



The value is subject to the following constraints: [axes\[the value\]](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample `curl` write command (note that `:plot_index` and `:plot_line_configuration_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"xlyl\"" "http ↵
↵ ://192.168.0.100/restapi/config/plots/:plot_index/data/: ↵
↵ plot_line_configuration_index/style/axes/"
```

Sample `requests` read command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/config/plots/'+str(_plot_index) ↵
↵ +'/data/'+str(_plot_line_configuration_index)+'style/axes/',auth=auth, ↵
↵ headers=headers).json())
```

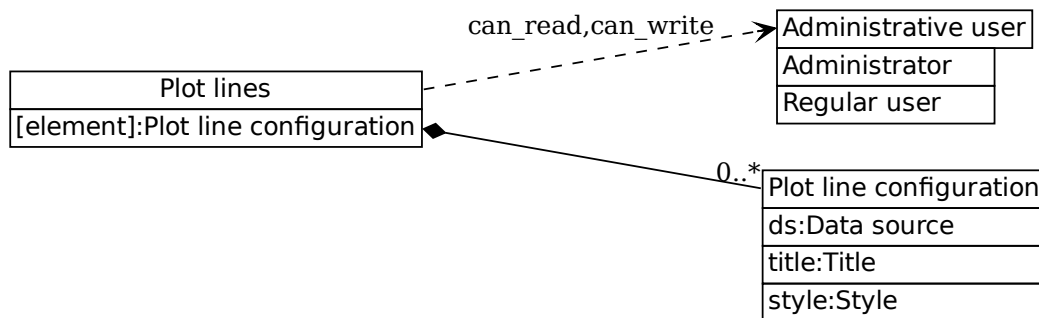
⇒

'xlyl'

[Browse more samples](#)

4.14 Plot: Plot lines

array	config/plots/N/data/
Configurations of values to plot	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

This array contains [Plot line configuration](#) elements.

Sample uom library read command (note that `_plot_index` is a variable):

```
print(uom.dump(uom.config.plots[_plot_index].data))
```

⇒

```
{'ds':'environment.temperature', style={'axes':'xlyl', color='FF0000', marker='plus',
↪ size=0, style='lines', type='solid', width=1}, title='Temperature'}}
```

Sample requests read command (note that `_plot_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)
↪ +'/data/', auth=auth, headers=headers).json())
```

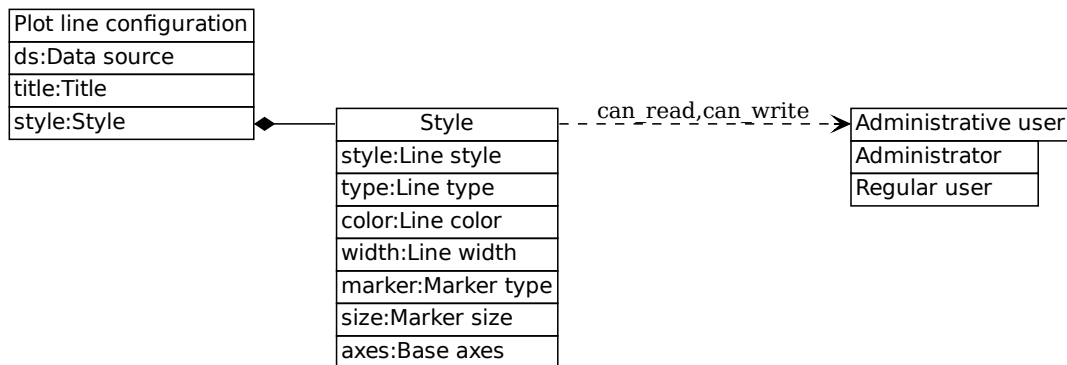
⇒

```
[{'ds': 'environment.temperature', 'style': {'type': 'solid', 'style': 'lines', '
↪ width': 1, 'color': 'FF0000', 'axes': 'xlyl', 'marker': 'plus', 'size': 0},
↪ 'title': 'Temperature'}]
```

[Browse more samples](#)

4.14.1 Plot line configuration

object	config/plots/N/data/N/
Properties of a plot line	



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

ds	Data source
title	Title
style	Style

Sample requests write command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
requests.put('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)+'data'
    ↪ '/' + str(_plot_line_configuration_index) + '/', auth=auth, headers=headers, json
    ↪ ={'ds': 'buses.1.current', 'style': {'type': 'solid', 'style': 'lines', '
    ↪ width': 1, 'color': '0000FF', 'axes': 'x1y2', 'marker': 'plus', 'size': 0},
    ↪ 'title': 'Bus B current'})
```

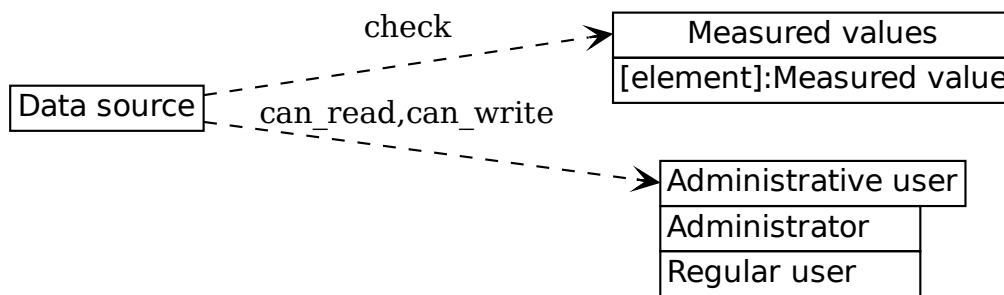
Sample curl write command (note that `:plot_index` and `:plot_line_configuration_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
    ↪ json" -H "Accept: application/json" --data-binary '{"ds\":"environment.
    ↪ temperature\","style\":{\"type\":\"solid\","style\":\"lines\","width
    ↪ \":1,\"color\":\"FF0000\","axes\":\"x1y1\","marker\":\"plus\","size
    ↪ \":0},\"title\":\"Temperature\"}' "http://192.168.0.100/restapi/config/
    ↪ plots/:plot_index/data/:plot_line_configuration_index/"
```

[Browse more samples](#)

string	config/plots/N/data/N/ds/
Identifier of the data source to use	

4.14.1.1 Data source



The value is subject to the following constraints: [measured values\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample JS request write command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
request.put({url:"config/plots/"+_plot_index.toString()+"/data/"+↵
↵ _plot_line_configuration_index.toString()+"/ds/",body:"relay_voltage"});
```

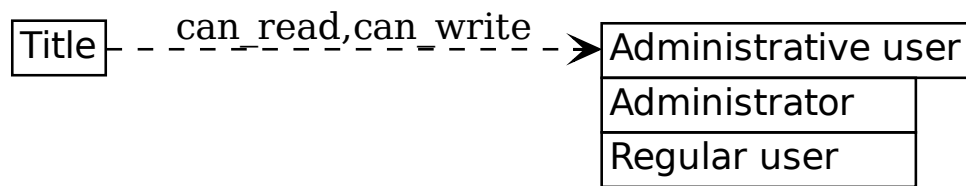
Sample CLI write command (note that `plot_index` and `plot_line_configuration_index` are variables):

```
uom set "config/plots/${plot_index}/data/${plot_line_configuration_index}/ds" "\↵
↵ environment.illuminance\""
```

[Browse more samples](#)

string	config/plots/N/data/N/title/
The title of the plot line	

4.14.1.2 Title



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample `requests` read command (note that `_plot_index` and `_plot_line_configuration_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/config/plots/'+str(_plot_index)
    ↳ +'/data/'+str(_plot_line_configuration_index)+'title/', auth=auth, headers=
    ↳ headers).json())
```

⇒

```
'Battery voltage'
```

Sample `curl` write command (note that `:plot_index` and `:plot_line_configuration_index` are URL template arguments):

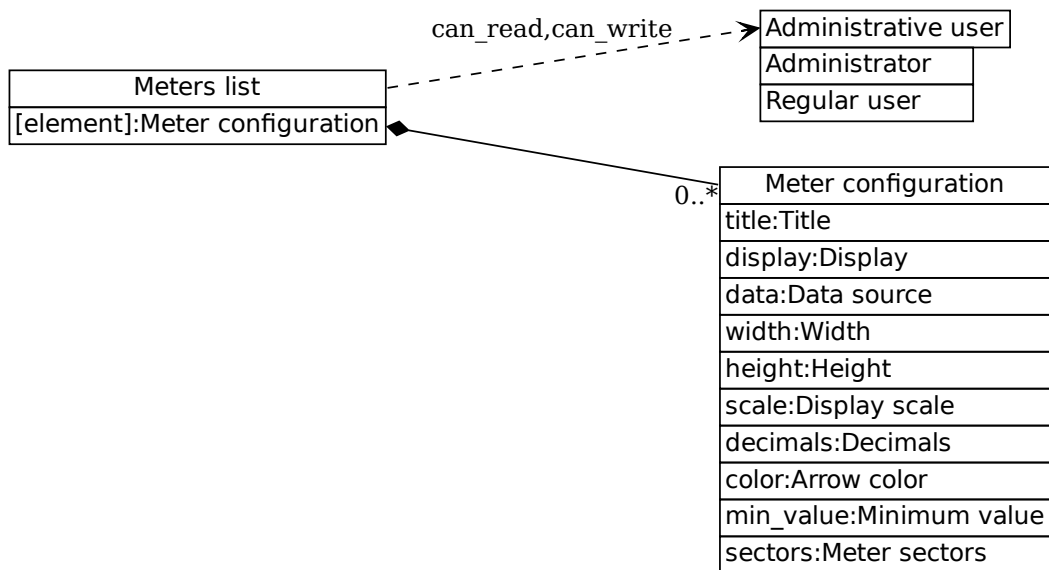
```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
    ↳ json" -H "Accept: application/json" --data-binary "\"Bus B voltage\"" "http
    ↳ ://192.168.0.100/restapi/config/plots/:plot_index/data/:
    ↳ plot_line_configuration_index/title/"
```

[Browse more samples](#)

See also [Plot line configuration: Style](#)

4.15 Meters list

array	config/meters/
List of meters to display in the web UI	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array represents a value in persistent storage.

This array contains [Meter configuration](#) elements.

Sample JS request write command:

```
request.put ({url:"config/meters/",body:<...>});
```

Sample JS request read command:

```
request.get ({url:"config/meters/"}, function (error, response, body) {console.log( ↵
    ↵ body) });
```

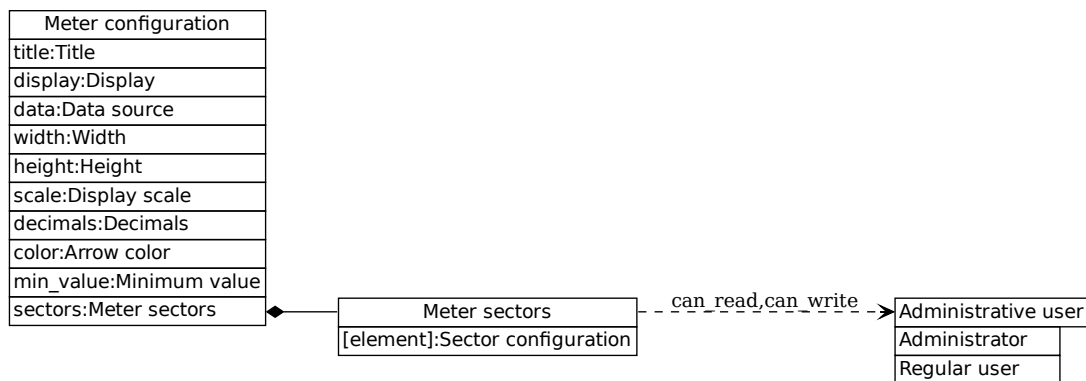
⇒

<...>

[Browse more samples](#)

4.15.1 Meter configuration

object	config/meters/N/
Configuration of meter for a measured value	



This object contains the following items:

title	Title
display	Display
data	Data source
width	Width
height	Height
scale	Display scale
decimals	Decimals
color	Arrow color
min_value	Minimum value
sectors	Meter sectors

Sample `curl` deletion command (note that `:meter_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X DELETE -H "Accept: application/json" \
  "http://192.168.0.100/restapi/config/meters/:meter_configuration_index/"
```

Sample requests `read` command (note that `_meter_configuration_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/config/meters/'+str(
  _meter_configuration_index)+'/', auth=auth, headers=headers).json())
```

⇒

[Browse more samples](#)

See also [Meter configuration: Title](#)

See also [Meter configuration: Display](#)

See also [Meter configuration: Data source](#)

See also [Meter configuration: Width](#)

See also [Meter configuration: Height](#)

See also [Meter configuration: Display scale](#)

See also [Meter configuration: Decimals](#)

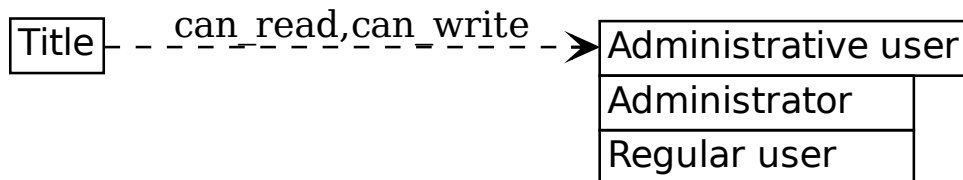
See also [Meter configuration: Arrow color](#)

See also [Meter configuration: Minimum value](#)

See also [Meter configuration: Meter sectors](#)

4.16 Meter configuration: Title

string	config/meters/N/title/
The title of the meter	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample JS request write command (note that `_meter_configuration_index` is a variable):

```
request.put({url:"config/meters/"+_meter_configuration_index.toString()+"/title"
↪ ↪ /",body:"Power voltage"}});
```

Sample JS request read command (note that `_meter_configuration_index` is a variable):

```
request.get({url:"config/meters/"+_meter_configuration_index.toString()+"/title"
↪ ↪ /"},function(error,response,body) {console.log(body)});
```

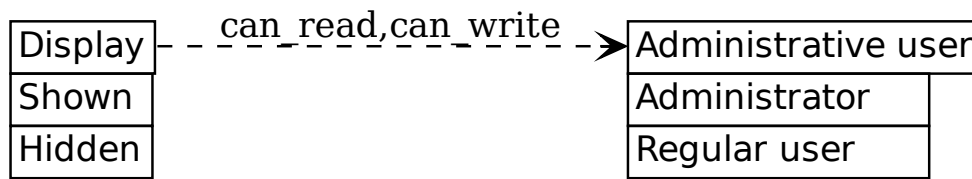
⇒

"Bus B voltage"

[Browse more samples](#)

4.17 Meter configuration: Display

sum (boolean)	config/meters/N/display/
Indicates whether the meter should be displayed	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Shown	The meter is shown
constant false	Hidden	The meter is hidden

Sample uom library read command (note that `_meter_configuration_index` is a variable):

```
print(uom.dump(uom.config.meters[_meter_configuration_index].display))
```

⇒

```
false
```

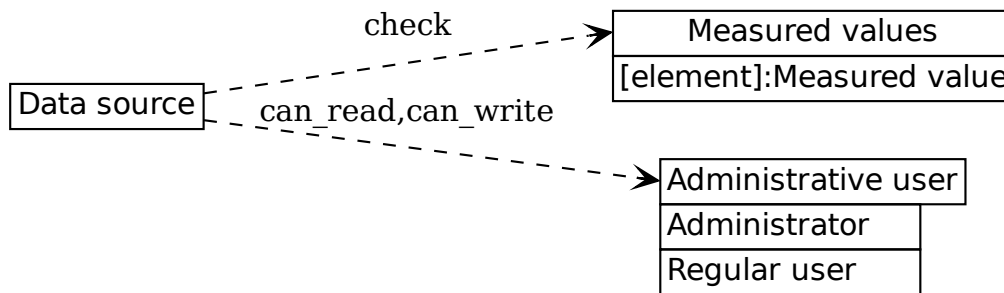
Sample uom library write command (note that `_meter_configuration_index` is a variable):

```
uom.config.meters[_meter_configuration_index].display=false
```

[Browse more samples](#)

4.18 Meter configuration: Data source

string	config/meters/N/data/
Identifier of the data source to use	



The value is subject to the following constraints: [measured values\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample uom library write command (note that `_meter_configuration_index` is a variable):

```
uom.config.meters[_meter_configuration_index].data="battery_voltage"
```

Sample requests read command (note that `_meter_configuration_index` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/config/meters/'+str( ↵
↵ _meter_configuration_index)+' /data/', auth=auth, headers=headers) . json() )
```

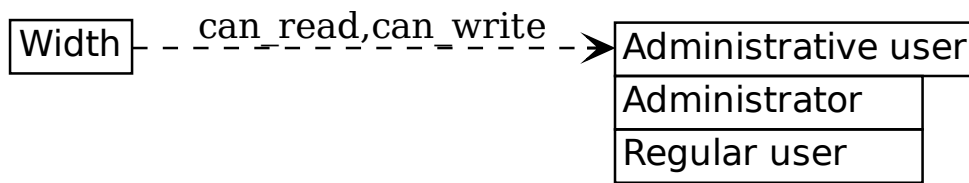
⇒

```
'buses.1.current'
```

[Browse more samples](#)

4.19 Meter configuration: Width

number	config/meters/N/width/
The width of the meter	



The value represents screen length, the standard unit of which is the pixel (px).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample uom library read command (note that `_meter_configuration_index` is a variable):

```
print(uom.dump(uom.config.meters[_meter_configuration_index].width))
```

⇒

128

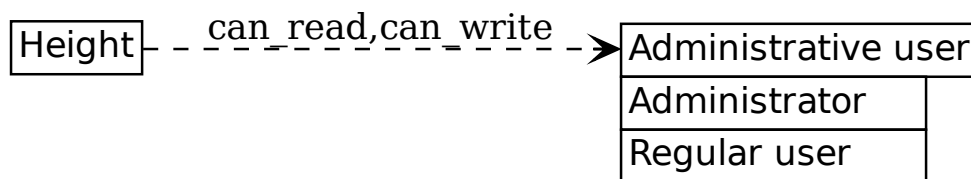
Sample CLI write command (note that `meter_configuration_index` is a variable):

```
uom set "config/meters/${meter_configuration_index}/width" "128"
```

[Browse more samples](#)

4.20 Meter configuration: Height

number	config/meters/N/height/
The height of the meter	



The value represents screen length, the standard unit of which is the pixel (px).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample `curl` read command (note that `:meter_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/meters/:meter_configuration_index/height/"
```

⇒

64

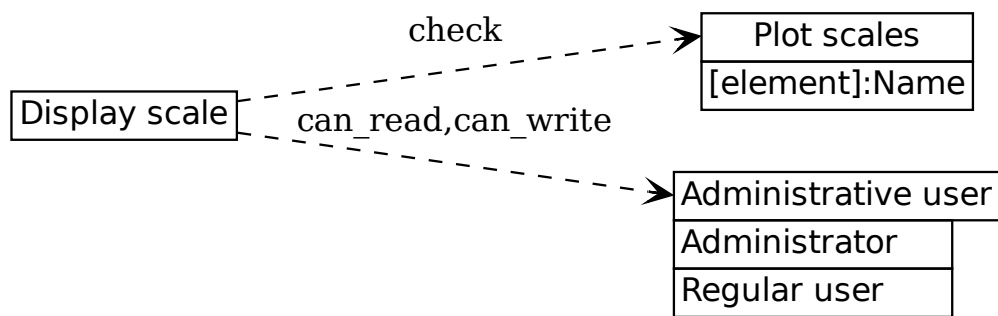
Sample `curl` write command (note that `:meter_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "64" "http ↵
↵ ://192.168.0.100/restapi/config/meters/:meter_configuration_index/height/"
```

[Browse more samples](#)

4.21 Meter configuration: Display scale

string	config/meters/N/scale/
The scale function to use for display	



The value is subject to the following constraints: [plot scales\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample CLI read command (note that `meter_configuration_index` is a variable):

```
uom get "config/meters/${meter_configuration_index}/scale"
```

⇒

```
"linear"
```

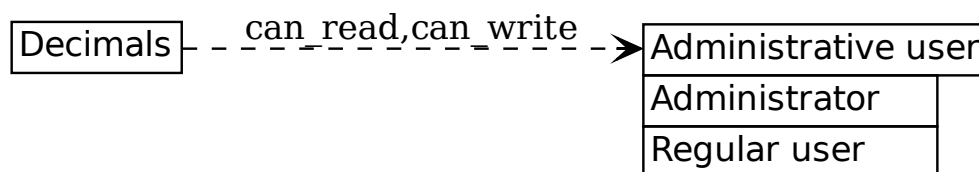
Sample CLI write command (note that `meter_configuration_index` is a variable):

```
uom set "config/meters/${meter_configuration_index}/scale" "\"linear\""
```

[Browse more samples](#)

4.22 Meter configuration: Decimals

number	config/meters/N/decimals/
Number of decimal places to show in displayed value	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample uom library write command (note that `_meter_configuration_index` is a variable):

```
uom.config.meters[_meter_configuration_index].decimals=0
```

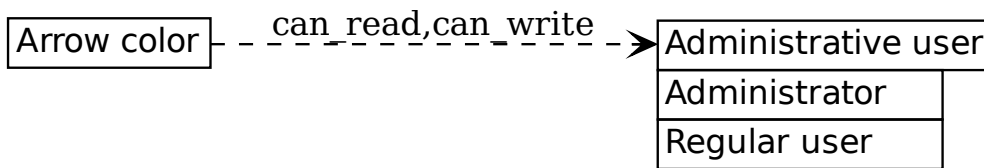
Sample curl write command (note that `:meter_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "1" "http ↵
↵ ://192.168.0.100/restapi/config/meters/:meter_configuration_index/decimals ↵
↵ /"
```

[Browse more samples](#)

4.23 Meter configuration: Arrow color

string	config/meters/N/color/
The color of the meter arrow	



The value is subject to the following constraints: [the value](#) matches `^[0-9A-F]{6}$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample JS request read command (note that `_meter_configuration_index` is a variable):

```
request.get({url:"config/meters/"+_meter_configuration_index.toString()+"/color"
  ↪ ↪"/"},function(error,response,body){console.log(body)});
```

⇒

" "

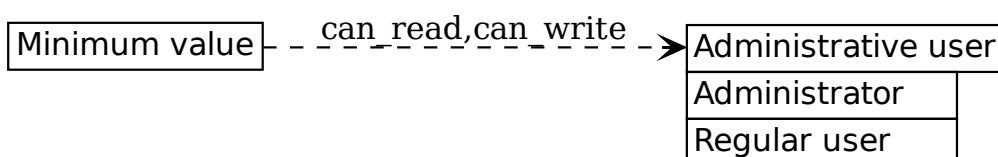
Sample requests write command (note that `_meter_configuration_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/meters/'+str(
  ↪ ↪_meter_configuration_index)+'/color/',auth=auth,headers=headers,json='')
```

[Browse more samples](#)

4.24 Meter configuration: Minimum value

number	config/meters/N/min_value/
The minimum value to be displayed on the meter	




```
print(requests.get('http://192.168.0.100/restapi/config/meters/'+str( ↵
    ↵ _meter_configuration_index)+'sectors/',auth=auth,headers=headers).json())
```

⇒

```
[{'color': '0000FF', 'name': 'Low', 'value': 100}, {'color': '00FF00', 'name': ' ↵
    ↵ Optimal', 'value': 127}, {'color': 'FF0000', 'name': 'High', 'value': 140}]
```

Sample CLI write command (note that `meter_configuration_index` is a variable):

```
uom set "config/meters/${meter_configuration_index}/sectors" "[{"color\":"0000 ↵
    ↵ FF\","name\":"Low\","value\:100},{\"color\":"00FF00\","name\":" ↵
    ↵ Optimal\","value\:1000},{\"color\":"FF0000\","name\":"High\","value ↵
    ↵ \":10000}]"
```

[Browse more samples](#)

4.25.1 Sector configuration

object	config/meters/N/sectors/N/
Configuration of a meter sector	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

name	Name
value	Maximum value
color	Color

Sample CLI read command (note that `meter_configuration_index` and `sector_configuration_index` are variables):

```
uom get "config/meters/${meter_configuration_index}/sectors/${ ↵
    ↵ sector_configuration_index}"
```

⇒

```
{"color":"FF0000","name":"High","value":6}
```

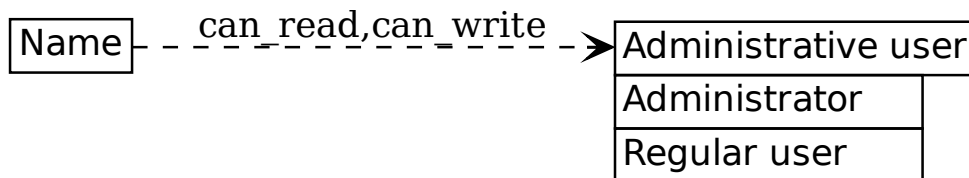
Sample JS request write command (note that `_meter_configuration_index` and `_sector_configuration_index` are variables):

```
request.put({url:"config/meters/"+_meter_configuration_index.toString()+"/sectors ↵
    ↵ /"+_sector_configuration_index.toString()+"/",body:{\"color\":\"00FF00\",\"name ↵
    ↵ \":\"Optimal\",\"value\":127}});
```

[Browse more samples](#)

string	config/meters/N/sectors/N/name/
The name of the sector	

4.25.1.1 Name



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample CLI read command (note that `meter_configuration_index` and `sector_configuration_index` are variables):

```
uom get "config/meters/${meter_configuration_index}/sectors/${sector_configuration_index}/name"
```

⇒

"Cold"

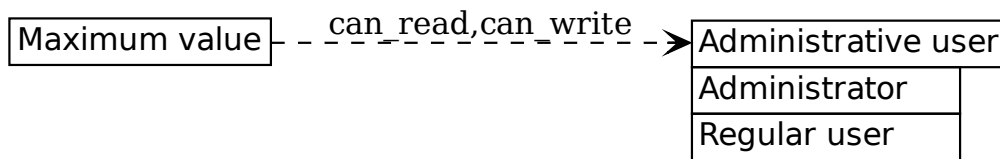
Sample `uom library write` command (note that `_meter_configuration_index` and `_sector_configuration_index` are variables):

```
uom.config.meters[_meter_configuration_index].sectors[_sector_configuration_index].name="High"
```

[Browse more samples](#)

number	config/meters/N/sectors/N/value/
The maximum value for the sector	

4.25.1.2 Maximum value



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

This number represents a value in persistent storage.

Sample requests read command (note that `_meter_configuration_index` and `_sector_configuration_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/config/meters/'+str(
    ↪ _meter_configuration_index)+'/sectors/'+str(_sector_configuration_index)+'/
    ↪ value/', auth=auth, headers=headers).json())
```

⇒

127

Sample JS request read command (note that `_meter_configuration_index` and `_sector_configuration_index` are variables):

```
request.get({url:"config/meters/"+_meter_configuration_index.toString()+"/sectors
    ↪ /"+_sector_configuration_index.toString()+"/value/"}, function(error,
    ↪ response, body) {console.log(body)});
```

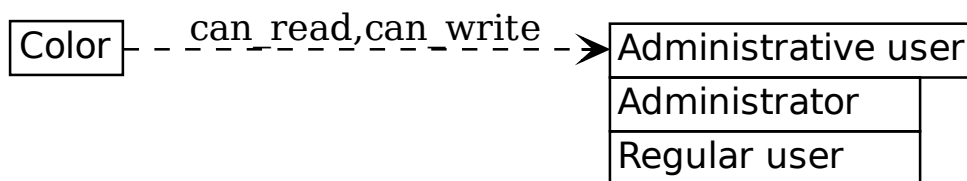
⇒

6.4

[Browse more samples](#)

string	config/meters/N/sectors/N/color/
The color of the sector	

4.25.1.3 Color



The value is subject to the following constraints: [the value](#) matches `^[0-9A-F]{6}$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample `requests` write command (note that `_meter_configuration_index` and `_sector_configuration_index` are variables):

```
requests.put('http://192.168.0.100/restapi/config/meters/'+str(↵
    ↵ _meter_configuration_index)+'sectors/'+str(_sector_configuration_index)+'/'↵
    ↵ color/', auth=auth, headers=headers, json='0000FF')
```

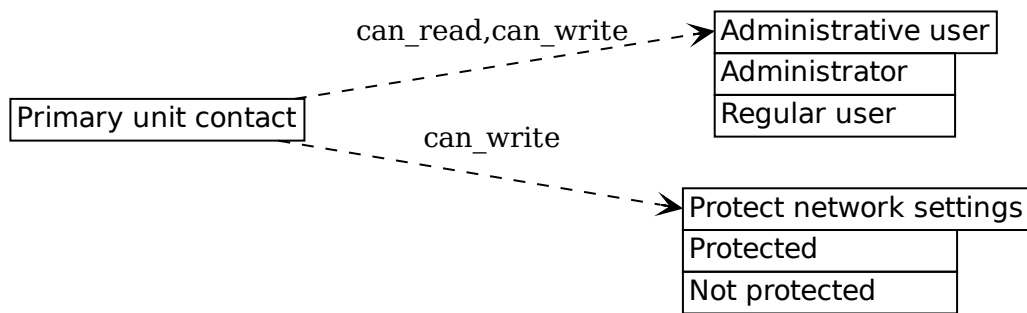
Sample `uom` library write command (note that `_meter_configuration_index` and `_sector_configuration_index` are variables):

```
uom.config.meters[_meter_configuration_index].sectors[_sector_configuration_index↵
    ↵ ].color="FF0000"
```

[Browse more samples](#)

4.26 Primary unit contact

string	config/contact/
The person or entity responsible for this unit and information on how to contact them	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample uom library write command:

```
uom.config.contact="support@example.com"
```

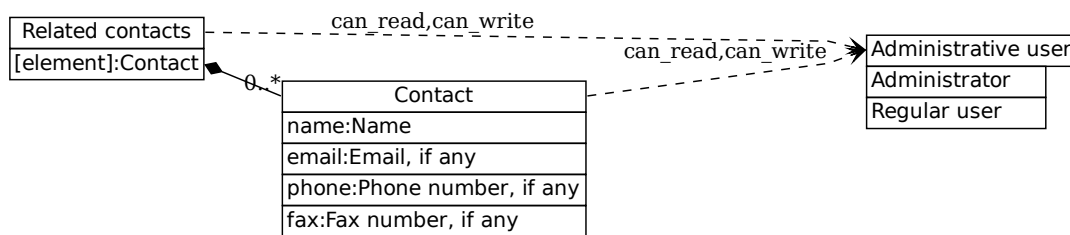
Sample JS request write command:

```
request.put({url:"config/contact/",body:"support@example.com"});
```

[Browse more samples](#)

4.27 Related contacts

map	config/contacts/
Contacts related to the unit in different ways	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map represents a value in persistent storage.

This map contains [Contact](#) elements.

Sample requests contact creation command:

```
requests.put('http://192.168.0.100/restapi/config/contacts/sales/', auth=auth,
    ↪ headers=headers, json={'phone': None, 'fax': None, 'name': 'Sales', 'email':
    ↪ 'sales@baz.example.com'})
```

Sample JS request read command:

```
request.get({url:"config/contacts/"}, function(error, response, body) {console.log(
    ↪ body)});
```

⇒

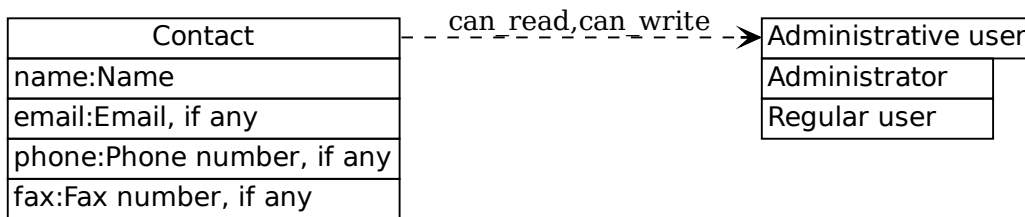
```
{ "sales": {"phone": null, "fax": null, "name": "Sales", "email": null}, "support": {"phone
    ↪ ": null, "fax": null, "name": "Support", "email": "support@bar.example.com"}, "
    ↪ security": {"phone": null, "fax": null, "name": "Security", "email": "security@baz.
    ↪ example.com"}}
```

[Browse more samples](#)

See also [Related contacts: Contact](#)

4.28 Related contacts: Contact

object	config/contacts/S/
Contact properties	



The value is subject to the following constraints: not index of the value matches $^(|$.*)$$

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This object represents a value in persistent storage.

This object contains the following items:

name	Name
email	Email, if any
phone	Phone number, if any
fax	Fax number, if any

Sample `curl` read command (note that `:contact` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/contacts/:contact/"
```

⇒

```
{ "phone": null, "fax": null, "name": "Features", "email": null }
```

Sample `requests` read command (note that `_contact` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/config/contacts/'+_contact+'/', ↵
↵ auth=auth, headers=headers).json())
```

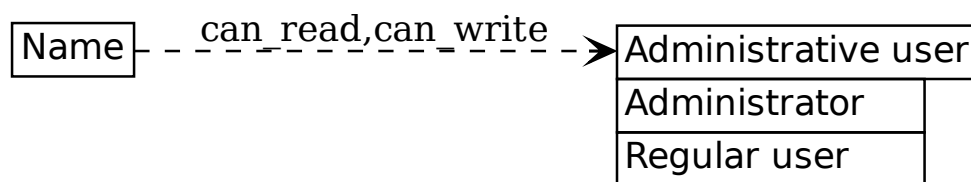
⇒

```
{ 'phone': None, 'fax': None, 'name': 'Engineering', 'email': None }
```

[Browse more samples](#)

4.28.1 Name

string	config/contacts/S/name/
Contact name	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample JS request read command (note that `_contact` is a variable):

```
request.get({url:"config/contacts/"+_contact+"/name/"},function(error,response,↵
↵ body) {console.log(body)});
```

⇒

"Engineering"

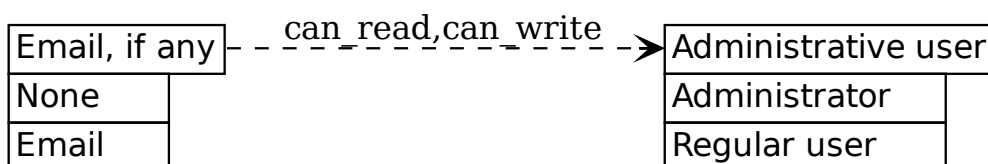
Sample JS request write command (note that `_contact` is a variable):

```
request.put({url:"config/contacts/"+_contact+"/name/",body:"Engineering"});
```

[Browse more samples](#)

4.28.2 Email, if any

sum (optional string)	config/contacts/S/email/
Contact email address, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No email address stored
string	Email	Contact email address the value is not equal to ""

Sample requests write command (note that `_contact` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/contacts/'+_contact+'/email/',
    auth=auth, headers=headers, json=None)
```

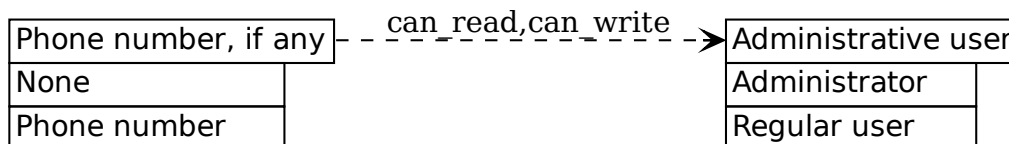
Sample CLI write command (note that `contact` is a variable):

```
uom set "config/contacts/${contact}/email" "null"
```

[Browse more samples](#)

4.28.3 Phone number, if any

sum (optional string)	config/contacts/S/phone/
Contact phone number, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No phone number stored
string	Phone number	Contact phone number the value is not equal to ""

Sample CLI read command (note that `contact` is a variable):

```
uom get "config/contacts/${contact}/phone"
```

⇒

null

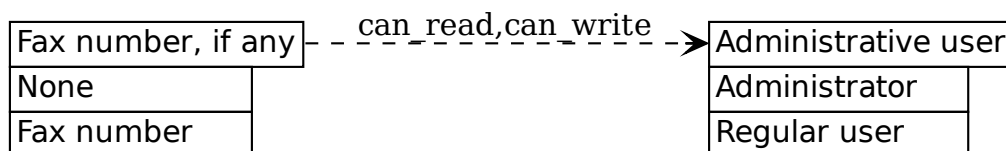
Sample `requests` write command (note that `_contact` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/contacts/'+_contact+'/phone/', ↵
    ↵ auth=auth,headers=headers,json=None)
```

[Browse more samples](#)

4.28.4 Fax number, if any

sum (optional string)	config/contacts/S/fax/
Contact fax number, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No fax number stored	
string	Fax number	Contact fax number	the value is not equal to ""

Sample `requests` write command (note that `_contact` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/contacts/'+_contact+'/fax/', ↵
    ↵ auth=auth,headers=headers,json=None)
```

Sample `requests` read command (note that `_contact` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/config/contacts/'+_contact+'/fax' ↵
    ↵ /',auth=auth,headers=headers).json())
```

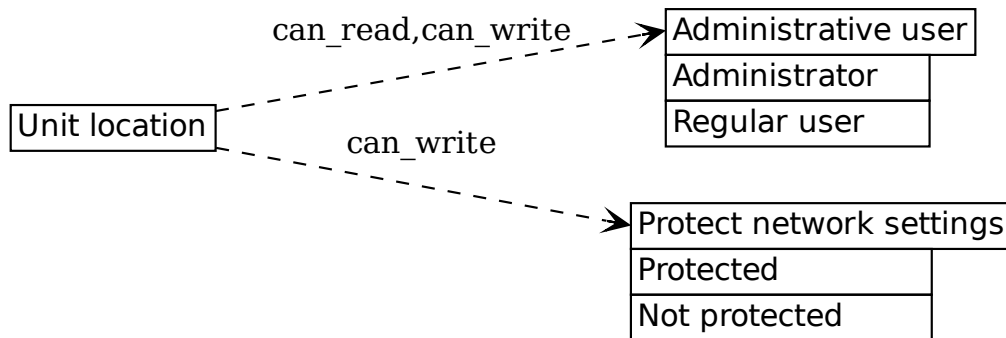
⇒

```
'+36809169543048'
```

[Browse more samples](#)

4.29 Unit location

string	config/location/
The physical location of this unit (e.g. '1st floor, rack 9')	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/location/"
```

⇒

```
"Server room"
```

Sample `uom` library read command:

```
print(uom.dump(uom.config.location))
```

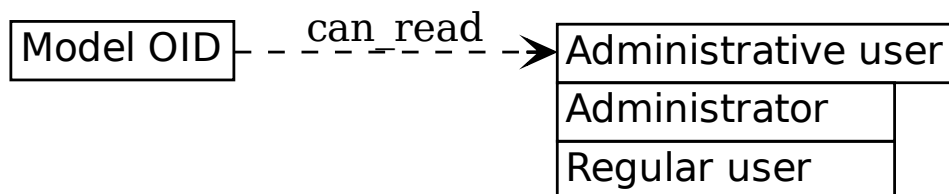
⇒

```
"Server room"
```

[Browse more samples](#)

4.30 Model OID

string	config/oid/
Object identifier of unit model (should be registered under dliRegistration OID)	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/oid/"
```

⇒

```
"1.3.6.1.4.1.45770.1.3"
```

Sample CLI read command:

```
uom get "config/oid"
```

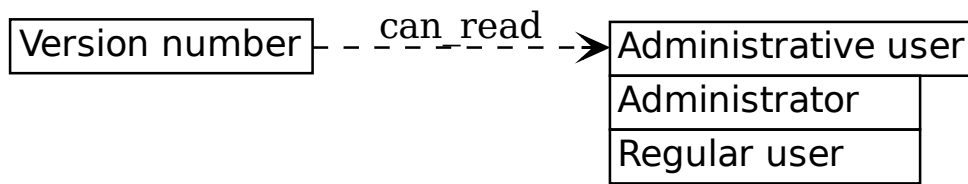
⇒

```
"1.3.6.1.4.1.45770.1.3"
```

[Browse more samples](#)

4.31 Version number

string	config/version/
Version number of frontend software	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample uom library read command:

```
print(uom.dump(uom.config.version))
```

⇒

```
"1.8.1.0"
```

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/config/version/', auth=auth, ↵
    ↵ headers=headers).json())
```

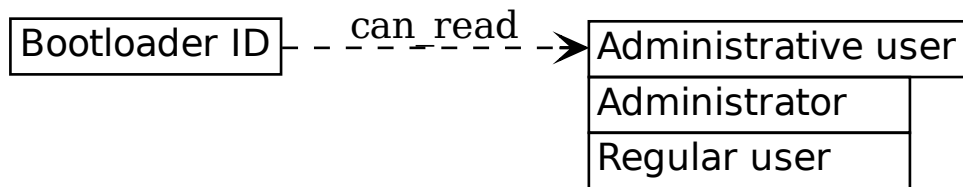
⇒

```
'1.8.1.0'
```

[Browse more samples](#)

4.32 Bootloader ID

string	config/bootloader_id/
Hash of bootloader	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample CLI read command:

```
uom get "config/bootloader_id"
```

⇒

```
"b90d99b2f05925ccbd42af7dde3e7559c365f788c471cf7b299782739a7f9ad7"
```

Sample requests read command:

```
print (requests.get ('http://192.168.0.100/restapi/config/bootloader_id/', auth=auth ↵
↵ , headers=headers).json())
```

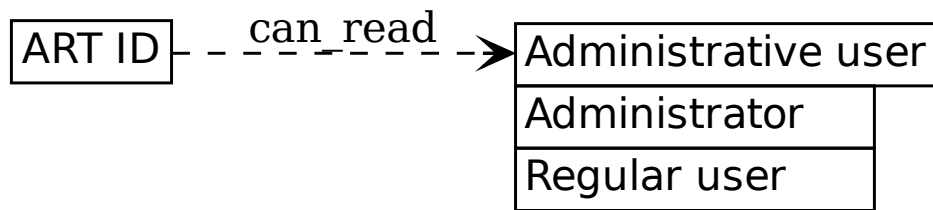
⇒

```
'3af3c5c546e53004d8e0c4a3507aab13a53bf7d9f65ce29c01b749fe2e0ed93b'
```

[Browse more samples](#)

4.33 ART ID

string	config/art_id/
Hash of ART settings	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample JS `request read` command:

```
request.get({url:"config/art_id/"},function(error,response,body) {console.log( ↵
    ↵ body) });
```

⇒

```
"abb2fd286b57518d22b70ec14716c6a6c89379d5b4360f1d73d678b54e0a6cf7"
```

Sample CLI `read` command:

```
uom get "config/art_id"
```

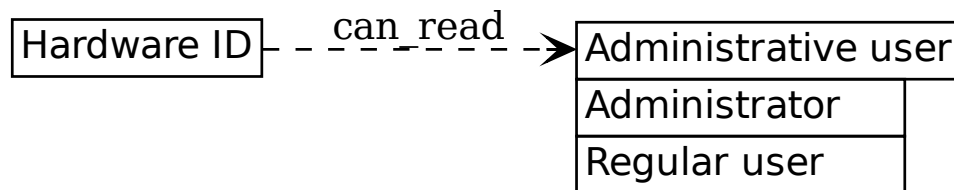
⇒

```
"aaae3aeb551ae45c9ae6720ebf394ac3530cecac45ace2b3412524d119354df7"
```

[Browse more samples](#)

4.34 Hardware ID

string	config/hardware_id/
Identifier of unit hardware model	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample uom library read command:

```
print(uom.dump(uom.config.hardware_id))
```

⇒

"EPCR5"

Sample CLI read command:

```
uom get "config/hardware_id"
```

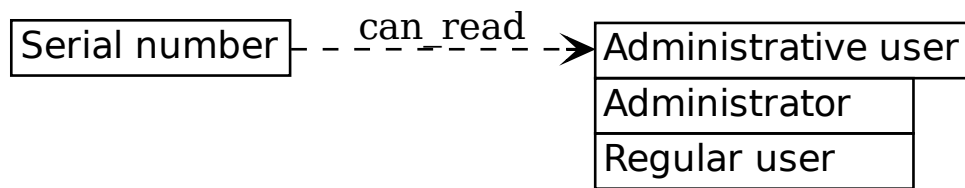
⇒

"EPCR5"

[Browse more samples](#)

4.35 Serial number

string	config/serial/
Unit's serial number	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/serial/"
```

⇒

"LPC92203123456"

Sample CLI read command:

```
uom get "config/serial"
```

⇒

"LPC92203123456"

[Browse more samples](#)

4.36 Outlet label

string	config/outlet_label/
User-visible label for an outlet controlled by a relay	

This string does not support direct modification.

This string represents a value in persistent storage.

Sample CLI read command:

```
uom get "config/outlet_label"
```

⇒

"Outlet"

Sample requests read command:

```
print (requests.get ('http://192.168.0.100/restapi/config/outlet_label/', auth=auth, ↵
    ↵ headers=headers).json())
```

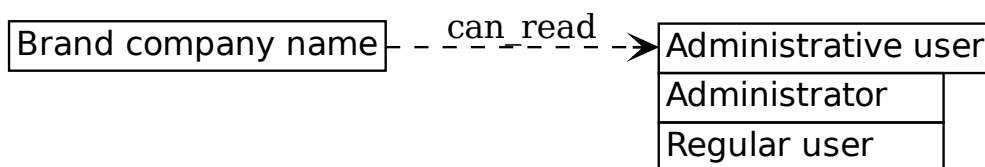
⇒

'Outlet'

[Browse more samples](#)

4.37 Brand company name

string	config/brand_company_name/
The name of the company which produced the device	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample JS request read command:

```
request.get ({url:"config/brand_company_name/"}, function(error, response, body) { ↵
    ↵ console.log(body) });
```

⇒

"Digital Loggers, Inc."

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/config/brand_company_name/"
```

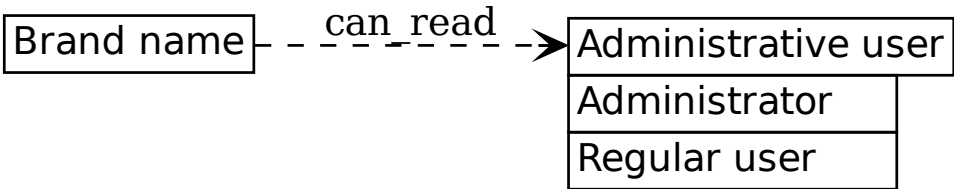
⇒

"Digital Loggers, Inc."

[Browse more samples](#)

4.38 Brand name

string	config/brand_name/
Default brand name, unless overridden	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample JS request read command:

```
request.get({url:"config/brand_name/"},function(error,response,body){console.log↵↵(body)});
```

⇒

"Ethernet Power Controller"

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵↵restapi/config/brand_name/"
```

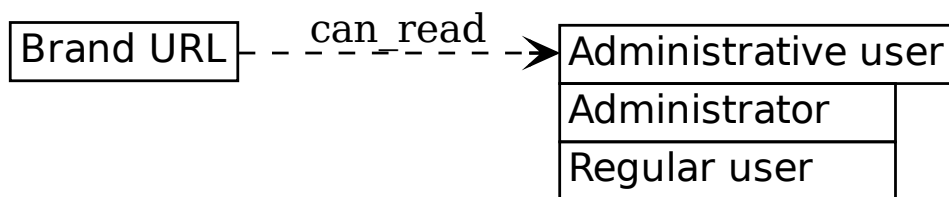
⇒

"Ethernet Power Controller"

[Browse more samples](#)

4.39 Brand URL

string	config/brand_url/
Default brand URL, unless overridden	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/brand_url/"
```

⇒

```
"http://bar.example.com:7/foo.html"
```

Sample CLI read command:

```
uom get "config/brand_url"
```

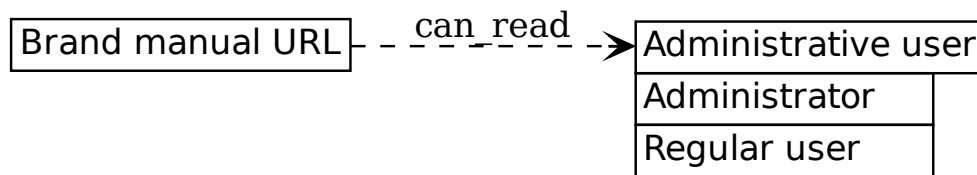
⇒

```
"https://baz.example.com/foo/quux.htm"
```

[Browse more samples](#)

4.40 Brand manual URL

string	config/brand_manual_url/
Brand product manual URL	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample uom library read command:

```
print(uom.dump(uom.config.brand_manual_url))
```

⇒

```
"https://baz.example.com/baz/foo/quux.html"
```

Sample JS request read command:

```
request.get({url:"config/brand_manual_url/"},function(error,response,body) {
  ↪ console.log(body)});
```

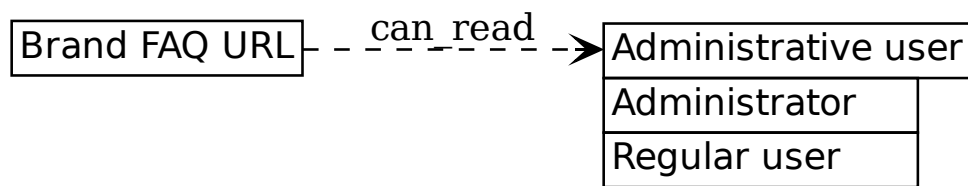
⇒

```
"http://baz.example.com:3/baz/quux/bar/bar/baz.html"
```

[Browse more samples](#)

4.41 Brand FAQ URL

string	config/brand_faq_url/
Brand product FAQ URL	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/config/brand_faq_url/', auth=auth ↵
    ↵ , headers=headers).json())
```

⇒

```
'https://baz.example.com:443/bar/baz/baz.html '
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/config/brand_faq_url/"
```

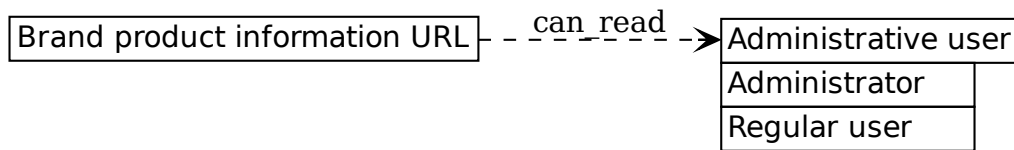
⇒

```
"https://bar.example.com/baz.html"
```

[Browse more samples](#)

4.42 Brand product information URL

string	config/brand_product_info_url/
Brand product information URL	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample CLI read command:

```
uom get "config/brand_product_info_url"
```

⇒

```
"http://foo.example.com/quux/quux/bar/bar/foo/baz/foo/quux.html"
```

Sample JS request read command:

```
request.get({url:"config/brand_product_info_url/"},function(error,response,body) ↵
  ↵ {console.log(body)});
```

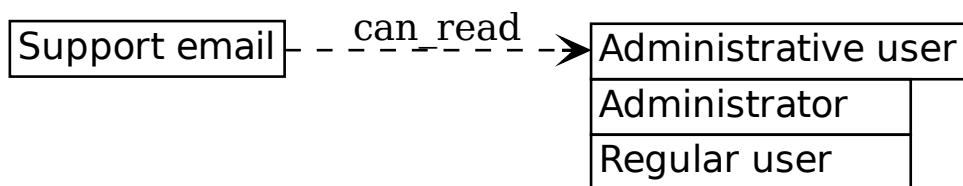
⇒

```
"https://baz.example.com:443/baz.htm"
```

[Browse more samples](#)

4.43 Support email

string	config/support_email/
Product support email	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample JS request read command:

```
request.get({url:"config/support_email/"},function(error,response,body) {console. ↵
    ↵ log(body)});
```

⇒

```
"support@example.com"
```

Sample uom library read command:

```
print(uom.dump(uom.config.support_email))
```

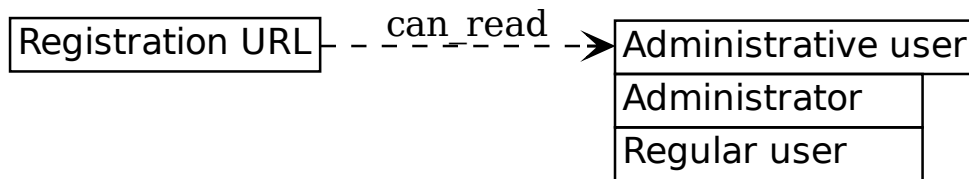
⇒

```
"support@example.com"
```

[Browse more samples](#)

4.44 Registration URL

string	config/register_url/
Default registration URL, unless overridden	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample JS request read command:

```
request.get({url:"config/register_url/"},function(error,response,body) {console.log(body)});
```

⇒

```
"http://foo.example.com/baz/foo/foo/quux/quux/foo/baz/baz/foo.html"
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/restapi/config/register_url/"
```

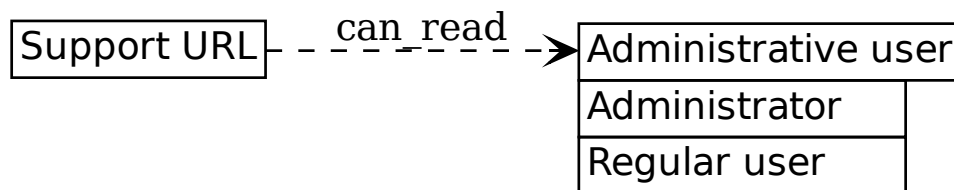
⇒

```
"https://bar.example.com:443/baz/quux.htm"
```

[Browse more samples](#)

4.45 Support URL

string	config/support_url/
Default support URL, unless overridden	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample JS request read command:

```
request.get({url:"config/support_url/"},function(error,response,body) {console.log(body)});
```

⇒

```
"http://baz.example.com/quux/bar/quux/quux/quux/quux/baz/quux.htm"
```

Sample uom library read command:

```
print(uom.dump(uom.config.support_url))
```

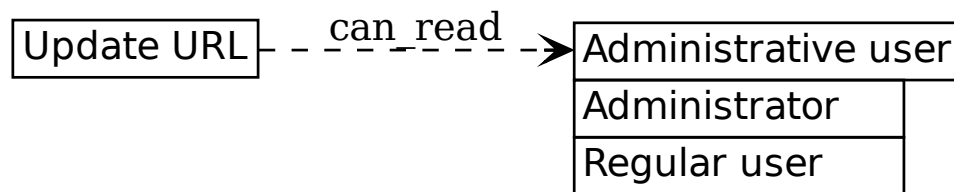
⇒

```
"http://baz.example.com:80/bar/quux/bar/quux/baz/bar/baz.html"
```

[Browse more samples](#)

4.46 Update URL

string	config/update_url/
Default update URL, unless overridden	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/config/update_url/', auth=auth, ↵
      ↵ headers=headers).json())
```

⇒

```
'http://baz.example.com/foo.html'
```

Sample JS request read command:

```
request.get({url:"config/update_url/"},function(error,response,body) {console.log ↵
      ↵ (body)});
```

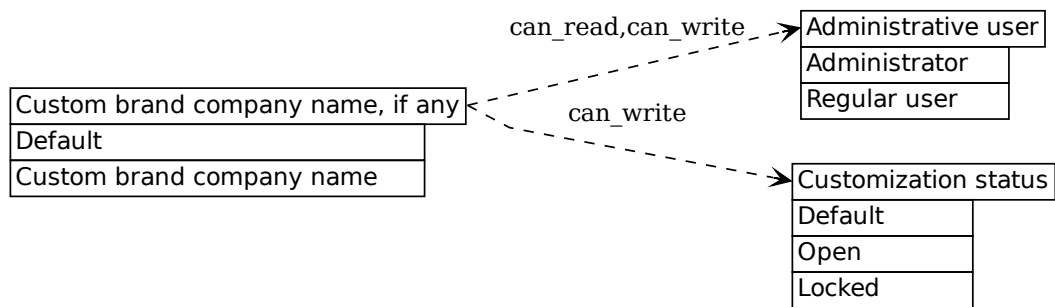
⇒

```
"https://baz.example.com:18443/foo/foo/foo/baz/quux/quux.html"
```

[Browse more samples](#)

4.47 Custom brand company name, if any

sum (optional string)	config/custom_brand_company_name/
User-visible brand company name, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Use default brand company name
string	Custom brand company name	User-visible brand company name the value is not equal to ""

Sample `uom` library write command:

```
uom.config.custom_brand_company_name="Whatever Systems Inc."
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/custom_brand_company_name/"
```

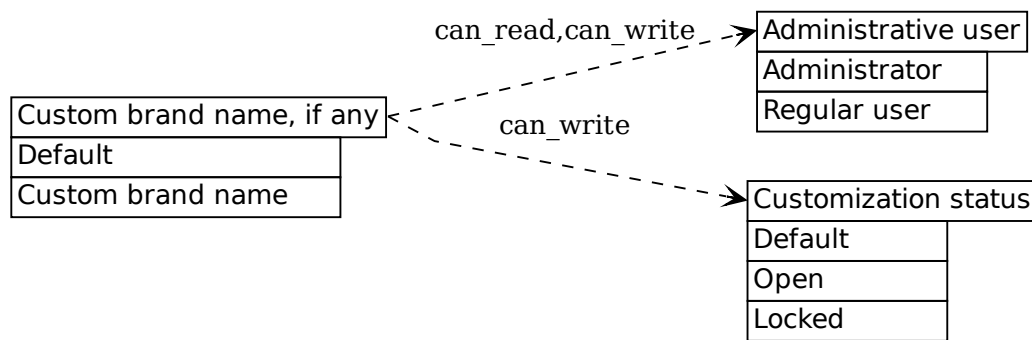
⇒

```
"Whatever Systems Inc."
```

[Browse more samples](#)

4.48 Custom brand name, if any

sum (optional string)	config/custom_brand_name/
User-visible product brand name, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Use default product brand name	
string	Custom brand name	User-visible product brand name	the value is not equal to ""

Sample JS request write command:

```
request.put({url:"config/custom_brand_name/",body:"Amazing Controller III"});
```

Sample JS request read command:

```
request.get({url:"config/custom_brand_name/"},function(error,response,body) {
  ↪ console.log(body) });
```

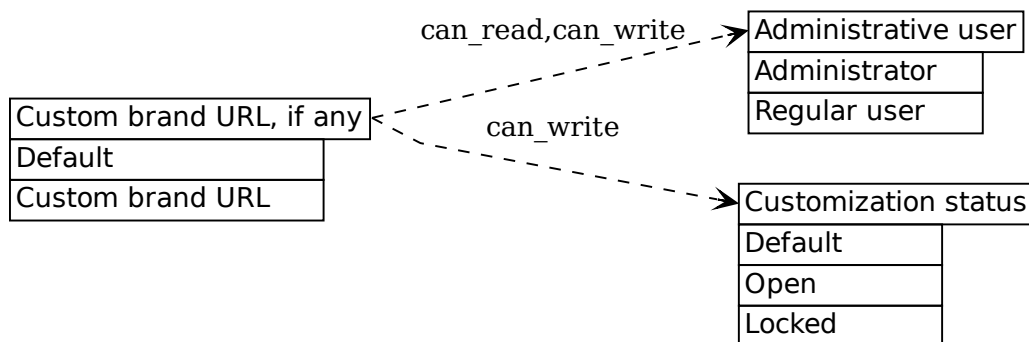
⇒

```
"Amazing Controller III"
```

[Browse more samples](#)

4.49 Custom brand URL, if any

sum (optional string)	config/custom_brand_url/
User-visible brand URL, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Use default brand URL	
string	Custom brand URL	User-visible brand URL	the value is not equal to ""

Sample `uom` library write command:

```
uom.config.custom_brand_url="http://bar.example.com:80/foo/quux.htm"
```

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/config/custom_brand_url/', auth= ↵
↵ auth, headers=headers).json())
```

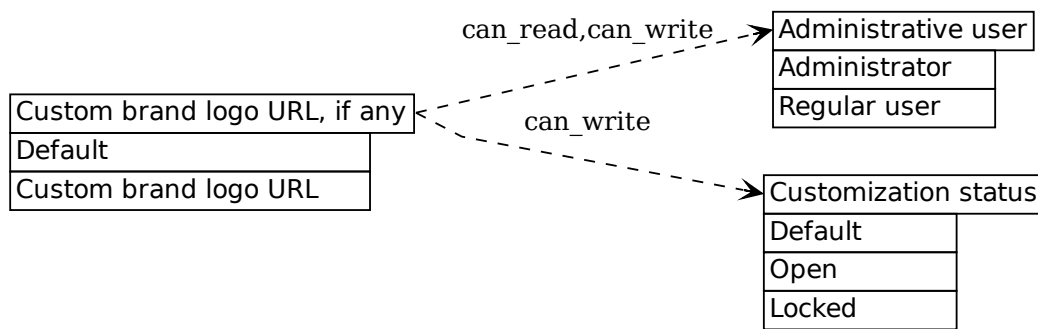
⇒

```
'http://foo.example.com/baz/baz/baz.html'
```

[Browse more samples](#)

4.50 Custom brand logo URL, if any

sum (optional string)	config/custom_brand_logo/
User-visible brand logo URL, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Use default brand logo
string	Custom brand logo URL	User-visible brand logo URL the value is not equal to ""

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/custom_brand_logo/"
```

⇒

```
"https://foo.example.com/quux/bar/baz/baz.png"
```

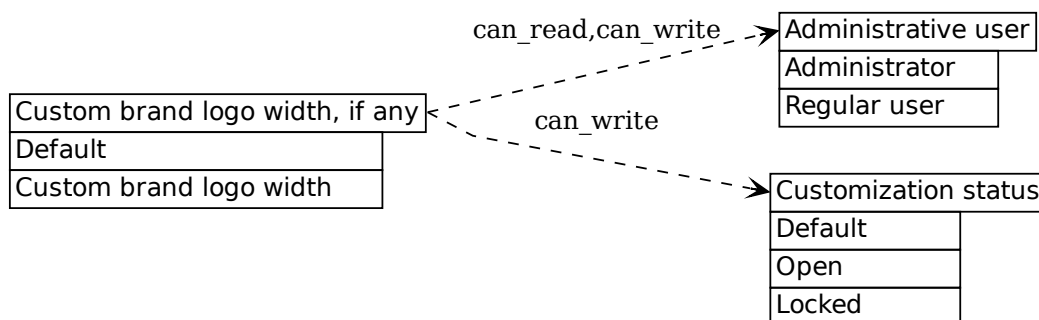
Sample `uom` library write command:

```
uom.config.custom_brand_logo="http://baz.example.com/bar.png"
```

[Browse more samples](#)

4.51 Custom brand logo width, if any

sum (optional number)	config/custom_brand_logo_width/
User-visible brand logo width, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Use default brand logo width
number	Custom brand logo width	User-visible brand logo width

Sample CLI write command:

```
uom set "config/custom_brand_logo_width" "22"
```

Sample uom library read command:

```
print(uom.dump(uom.config.custom_brand_logo_width))
```

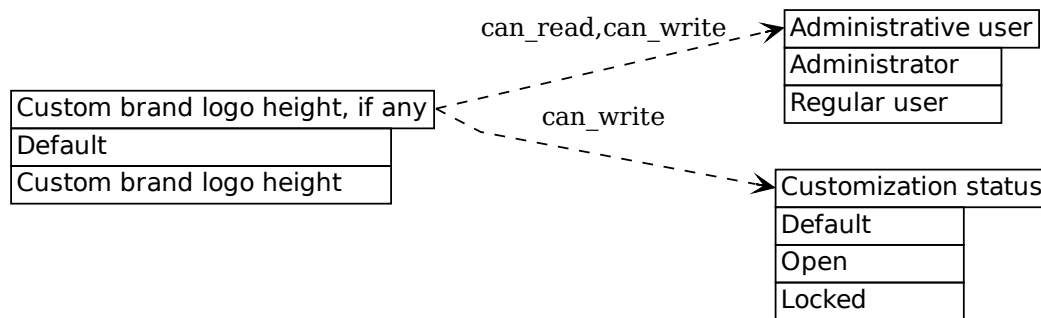
⇒

22

[Browse more samples](#)

4.52 Custom brand logo height, if any

sum (optional number)	config/custom_brand_logo_height/
User-visible brand logo height, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Use default brand logo height
number	Custom brand logo height	User-visible brand logo height

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/custom_brand_logo_height/"
```

⇒

32

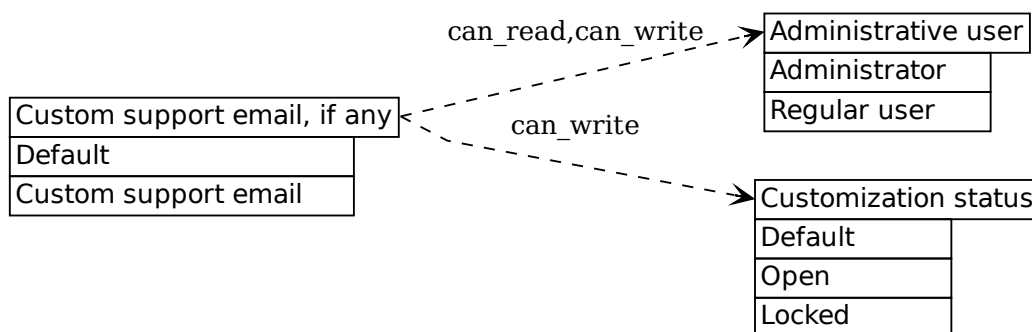
Sample `uom` library write command:

```
uom.config.custom_brand_logo_height=32
```

[Browse more samples](#)

4.53 Custom support email, if any

sum (optional string)	config/custom_support_email/
User-visible product support email, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Use default support email	
string	Custom support email	User-visible product support email	the value is not equal to ""

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
↔ json" -H "Accept: application/json" --data-binary "\"support@example.com\"" ↔
↔ "http://192.168.0.100/restapi/config/custom_support_email/"
```

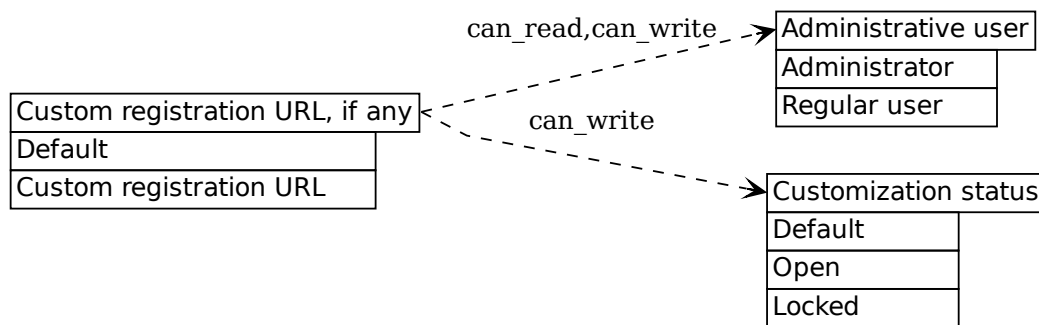
Sample JS request write command:

```
request.put({url:"config/custom_support_email/",body:"support@example.com"});
```

[Browse more samples](#)

4.54 Custom registration URL, if any

sum (optional string)	config/custom_register_url/
User-visible registration URL, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Use default registration URL	
string	Custom registration URL	User-visible registration URL	the value is not equal to ""

Sample uom library write command:

```
uom.config.custom_register_url="https://bar.example.com/bar/foo/quux/bar.html"
```

Sample CLI read command:

```
uom get "config/custom_register_url"
```

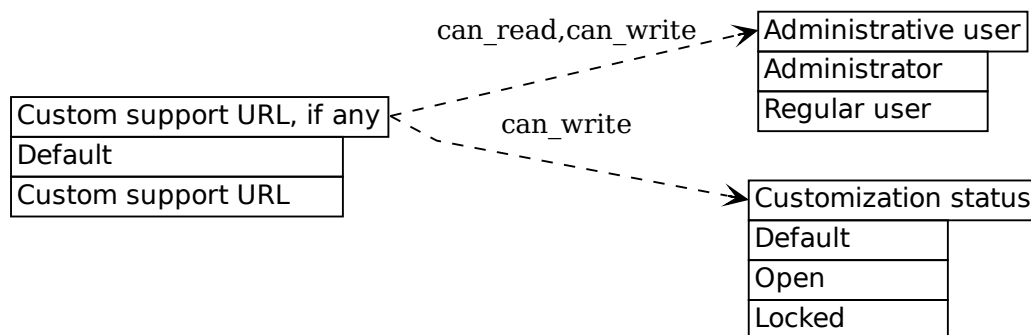
⇒

```
"https://baz.example.com/quux/quux/baz/foo/bar.htm"
```

[Browse more samples](#)

4.55 Custom support URL, if any

sum (optional string)	config/custom_support_url/
User-visible support URL, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Use default support URL	
string	Custom support URL	User-visible support URL	the value is not equal to ""

Sample JS request read command:

```
request.get({url:"config/custom_support_url/"},function(error,response,body) {
  ↪ console.log(body) });
```

⇒

```
"http://bar.example.com:8091/quux/bar.html"
```

Sample curl read command:

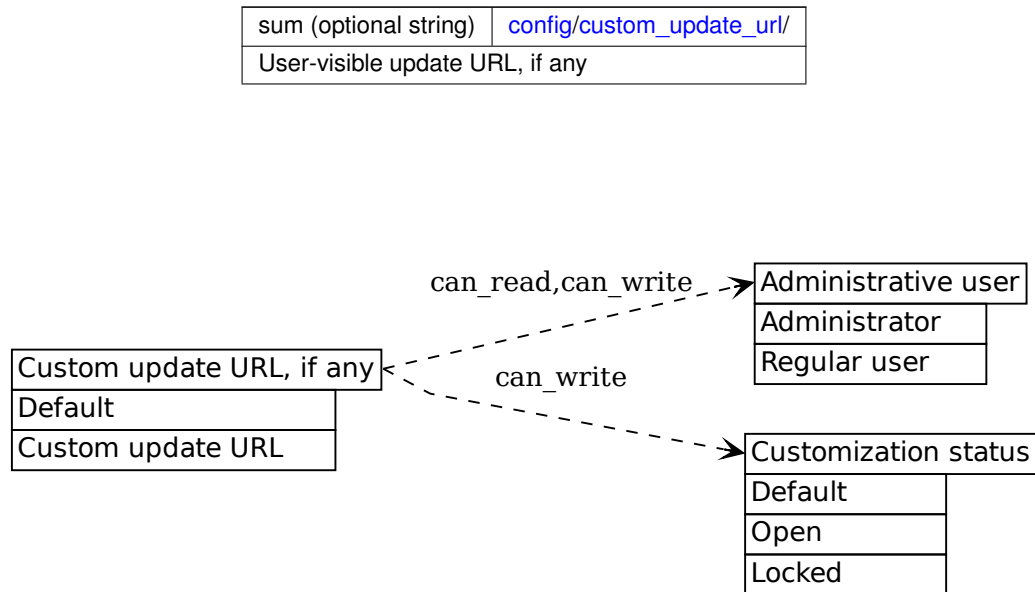
```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
  ↪ restapi/config/custom_support_url/"
```

⇒

```
"http://baz.example.com/baz/quux/bar/baz/foo.html"
```

[Browse more samples](#)

4.56 Custom update URL, if any



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Use default update URL	
string	Custom update URL	User-visible update URL	the value is not equal to ""

Sample JS request write command:

```
request.put({url:"config/custom_update_url/",body:"http://foo.example.com:8/quux. ↵
↵ html"});
```

Sample uom library read command:

```
print(uom.dump(uom.config.custom_update_url))
```

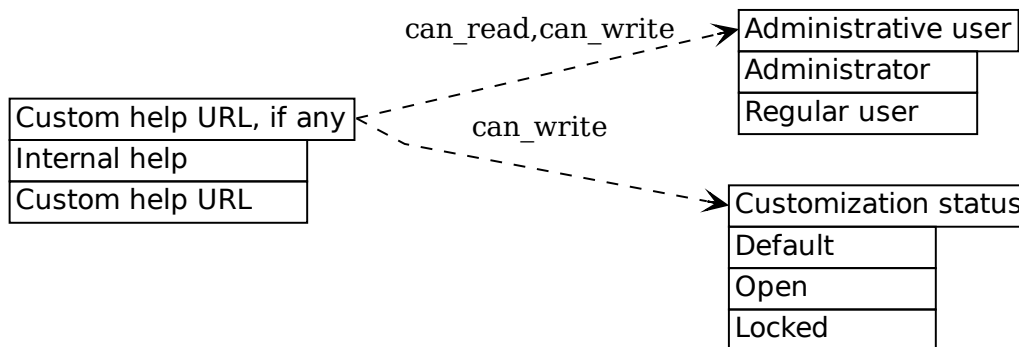
⇒

```
"http://bar.example.com:8006/quux/bar/baz/bar.htm"
```

[Browse more samples](#)

4.57 Custom help URL, if any

sum (optional string)	config/custom_help_url/
User-visible help URL, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [customization status](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Internal help	Use the internal embedded help system	
string	Custom help URL	User-visible help URL	the value is not equal to ""

Sample CLI write command:

```
uom set "config/custom_help_url" "\"https://foo.example.com/bar/baz.htm\""
```

Sample JS request read command:

```
request.get({url:"config/custom_help_url/"},function(error,response,body) { ↔
  ↔ console.log(body) });
```

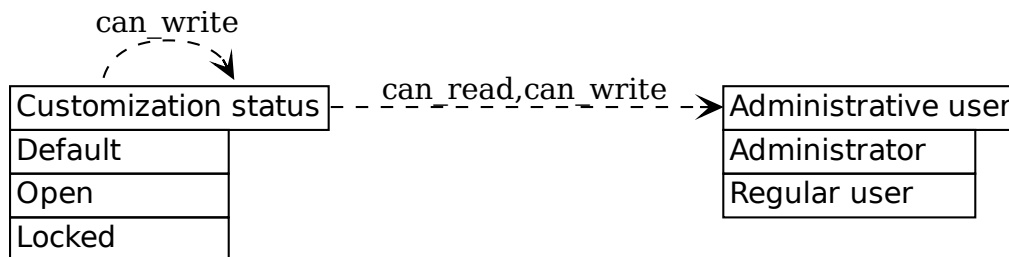
⇒

```
"http://foo.example.com:8045/baz/quux/foo/quux/quux/bar/foo.html"
```

[Browse more samples](#)

4.58 Customization status

sum (optional enumerated string)	config/customization_status/
Status of customization options	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- any of the following is true:
 - [the value](#) is equal to open
 - [the value](#) is equal to locked

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Default	Customization options can be changed and/or locked
constant "open"	Open	Customization options can be changed, but cannot be locked
constant "locked"	Locked	Customization options are locked and cannot be changed

Sample CLI write command:

```
uom set "config/customization_status" "\"open\""
```

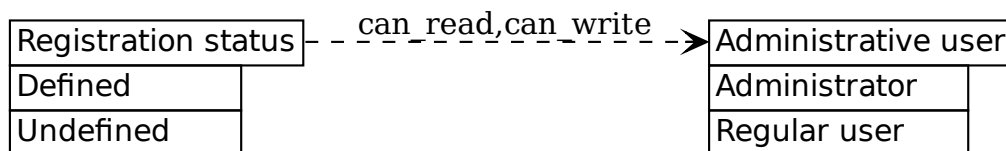
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "null" "http ↵
↵ ://192.168.0.100/restapi/config/customization_status/"
```

[Browse more samples](#)

4.59 Registration status

sum (boolean)	config/registration_status/
Status of the unit registration	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Defined	The user has either registered the unit, or refused to do so
constant false	Undefined	The user hasn't decided on registering the unit and needs to be reminded

Sample uom library read command:

```
print(uom.dump(uom.config.registration_status))
```

⇒

```
false
```

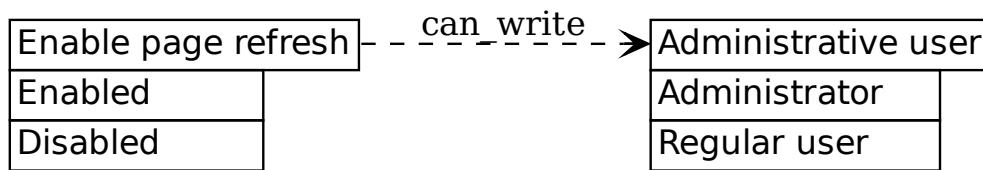
Sample CLI write command:

```
uom set "config/registration_status" "true"
```

[Browse more samples](#)

4.60 Enable page refresh

sum (boolean)	config/refresh_enabled/
Periodically refresh web UI status page	



Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI write command:

```
uom set "config/refresh_enabled" "false"
```

Sample JS request read command:

```
request.get({url:"config/refresh_enabled/"},function(error,response,body) {
  ↪ console.log(body) });
```

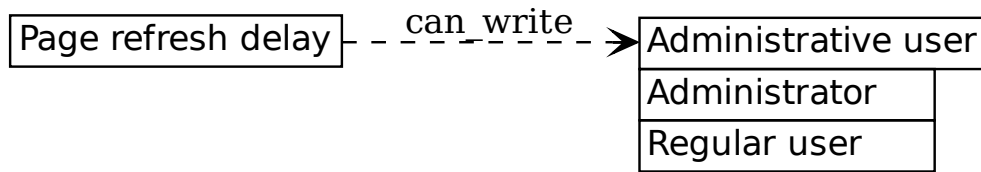
⇒

```
true
```

[Browse more samples](#)

4.61 Page refresh delay

number	config/refresh_delay_minutes/
Status page refresh delay, if refresh is enabled	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/config/refresh_delay_minutes/', ↵
    ↵ auth=auth, headers=headers).json())
```

⇒

1

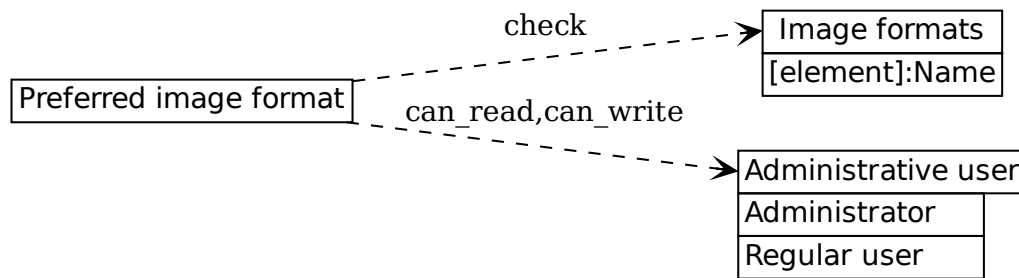
Sample JS request write command:

```
request.put ({url:"config/refresh_delay_minutes/", body:1});
```

[Browse more samples](#)

4.62 Preferred image format

string	config/image_format/
Default image format for plots and meters	



The value is subject to the following constraints: [image formats\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample uom library write command:

```
uom.config.image_format="gif"
```

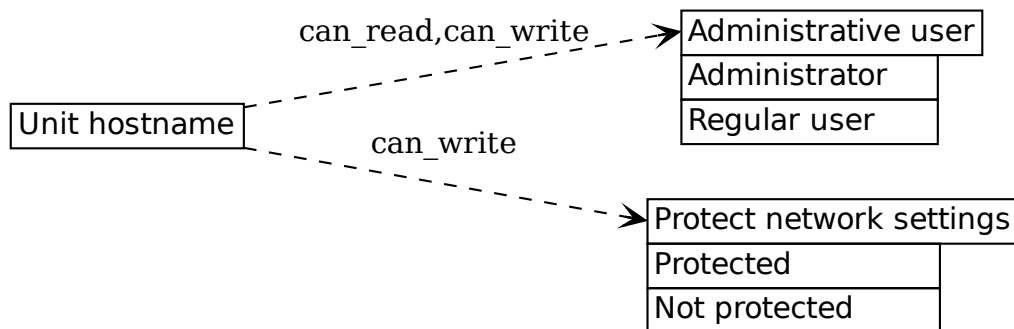
Sample CLI write command:

```
uom set "config/image_format" "\"jpg\""
```

[Browse more samples](#)

4.63 Unit hostname

string	config/hostname/
Host name of the unit (sent by DHCP client, redirected to on network configuration changes when next IP address is unknown)	



The value is subject to the following constraints: [the value](#) matches `^([a-zA-Z0-9][a-zA-Z0-9][a-zA-Z0-9]*[a-zA-Z0-9]).)*([A-Za-z]([A-Za-z0-9-]*[A-Za-z0-9])?|[A-Za-z0-9][A-Za-z0-9-]*[A-Za-z]([A-Za-z0-9-]*[A-Za-z0-9])?)$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample CLI write command:

```
uom set "config/hostname" "\"baz.example.com\""
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/hostname/"
```

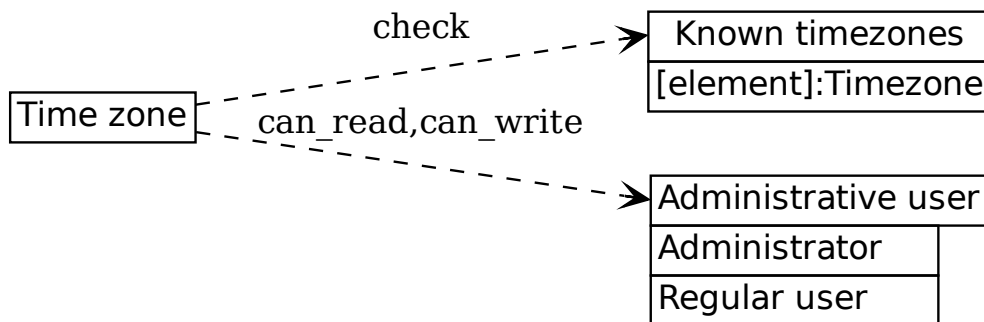
⇒

```
"foo.example.com"
```

[Browse more samples](#)

4.64 Time zone

string	config/timezone/
System time zone	



The value is subject to the following constraints: [known timezones](#)[the value]

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample CLI write command:

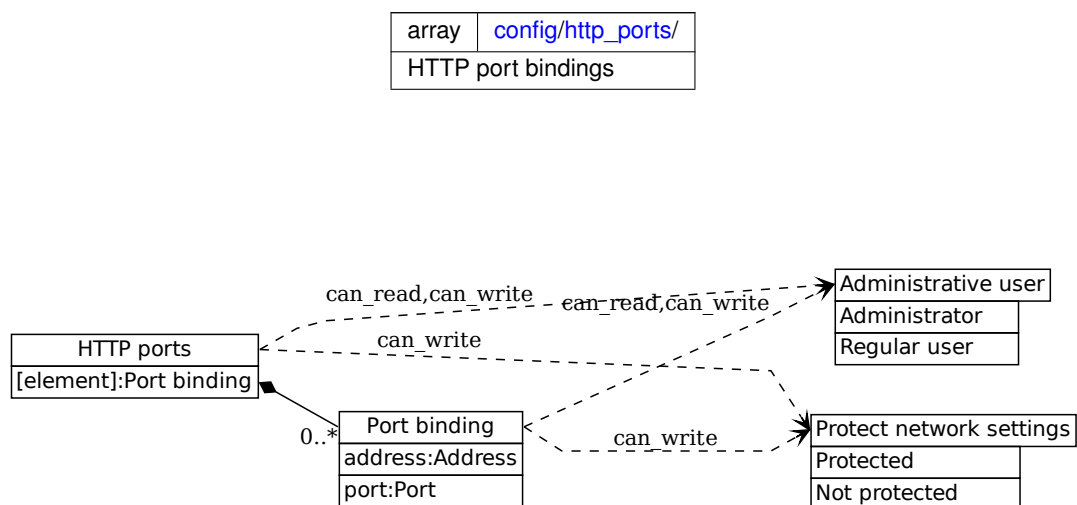
```
uom set "config/timezone" "\"UTC\""
```

Sample JS request write command:

```
request.put ({url:"config/timezone/",body:"UTC"});
```

[Browse more samples](#)

4.65 HTTP ports



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

Changes to this array do not take effect immediately.

This array contains [Port binding](#) elements.

Sample uom library port binding creation command:

```
local composite=uom.copy(uom.config.http_ports)
uom.insert(composite,4,{address="192.168.0.3",port=3})
uom.config.http_ports=composite
```

Sample CLI write command:

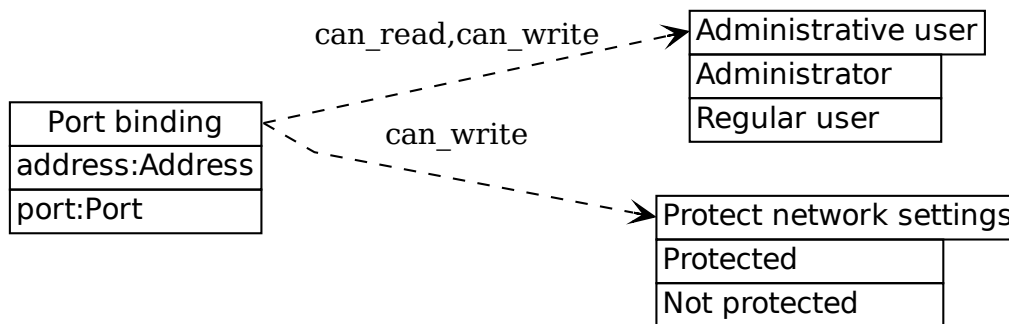
```
uom set "config/http_ports" "[{\\"port\\":80,\\"address\\":\\"192.168.0.24\\"},{\\"port ↵
↵ \":8071,\\"address\\":\\"192.168.0.4\\"},{\\"port\\":80,\\"address ↵
↵ \":\\"192.168.0.96\\"}]"
```

[Browse more samples](#)

See also [HTTP ports: Port binding](#)

4.66 HTTP ports: Port binding

object	config/http_ports/N/
Address and port to bind service to	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This object is a part of a composite value which is modified as a whole.

This object represents a value in persistent storage.

Changes to this object do not take effect immediately.

This object contains the following items:

address	Address
port	Port

Sample uom library deletion command (note that `_port_binding_index` is a variable):

```
local composite=uom.copy(uom.config.http_ports)
uom.remove(composite,_port_binding_index)
uom.config.http_ports=composite
```

Sample JS request read command (note that `_port_binding_index` is a variable):

```
request.get({url:"config/http_ports/"+_port_binding_index.toString()+"/"}, ↵
  ↵ function(error,response,body) {console.log(body)});
```

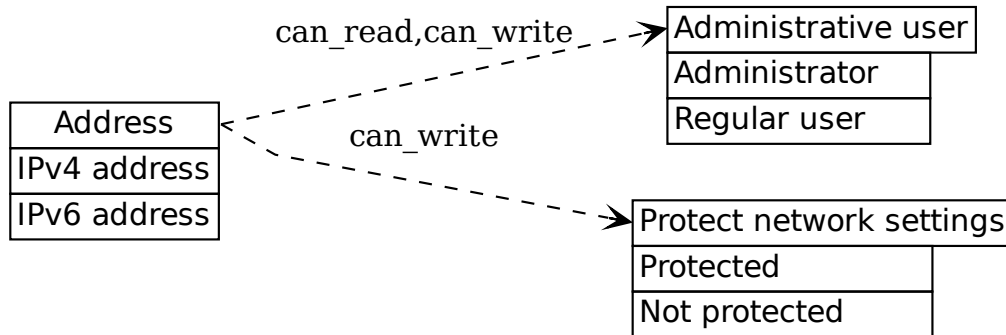
⇒

```
{ "port":8079,"address":"192.168.0.73"}
```

[Browse more samples](#)

4.66.1 Address

sum (string)	config/http_ports/N/address/
Address to listen on	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

string	IPv4 address	IPv4 address to listen on	the value matches <code>^(([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5]).){3}([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5])\$</code>
string	IPv6 address	IPv6 address to listen on	the value matches <code>^(([0-9a-fA-F]{1,4}){7,7}[0-9a-fA-F]{1,4} ([0-9a-fA-F]{1,4}){1,7} ([0-9a-fA-F]{1,4}){1,6}:[0-9a-fA-F]{1,4} ([0-9a-fA-F]{1,4}){1,5}([0-9a-fA-F]{1,4}){1,2} ([0-9a-fA-F]{1,4}){1,4}([0-9a-fA-F]{1,4}){1,3} ([0-9a-fA-F]{1,4}){1,3}([0-9a-fA-F]{1,4}){1,4} ([0-9a-fA-F]{1,4}){1,2}([0-9a-fA-F]{1,4}){1,5} [0-9a-fA-F]{1,4}([0-9a-fA-F]{1,4}){1,6}) ([0-9a-fA-F]{1,4}){1,7} : fe80:([0-9a-fA-F]{0,4}){0,4}%[0-9a-zA-Z]{1,} ::(ffff(:0{1,4}){0,1}){0,1}([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5]).){3}([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5])\$</code>

Sample requests write command (note that `_port_binding_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/http_ports/'+str(↵
    ↵ _port_binding_index)+'/address/', auth=auth, headers=headers, json ↵
    ↵ ='192.168.0.82')
```

Sample JS request read command (note that `_port_binding_index` is a variable):

```
request.get({url:"config/http_ports/"+_port_binding_index.toString()+"/address ↵
    ↵ /"}, function(error, response, body) {console.log(body)});
```

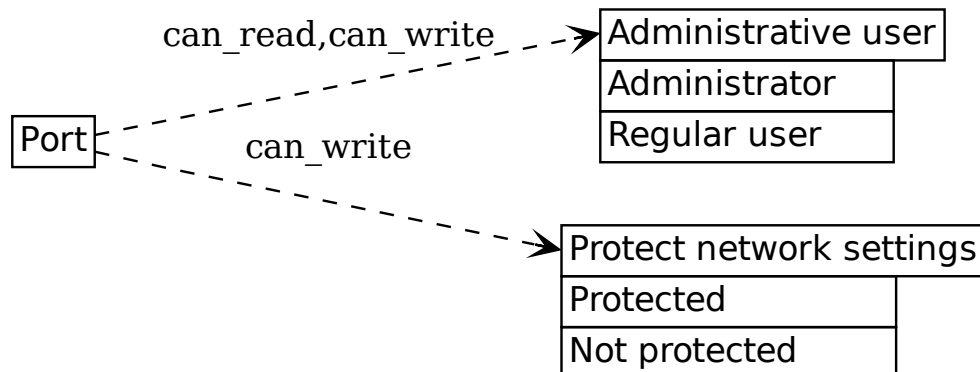
⇒

"192.168.0.7"

[Browse more samples](#)

4.66.2 Port

number	config/http_ports/N/port/
Port number to bind to	



The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0
- [the value](#) is less than 65535

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This number is a part of a composite value which is modified as a whole.

This number represents a value in persistent storage.

Changes to this number do not take effect immediately.

Sample CLI read command (note that `port_binding_index` is a variable):

```
uom get "config/http_ports/${port_binding_index}/port "
```

⇒

6

Sample uom library read command (note that `_port_binding_index` is a variable):

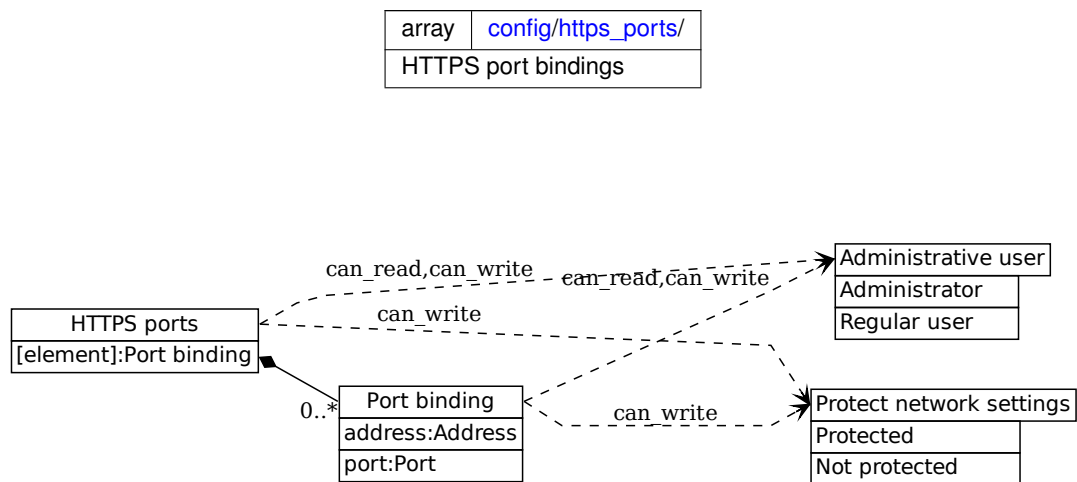
```
print (uom.dump (uom.config.http_ports[_port_binding_index].port) )
```

⇒

80

[Browse more samples](#)

4.67 HTTPS ports



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

Changes to this array do not take effect immediately.

This array contains [Port binding](#) elements.

Sample uom library write command:

```
uom.config.https_ports={{address="192.168.0.4",port=8443}}
```

Sample JS request read command:

```
request.get({url:"config/https_ports/"},function(error,response,body) {console.log(body)});
```

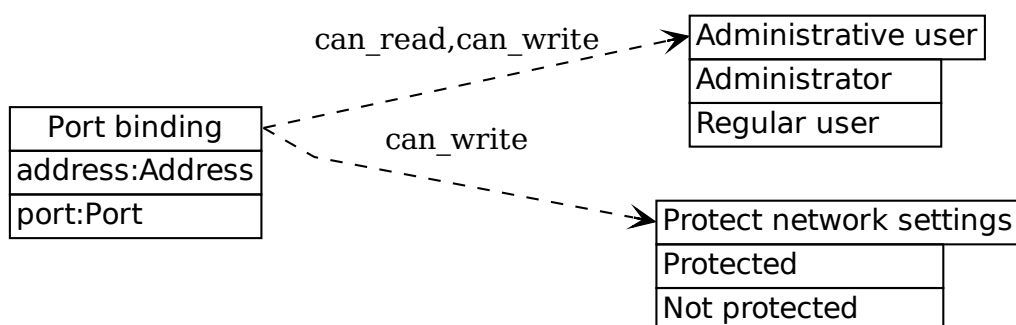
⇒

[Browse more samples](#)

See also [HTTPS ports: Port binding](#)

4.68 HTTPS ports: Port binding

object	config/https_ports/N/
Address and port to bind service to	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This object is a part of a composite value which is modified as a whole.

This object represents a value in persistent storage.

Changes to this object do not take effect immediately.

This object contains the following items:

address	Address
port	Port

Sample CLI deletion command (note that `port_binding_index` is a variable):

```
uom remove "config/https_ports/${port_binding_index}"
```

Sample CLI read command (note that `port_binding_index` is a variable):

```
uom get "config/https_ports/${port_binding_index}"
```

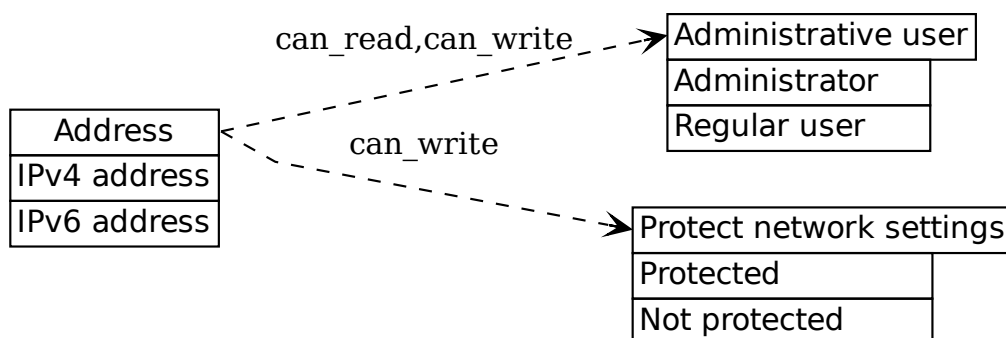
⇒

```
{"port":18443,"address":"192.168.0.7"}
```

[Browse more samples](#)

4.68.1 Address

sum (string)	config/https_ports/N/address/
Address to listen on	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

string	IPv4 address	IPv4 address to listen on	the value matches $\wedge([0-9][1-9][0-9]1[0-9]\{2\}2[0-4][0-9]25[0-5]).\{3\}([0-9][1-9][0-9]1[0-9]\{2\}2[0-4][0-9]25[0-5])\$$
string	IPv6 address	IPv6 address to listen on	the value matches $\wedge([0-9a-fA-F]\{1,4\}:\{7,7\}[0-9a-fA-F]\{1,4\}:[0-9a-fA-F]\{1,4\}:\{1,7\}:[0-9a-fA-F]\{1,4\}:\{1,6\}:[0-9a-fA-F]\{1,4\}:[0-9a-fA-F]\{1,4\}:\{1,5\}:[0-9a-fA-F]\{1,4\}:\{1,2\}:[0-9a-fA-F]\{1,4\}:\{1,4\}:[0-9a-fA-F]\{1,4\}:\{1,3\}:[0-9a-fA-F]\{1,4\}:\{1,3\}:[0-9a-fA-F]\{1,4\}:\{1,4\}:[0-9a-fA-F]\{1,4\}:\{1,2\}:[0-9a-fA-F]\{1,4\}:\{1,5\}:[0-9a-fA-F]\{1,4\}:(:[0-9a-fA-F]\{1,4\}) :([0-9a-fA-F]\{1,4\})\{1,7\} :fe80:([0-9a-fA-F]\{0,4\})\{0,4\}%[0-9a-zA-Z]\{1,\}::ffff(:0{1,4})\{0,1\}:0,1 ([0-9][1-9][0-9]1[0-9]\{2\}2[0-4][0-9]25[0-5]).\{3\}([0-9][1-9][0-9]1[0-9]\{2\}2[0-4][0-9]25[0-5])\$$

Sample JS request read command (note that `_port_binding_index` is a variable):

```
request.get({url:"config/https_ports/"+_port_binding_index.toString()+"/address ↵
↵ /"},function(error,response,body){console.log(body)});
```

⇒

```
"192.168.0.50"
```

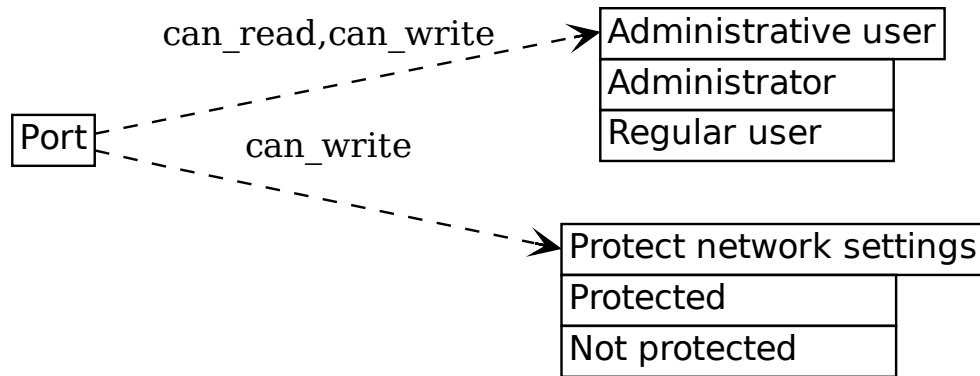
Sample curl write command (note that `:port_binding_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"192.168.0.12\"" "http ↵
↵ ://192.168.0.100/restapi/config/https_ports/:port_binding_index/address/"
```

[Browse more samples](#)

4.68.2 Port

number	config/https_ports/N/port/
Port number to bind to	



The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater than 0
- the value is less than 65535

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This number is a part of a composite value which is modified as a whole.

This number represents a value in persistent storage.

Changes to this number do not take effect immediately.

Sample requests write command (note that `_port_binding_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/https_ports/'+str(↔
↔ _port_binding_index)+'port/',auth=auth,headers=headers,json=18443)
```

Sample JS request read command (note that `_port_binding_index` is a variable):

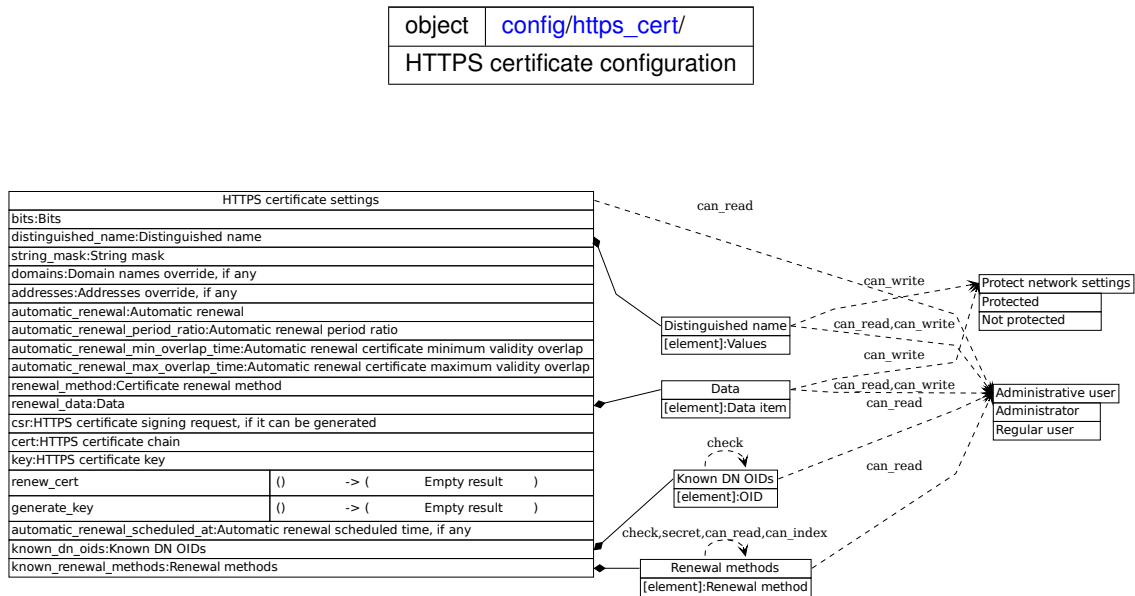
```
request.get({url:"config/https_ports/"+_port_binding_index.toString()+"/port/"}, ↔
↔ function(error,response,body) {console.log(body)});
```

⇒

8443

[Browse more samples](#)

4.69 HTTPS certificate settings



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

bits	Bits
distinguished_name	Distinguished name
string_mask	String mask
domains	Domain names override, if any
addresses	Addresses override, if any
automatic_renewal	Automatic renewal
automatic_renewal_period_ratio	Automatic renewal period ratio
automatic_renewal_min_overlap_time	Automatic renewal certificate minimum validity overlap
automatic_renewal_max_overlap_time	Automatic renewal certificate maximum validity overlap
renewal_method	Certificate renewal method
renewal_data	Data
csr	HTTPS certificate signing request, if it can be generated
cert	HTTPS certificate chain
key	HTTPS certificate key
renew_cert	Renew certificate
generate_key	Generate key
automatic_renewal_scheduled_at	Automatic renewal scheduled time, if any
known_dn_oids	Known DN OIDs
known_renewal_methods	Renewal methods

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/https_cert/"
```

⇒

...

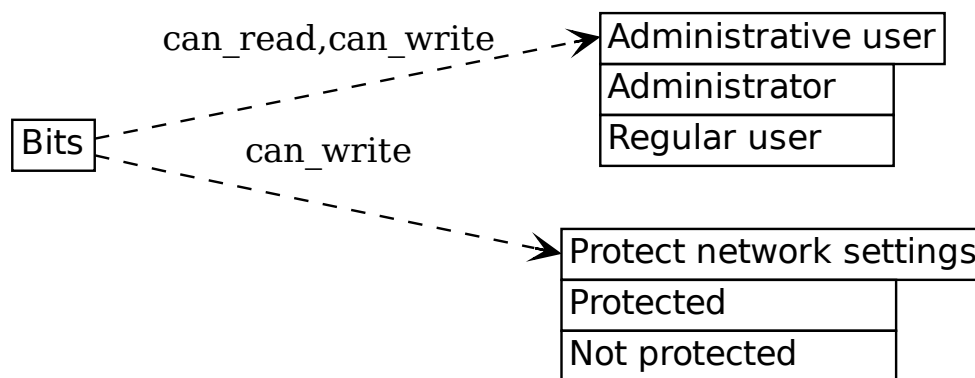
Sample CLI write command:

```
uom set "config/https_cert" ...
```

[Browse more samples](#)

4.69.1 Bits

number	config/https_cert/bits/
Size of new private keys	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This number represents a value in persistent storage.

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/config/https_cert/bits/', auth= ↵
    ↵ auth, headers=headers).json())
```

⇒

8192

Sample uom library read command:

```
print(uom.dump(uom.config.https_cert.bits))
```

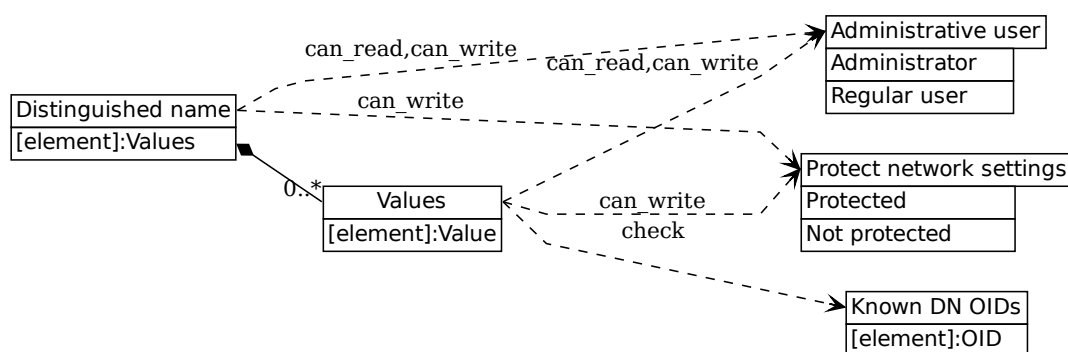
⇒

2048

[Browse more samples](#)

4.69.2 Distinguished name

map	config/https_cert/distinguished_name/
New certificate distinguished name elements	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This map is composite, i.e. is modified as a whole.

This map represents a value in persistent storage.

This map contains [Values](#) elements.

Sample uom library write command:

```
uom.config.https_cert.distinguished_name={commonName={"Digital Loggers Unit"}, ↵
    ↵ countryName={"US"},localityName={"Santa Clara"},stateOrProvinceName={" ↵
    ↵ California"}}}
```

Sample curl write command:

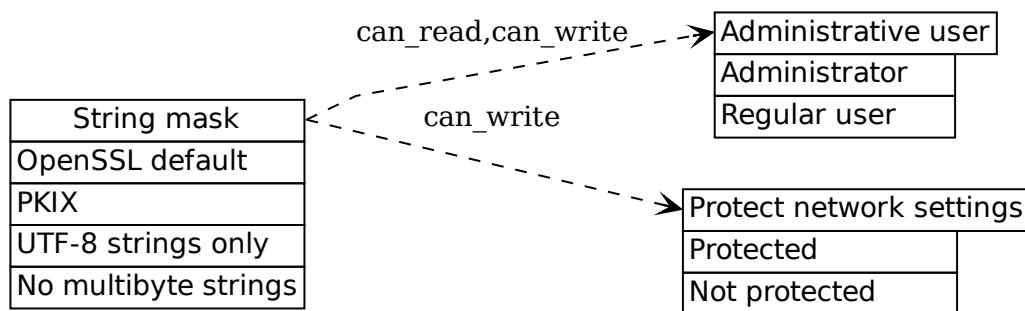
```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary '{"commonName":[" ↵
↵ Digital Loggers Unit"],["countryName":["US"],["stateOrProvinceName ↵
↵ "":["California"],["localityName":["Santa Clara"]}]' "http ↵
↵ ://192.168.0.100/restapi/config/https_cert/distinguished_name/"
```

[Browse more samples](#)

See also [Distinguished name: Values](#)

4.69.3 String mask

sum (enumerated string)	config/https_cert/string_mask/
The set of string types to use for new certificates	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant "default"	OpenSSL default	PrintableString, T61String and BMPString
constant "pkix"	PKIX	PrintableString and BMPString
constant "utf8only"	UTF-8 strings only	UTF8String
constant "nombstr"	No multibyte strings	PrintableString and T61String

Sample CLI read command:


```
uom get "config/https_cert/string_mask"
```

⇒

```
"default"
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/https_cert/string_mask/"
```

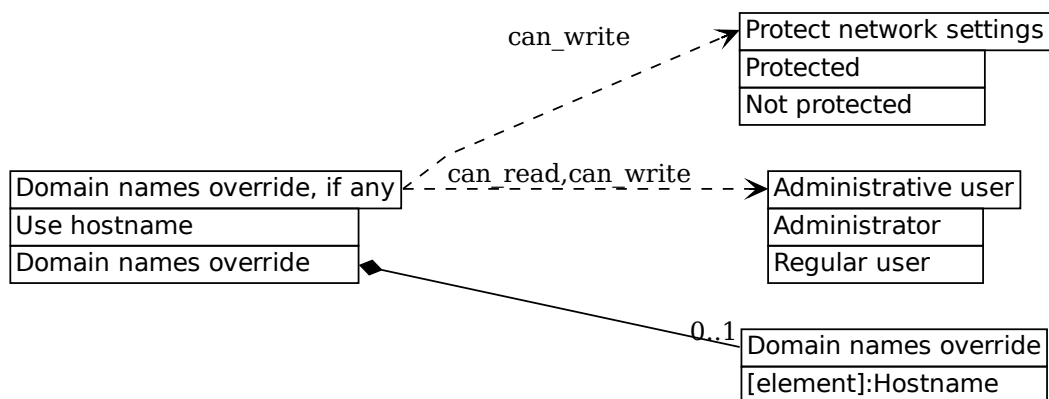
⇒

```
"nombstr"
```

[Browse more samples](#)

4.69.4 Domain names override, if any

sum (optional array)	config/https_cert/domains/
Explicit domain name list to certify for when enrolling certificate, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Use hostname	Certify for the current hostname when enrolling certificate
array	Domain names override	Explicit domain name list to certify for when enrolling certificate

Sample uom library read command:

```
print(uom.dump(uom.config.https_cert.domains))
```

⇒

null

Sample JS request read command:

```
request.get({url:"config/https_cert/domains/"},function(error,response,body) {  
    ↪ console.log(body)});
```

⇒

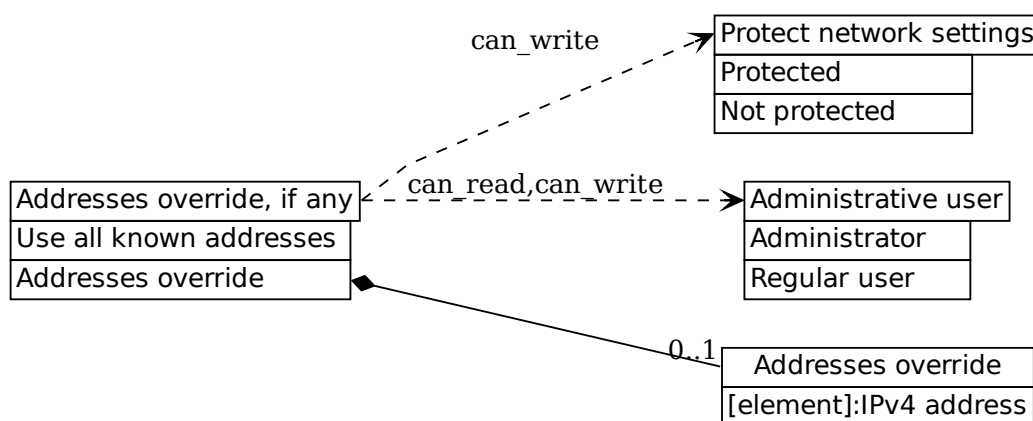
null

[Browse more samples](#)

See also [Domain names override, if any: Domain names override](#)

4.69.5 Addresses override, if any

sum (optional array)	config/https_cert/addresses/
Explicit list of addresses to certify for when enrolling certificate, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Use all known addresses	Certify for all current addresses when enrolling certificate automatically
array	Addresses override	Explicit list of addresses to certify for when enrolling certificate

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "["2.204.44.106\]" " ↵
↵ http://192.168.0.100/restapi/config/https_cert/addresses/"
```

Sample CLI read command:

```
uom get "config/https_cert/addresses"
```

```
⇒
```

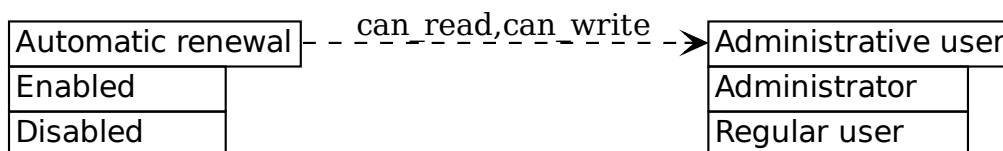
```
null
```

[Browse more samples](#)

See also [Addresses override, if any: Addresses override](#)

4.69.6 Automatic renewal

sum (boolean)	config/https_cert/automatic_renewal/
Automatic renewal of certificate at or near expiry	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
↵ json" -H "Accept: application/json" --data-binary "true" "http
↵ ://192.168.0.100/restapi/config/https_cert/automatic_renewal/"
```

Sample CLI read command:

```
uom get "config/https_cert/automatic_renewal"
```

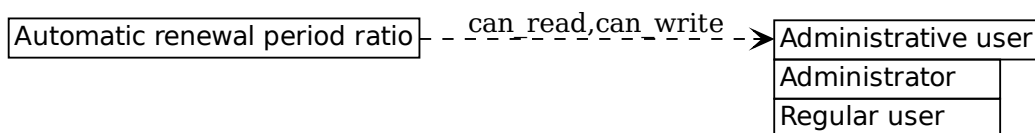
⇒

```
true
```

[Browse more samples](#)

4.69.7 Automatic renewal period ratio

number	config/https_cert/automatic_renewal_period_ratio/
Desired fraction of certificate validity time to wait before automatic renewal	



The value represents ratio, which is dimensionless.

To convert to percents, multiply by 100.

To convert from percents, divide by 100.

The value is subject to the following constraints: all of the following is true:

- [the value](#) is greater or equal to 0
- [the value](#) is less or equal to 1

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample uom library write command:

```
uom.config.https_cert.automatic_renewal_period_ratio=1
```

Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/config/https_cert/ ↵
↵ automatic_renewal_period_ratio/', auth=auth, headers=headers, json=0.8)
```

[Browse more samples](#)

4.69.8 Automatic renewal certificate minimum validity overlap

number	config/https_cert/automatic_renewal_min_overlap_time/
Minimum certificate validity interval overlap for automatic renewal	

Automatic renewal certificate minimum validity overlap	--can_read,can_write-->	Administrative user
		Administrator
		Regular user

The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample uom library write command:

```
uom.config.https_cert.automatic_renewal_min_overlap_time=241200
```

Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "108000" "http ↵
↵ ://192.168.0.100/restapi/config/https_cert/ ↵
↵ automatic_renewal_min_overlap_time/"
```

[Browse more samples](#)

4.69.9 Automatic renewal certificate maximum validity overlap

number	config/https_cert/automatic_renewal_max_overlap_time/
Maximum certificate validity interval overlap for automatic renewal	

Automatic renewal certificate maximum validity overlap	- - can_read, can_write ->	Administrative user
		Administrator
		Regular user

The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: the value is greater or equal to 0

Retrieving the value is denied if not administrative user

Changing the value is denied if not administrative user

This number represents a value in persistent storage.

Sample JS request read command:

```
request.get ({url: "config/https_cert/automatic_renewal_max_overlap_time/"}, ↵
  ↵ function (error, response, body) {console.log (body) });
```

⇒

561600

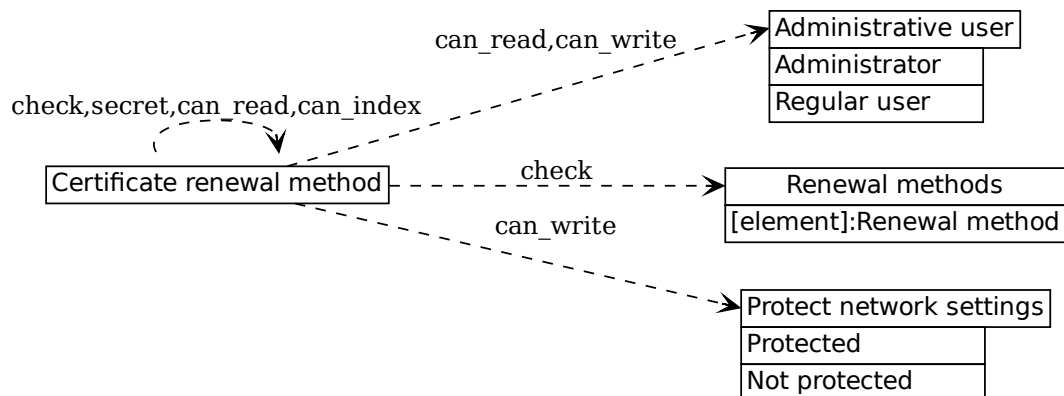
Sample JS request write command:

```
request.put ({url: "config/https_cert/automatic_renewal_max_overlap_time/", body ↵
  ↵ :810000});
```

[Browse more samples](#)

4.69.10 Certificate renewal method

string	config/https_cert/renewal_method/
	Method to use when renewing the certificate



The value is subject to the following constraints: [renewal methods\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample uom library read command:

```
print(uom.dump(uom.config.https_cert.renewal_method))
```

⇒

```
"acmev2"
```

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/config/https_cert/renewal_method ↵
↵ /', auth=auth, headers=headers).json())
```

⇒

```
'est'
```

[Browse more samples](#)

See also [HTTPS certificate settings: Data](#)

4.69.11 HTTPS certificate signing request, if it can be generated

sum (variant)	config/https_cert/csr/
The certificate signing request to sign (read may fail if key generation is in progress)	

HTTPS certificate signing request, if it can be generated	- - can_read ->	Administrative user
HTTPS certificate signing request		Administrator
Certificate signing request generation failure		Regular user

Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

string	HTTPS certificate signing request	The certificate signing request you need to sign in order to obtain a
constant false	Certificate signing request generation failure	No valid certificate signing request could be generated, check disti

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/config/https_cert/csr/', auth= ↵
    ↵ auth, headers=headers) .json())
```

⇒

Sample CLI read command:

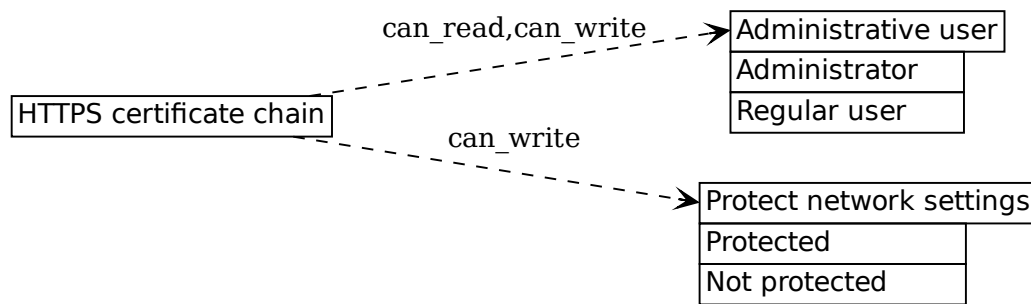
```
uom get "config/https_cert/csr"
```

⇒

[Browse more samples](#)

4.69.12 HTTPS certificate chain

string	config/https_cert/cert/
HTTPS certificate chain presented by the unit to clients (read may fail if renewal is in progress)	



The value contains PEM format data (has native MIME type `application/x-pem-file`).

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

Using the string as a field for indexing into the grandparent collection is denied

This string represents a value in persistent storage.

This string can change as if by itself or indirectly because of other actions.

Changes to this string cannot be tracked.

Changes to this string may have an effect besides setting value.

Changes to this string do not take effect immediately.

Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/config/https_cert/cert/', auth=auth, ⌂
    ⌂ headers=headers, json='-----BEGIN CERTIFICATE-----\nMIIPk0LyScqcR4/ ⌂
    ⌂ YQJlsDjdZLB6bjCaoiZPoWVnEAzFZyzxUxZVAUViu4Jls7gle\ ⌂
    ⌂ nchQcHpQzOyeLOYfi9stmCVlw95bVJDPVNBT7mCHmynJ4DFbmFplySQg5btyQgbWW\ ⌂
    ⌂ n0dCZIDbsPHGRoztsXP1uldtTfzFUHSsj2SC3zx/30hGbq8/M0hO2B2LuQnhzj8JF\nY+ ⌂
    ⌂ Em4ik0tAMVDgknu00Je7mOtk7n+37+6gqaD81PbSoAy8ItJZvj1IHhG3+ZTl3\n8j/ ⌂
    ⌂ C9eLEf8vr71R0bf+X7xfTSjqwqOm5QgOqkEMKYMz0HBNMNiygSd5b74cvzhMd\nJ7XSYs+ ⌂
    ⌂ GH0TlhmBljsiEB3gO/uo6bVGL+2zOlXbKAVNoJz872KYwRJEfvg8Jp1l6\n8PCEOU2BMT6l+ ⌂
    ⌂ sVUv9OiIpD+rRPmyjh8m0Wigrhwb2AXTUxUZTjMjnn5zuo7UTxZ\ ⌂
    ⌂ nildYwp7dKhgyqwx4XPZGcce7sJL1WyyUjXiVprayPkifR18cMZVatThT/p2/fzem\ ⌂
    ⌂ nm06DfslfnQiUJ95fttra4Y/yyleK+wNnxOFTW5D4dC2pO/BWPOAjpgVhHBDeK8jH/e\ ⌂
    ⌂ n7XiqkSa1JMuS8y25gmyV5cmC/eL+ZRTLiuvlmEcSPdr2sXwbJTqrbYiz7qnKUCMm\ ⌂
    ⌂ nMziam5uXhSxZzqM8KwLAzRqnXx0Tg7mIK==\n-----END CERTIFICATE-----\n')
```

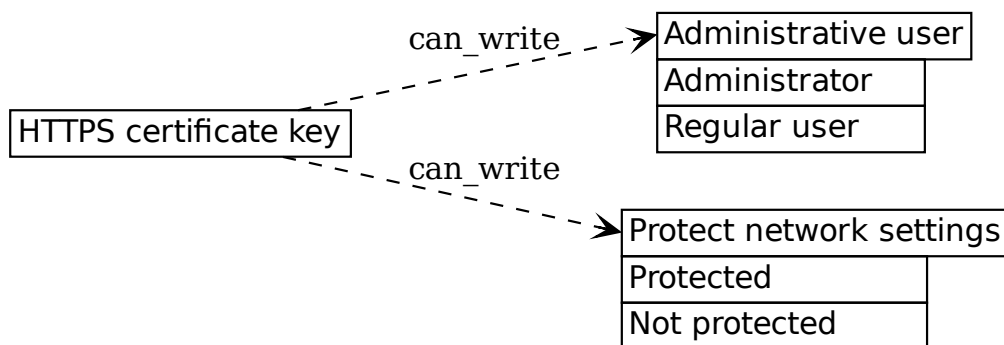
Sample CLI write command:

```
uom set "config/https_cert/cert" "\"-----BEGIN CERTIFICATE-----\\nMII09qlcky8aj+ ↵
↵ Gc3AqarPkRyvmNlX6fI9fRnRwGchh6vAHJPO2yBaCzJJ3qcElU\\nyq7+ ↵
↵ yDCPjn2Nm6hITdGF9CrjJz4k+dTGSKaebdHfB6nCBtUn197MzCoFpnZs3eDB\\ ↵
↵ nIlkXKi5PiKMw5D5vTCaMaK/NpN1lc8H00zINTC+Hfg6YkcxV9N2XoePwgA9mZX4D\\ ↵
↵ n1YeIpItB0UVfRP7ZmI5BBkD4IO6MLW33Fi6opjFgm/G5U0k8zltTdAlC8YheXw0U\\ ↵
↵ n2blxClqzRh76vOo2UkYhZLWCJ1QQVn8l9WqJ5VXEyLRycRN0PNvhUaWGqVc/Jmef\\nDP/ ↵
↵ Xdfm5HwWKA099nbu+ZchKHfnUwZDAUH4BrFAtke5uW6pFSnyLMkFiQne5Epl6\\ ↵
↵ n4LUsXW7fiMJrGaJS93CdOnN6SMZWbF8YEtbalkoc1p0cob1pjiKDb7Evx4F8w5D6\\ ↵
↵ nucn0sHQE+K1zosvdAqYVbA4HHe1Ba5crNK9DVavIONXZti/wQGQiwf0xkMQxU22s\\ ↵
↵ nrBjeCvtJ0o48aTQ6+n2bDCOIA5Rkvgcdf1KRqxH6F5BOAOzmdmaliRoDotV710HJ\\ ↵
↵ nJTrc4P7h jgkOEU4ek2viMly96ZhZQW+qGc1Y6SCxCQ4cOWh5YjdBYQ7wN9ZymoCU\\nki7D/ ↵
↵ R0pAjKx8L3ktL8RmYzIPL6yecXynMFd3aX9D7qWG9IYa5Q3GVcIi4VENS6i\\ ↵
↵ nwD2FPbtQdFF2zDbQX8faihOYQrG0CBHjxgRwyMI/ttZWX1Chj94IUdYI1apoRWWW\\ ↵
↵ nh1OZ1IB4r9sKRYNEL4NCV3O+5nTeK01bYEhmkhJyxNuUdxqDJvxR3QoOzu1LB41t\\ ↵
↵ nXd7JGXdOxA/oqnaa7PLnRs8ox4aH9prOMISX5t25oUbFCr3He7Tk5XetvdHQ\\n-----END ↵
↵ CERTIFICATE-----\\n\""
```

[Browse more samples](#)

4.69.13 HTTPS certificate key

string	config/https_cert/key/
The key used by the HTTPS certificate presented by the unit; certificate will be renewed as a side effect of writing; writing actual da	



The value contains PEM format data (has native MIME type `application/x-pem-file`).

Retrieving the value is denied

Changing the value is denied if not [administrative user](#)

Using the string as a field for indexing into the grandparent collection is denied

This string represents a value in persistent storage.

This string can change as if by itself or indirectly because of other actions.

Changes to this string cannot be tracked.

Changes to this string may have an effect besides setting value.

Changes to this string do not take effect immediately.

This string should be displayed in a secure manner.

Representation of the resource cannot be obtained. Attempts to do so via a JSON API will succeed but return `'{"$ref":""}'` which means "the value of this resource".

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
  ↵ json" -H "Accept: application/json" --data-binary "\"-----BEGIN PRIVATE KEY ↵
  ↵ -----\\nMIIP03Dqr72/NgTMMWY9khD9qFu89LXmuuDhVtTz9gXO5HtOM0SDKCdrShbJF2q5\\ ↵
  ↵ nMEdKc3eqOINEMWEuZaGmSql/t+ukJsRCszm3aKKmcUZUoYqjAZOgggcoSNqd+Bfk\\ ↵
  ↵ n4CNCp3sMnOq/Lt6O/dmo+AEQSV2K/WrAdlFwImt7e5wiHzRH10dtXTZDgIhR8PO\\ ↵
  ↵ nePuf2IvPQ/A4WP0hSO1L6XW\\n-----END PRIVATE KEY-----\\n\" \"http ↵
  ↵ ://192.168.0.100/restapi/config/https_cert/key/"
```

Sample `uom` library write command:

```
uom.config.https_cert.key="-----BEGIN PRIVATE KEY-----\n
MII9+ugs3eV9+eXFVuvZEi6DRdsN3Mblj/XGXHOB0qZuhqC2wJythjv5ewjw2dLw\
nyniKk22KnLwGkK4vE/fl8KZYu7/toM6vZHt0tnC1bEIQgaNMLL3eySnoTQvFVbv\
f72NAUTB6ckc2ZDMdIYbAUQwd9L/A+u+ihpZjjBhn7rhfjPj9eUllCQQENulCJqH\
HxCkngNYuIv/hi0jiB6/Asen3vGYfA19tWrgvR/AUPyOmwxFp5ZwE99WjT4D8qSD\
+UnvwHdWGjzv+/9U/Q7qVFs1TkHmG35xouz6E1trPMPja1Sqx/HdaSZ4NcGt0wzb\
vz5lkBkvxqn/hHropUYDUqSWLO5YQFbT1XLU9+0GKujBkWXOTwg6NH\
-----END PRIVATE KEY-----\n"
```

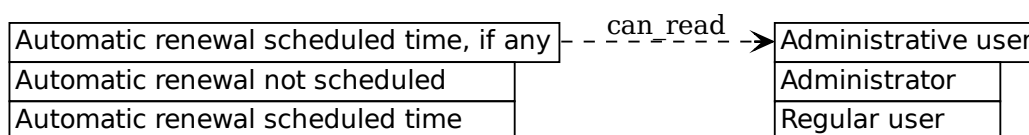
Browse more samples

See also [HTTPS certificate settings: Renew certificate](#)

See also [HTTPS certificate settings: Generate key](#)

4.69.14 Automatic renewal scheduled time, if any

sum (optional number)	config/https_cert/automatic_renewal_scheduled_at/
Currently scheduled automatic renewal time, as determined by times derived from renewal period ratio and overlap time, whichever	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant null	Automatic renewal not scheduled	Automatic renewal not enabled, and thus not scheduled
number	Automatic renewal scheduled time	Currently scheduled automatic renewal time, as determined by times derived

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/https_cert/automatic_renewal_scheduled_at/"
```

⇒

1518239223

Sample JS request read command:

```
request.get({url:"config/https_cert/automatic_renewal_scheduled_at/"},function( ↵
↵ error,response,body) {console.log(body)});
```

⇒

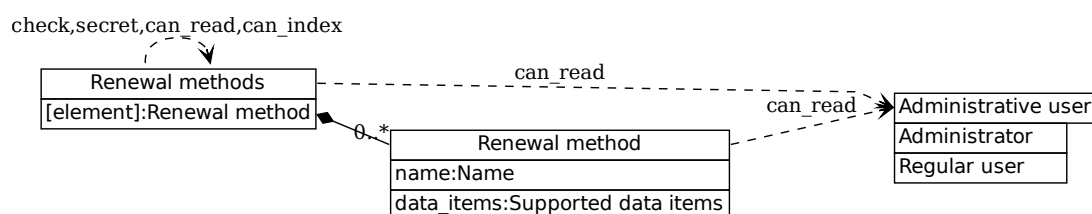
null

[Browse more samples](#)

See also [HTTPS certificate settings: Known DN OIDs](#)

4.69.15 Renewal methods

map	config/https_cert/known_renewal_methods/
Known renewal methods	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Renewal method](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print(uom.dump(uom.config.https_cert.known_renewal_methods))
```

⇒

<...>

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/config/https_cert/ ↵
    ↵ known_renewal_methods/', auth=auth, headers=headers).json())
```

⇒

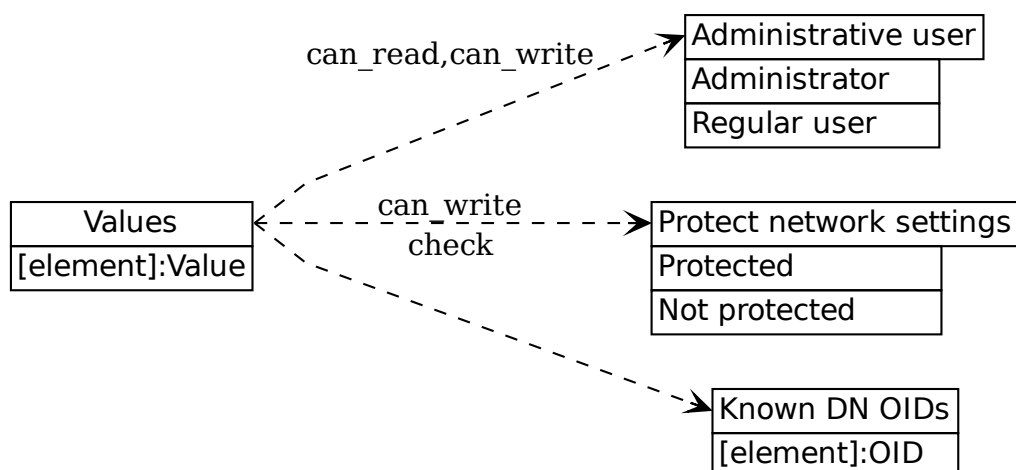
<...>

[Browse more samples](#)

See also [Renewal methods: Renewal method](#)

4.70 Distinguished name: Values

array	config/https_cert/distinguished_name/S/
Distinguished name element value set	



The value is subject to the following constraints: any of the following is true:

- [known DN OIDs](#)[index of the value]

- index of the value matches `^ 012{1,}`

Retrieving the value is denied if not **administrative user**

Changing the value is denied if any of the following is true:

- not **administrative user**
- **protect network settings**

This array is a part of a composite value which is modified as a whole.

This array represents a value in persistent storage.

This array contains **Value** elements.

Sample `curl` value creation command (note that `:values` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
↵ "Accept: application/json" --data-binary "\"California\"" "http ↵
↵ ://192.168.0.100/restapi/config/https_cert/distinguished_name/:values/"
```

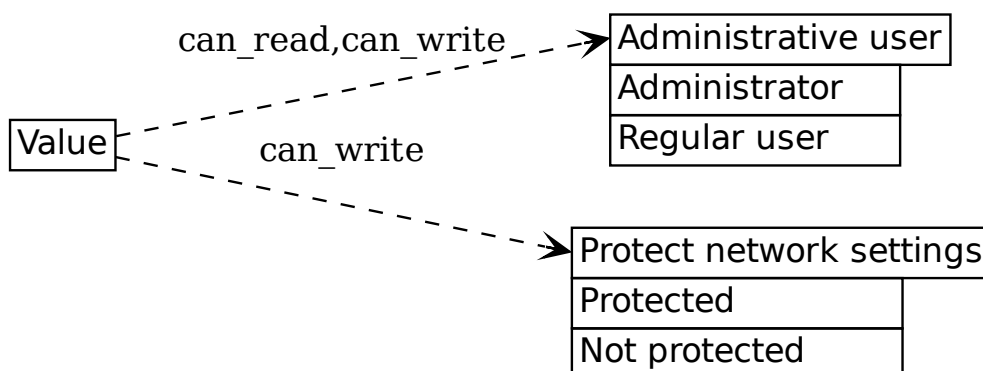
Sample `uom` library value creation command (note that `_values` is a variable):

```
local composite=uom.copy(uom.config.https_cert.distinguished_name)
uom.insert(composite[_values],1,"US")
uom.config.https_cert.distinguished_name=composite
```

[Browse more samples](#)

4.70.1 Value

string	config/https_cert/distinguished_name/S/N/
Distinguished name element value	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample CLI write command (note that `values` and `value_index` are variables):

```
uom set "config/https_cert/distinguished_name/${values}/${value_index}" "\" ↵
↵ California\""
```

Sample CLI read command (note that `values` and `value_index` are variables):

```
uom get "config/https_cert/distinguished_name/${values}/${value_index}"
```

⇒

```
"US"
```

[Browse more samples](#)

4.71 Domain names override, if any: Domain names override

(possibly) array	config/https_cert/domains/
Explicit domain name list to certify for when enrolling certificate	

This array contains [Hostname](#) elements.

Sample `requests` hostname creation command:

```
requests.post('http://192.168.0.100/restapi/config/https_cert/domains/', auth=auth ↵
↵ , headers=headers, json='bar.example.com')
```

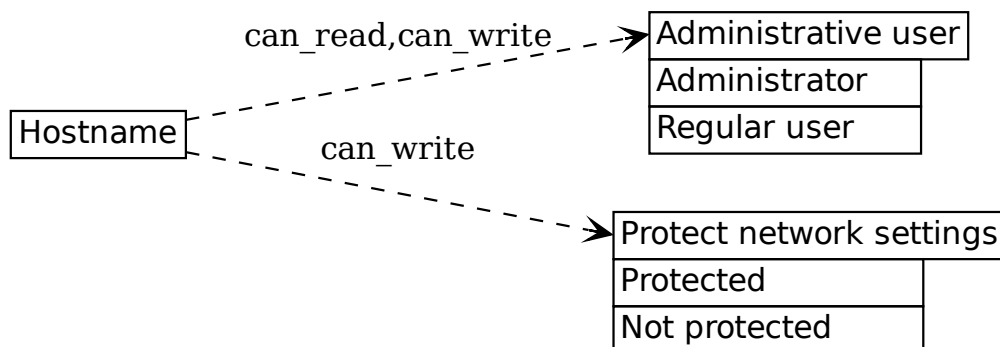
Sample CLI hostname creation command:

```
uom insert "config/https_cert/domains/0" "\"foo.example.com\""
```

[Browse more samples](#)

4.71.1 Hostname

string	config/https_cert/domains/N/
Hostname to certify for	



The value is subject to the following constraints: **the value** matches `^([a-zA-Z0-9]|[a-zA-Z0-9][a-zA-Z0-9]*[a-zA-Z0-9]).)*([A-Za-z]([A-Za-z0-9]*[A-Za-z0-9])?[A-Za-z0-9][A-Za-z0-9]*[A-Za-z]([A-Za-z0-9]*[A-Za-z0-9])?)$`

Retrieving the value is denied if not **administrative user**

Changing the value is denied if any of the following is true:

- not **administrative user**
- **protect network settings**

This string represents a value in persistent storage.

Sample JS `request read` command (note that `_hostname_index` is a variable):

```
request.get({url:"config/https_cert/domains/"+_hostname_index.toString()+"/"}, ←
  ↪ function(error,response,body) {console.log(body)});
```

⇒

```
"foo.example.com"
```

Sample `requests write` command (note that `_hostname_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/https_cert/domains/'+str( ←
  ↪ _hostname_index)+'/',auth=auth,headers=headers,json='baz.example.com')
```

[Browse more samples](#)

4.72 Addresses override, if any: Addresses override

(possibly) array	config/https_cert/addresses/
Explicit list of addresses to certify for when enrolling certificate	

This array contains **IPv4 address** elements.

Sample JS request IPv4 address creation command:

```
request.post({url:"config/https_cert/addresses/",body:"5.254.250.254"});
```

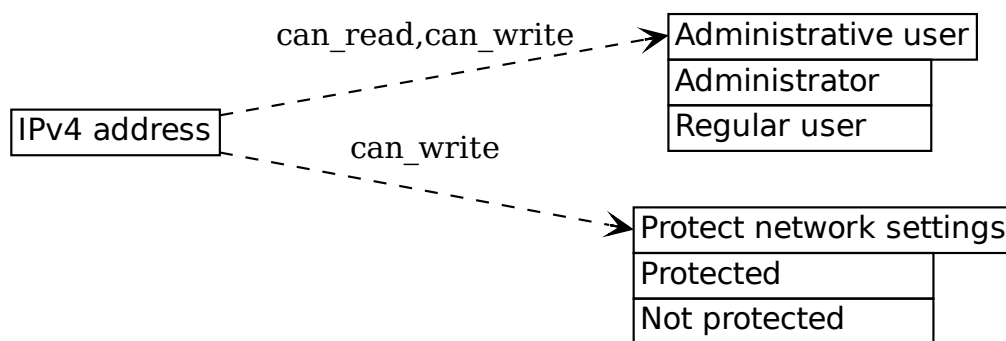
Sample requests IPv4 address creation command:

```
requests.post('http://192.168.0.100/restapi/config/https_cert/addresses/',auth=↔
↔ auth=headers=headers,json='0.55.0.212')
```

[Browse more samples](#)

4.72.1 IPv4 address

string	config/https_cert/addresses/N/
IPv4 address to certify for, in dotted quad notation	



The value is subject to the following constraints: [the value](#) matches `^([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]).{3}([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample JS request write command (note that `_ipv4_address_index` is a variable):

```
request.put({url:"config/https_cert/addresses/"+_ipv4_address_index.toString()↔
↔ +"/",body:"252.225.80.4"});
```

Sample curl read command (note that `:ipv4_address_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↔
↔ restapi/config/https_cert/addresses/:ipv4_address_index/"
```

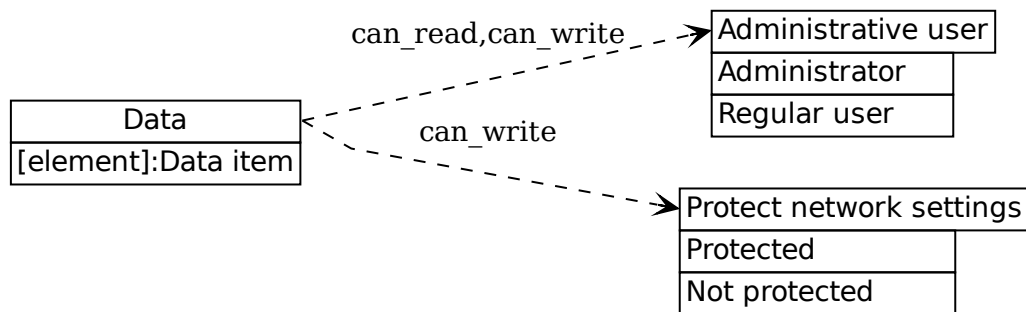
⇒

```
"216.253.145.171"
```

[Browse more samples](#)

4.73 HTTPS certificate settings: Data

map	config/https_cert/renewal_data/
Renewal-method-specific data	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This map represents a value in persistent storage.

This map contains [Data item](#) elements.

Sample `curl` data item creation command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"rsa\"" "http ↵
↵ ://192.168.0.100/restapi/config/https_cert/renewal_data/acmev1_key_type/"
```

Sample CLI read command:

```
uom get "config/https_cert/renewal_data"
```

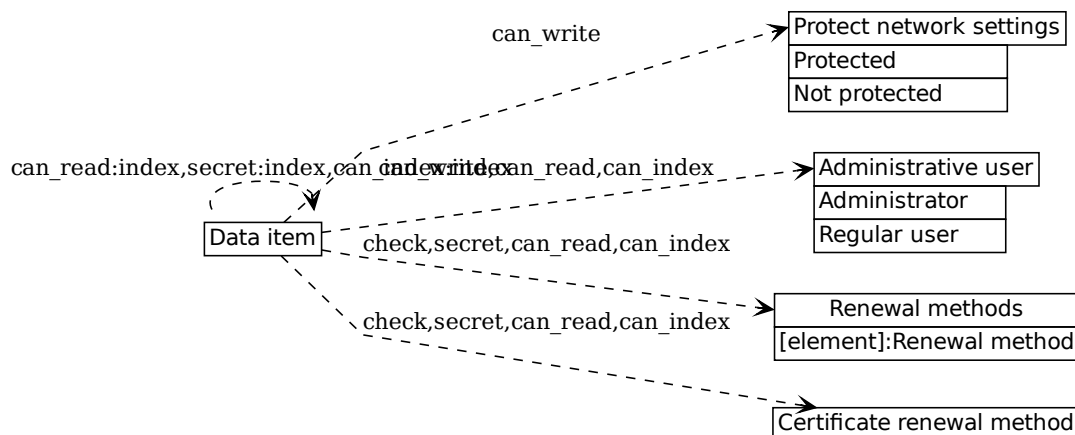
⇒

```
{"days": "7"}
```

[Browse more samples](#)

4.73.1 Data item

string	config/https_cert/renewal_data/S/
Item of renewal-method-specific data	



The value is subject to the following constraints: the value matches `renewal methods[certificate renewal method].data_items[index of the value].regexp`

Retrieving the value is denied if any of the following is true:

- not administrative user
- all of the following is true:
 - index of the value is not equal to ""
 - `renewal methods[certificate renewal method].data_items[index of the value].secret`

Changing the value is denied if any of the following is true:

- not administrative user
- protect network settings

Using the string as a field for indexing into the grandparent collection is denied if any of the following is true:

- not administrative user
- all of the following is true:
 - index of the value is not equal to ""
 - `renewal methods[certificate renewal method].data_items[index of the value].secret`

This string represents a value in persistent storage.

This string should be displayed in a secure manner if all of the following is true:

- index of the value is not equal to ""
- `renewal methods[certificate renewal method].data_items[index of the value].secret`

Sample requests write command (note that `_data_item` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/https_cert/renewal_data/' +   
↔ _data_item + '/', auth=auth, headers=headers, json='669')
```

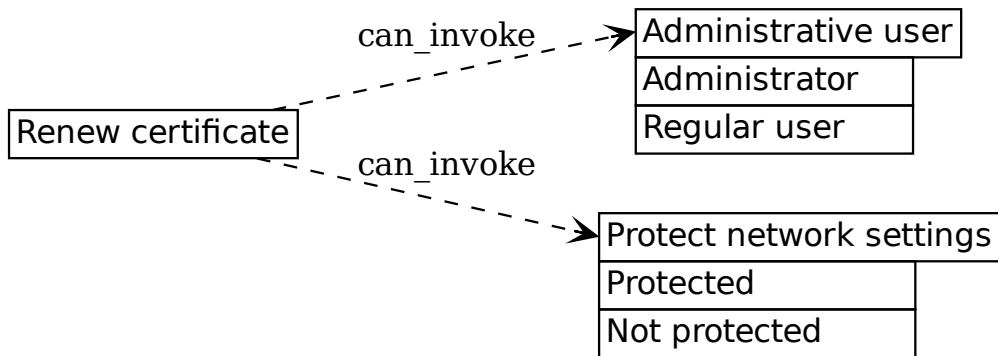
Sample uom library deletion command (note that `_data_item` is a variable):

```
uom.remove(uom.config.https_cert.renewal_data, _data_item)
```

[Browse more samples](#)

4.74 HTTPS certificate settings: Renew certificate

call	config/https_cert/renew_cert/
Initiate attempt to renew the certificate using the selected method	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Empty result: null

Sample JS request invocation:

```
request.post({url:"config/https_cert/renew_cert/",body:[]});
```

⇒

null

Sample CLI invocation:

```
uom invoke "config/https_cert/renew_cert"
```

⇒

null

[Browse more samples](#)

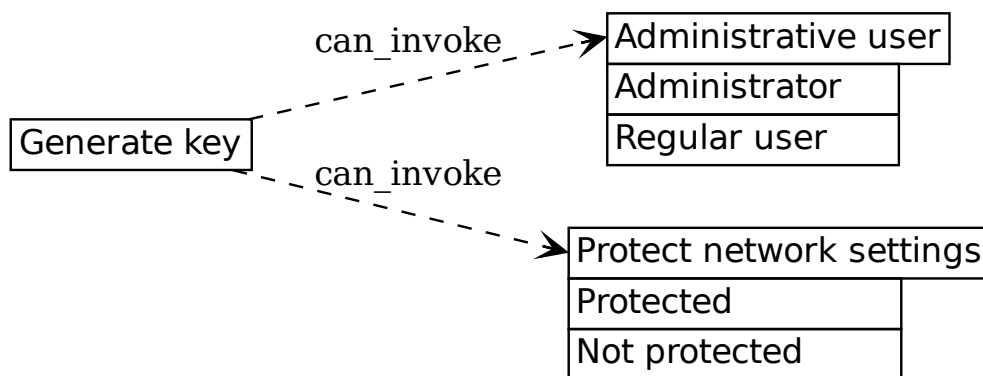
4.74.1 Empty result

constant null	config/https_cert/renew_cert/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

4.75 HTTPS certificate settings: Generate key

call	config/https_cert/generate_key/
Initiate generation of a new private key; certificate renewal will be attempted as a side effect; if that fails, the key is unchanged	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Empty result: null

Sample CLI invocation:

```
uom invoke "config/https_cert/generate_key"
```

⇒

```
null
```

Sample requests invocation:

```
print (requests.post('http://192.168.0.100/restapi/config/https_cert/generate_key'
↔ ↗ /', auth=auth, headers=headers, json={}).json())
```

⇒

```
None
```

[Browse more samples](#)

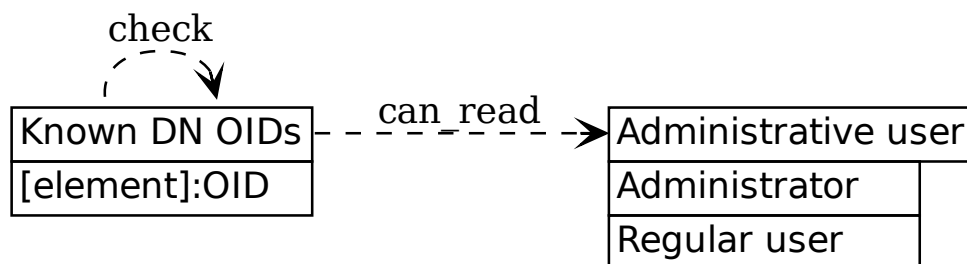
4.75.1 Empty result

constant null	config/https_cert/generate_key/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

4.76 HTTPS certificate settings: Known DN OIDs

map	config/https_cert/known_dn_oids/
Known distinguished name element object identifiers	



Retrieving the value is denied if not [administrative user](#)

This map does not support direct modification.

This map contains [OID](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command:

```
uom get "config/https_cert/known_dn_oids"
```

⇒

Sample requests read command:

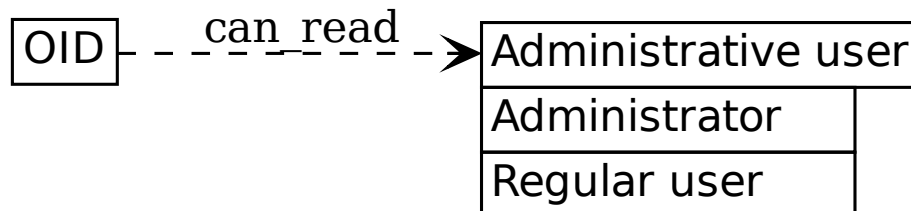
```
print (requests.get ('http://192.168.0.100/restapi/config/https_cert/known_dn_oids ↵
↵ /', auth=auth, headers=headers).json())
```

⇒

[Browse more samples](#)

4.76.1 OID

string	config/https_cert/known_dn_oids/S/
Object identifier value	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

Sample uom library read command (note that `_oid` is a variable):

```
print(uom.dump(uom.config.https_cert.known_dn_oids[_oid]))
```

⇒

```
"2.5.4.43"
```

Sample CLI read command (note that `oid` is a variable):

```
uom get "config/https_cert/known_dn_oids/${oid}"
```

⇒

```
"2.5.4.4"
```

[Browse more samples](#)

4.77 Supported data items: Data item properties

object	config/https_cert/known_renewal_methods/S/data_items/S/
Properties of data item	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

name	Name
regexp	Regular expression
secret	Secret

Sample uom library write command (note that `_renewal_method` and `_data_item_properties` are variables):

```
uom.config.https_cert.known_renewal_methods[_renewal_method].data_items[ ↵
    ↵ _data_item_properties]={name="Number of days to issue new certificates for ↵
    ↵ ", regexp="^[1-9][0-9]*$", secret=false}
```

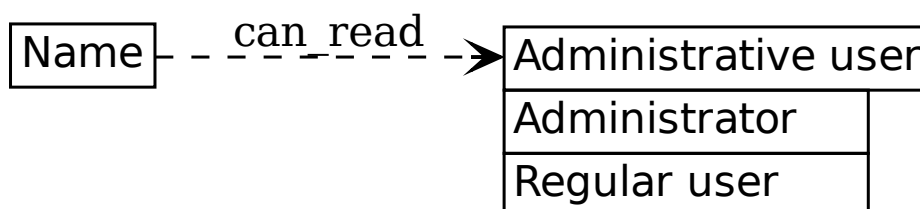
Sample CLI write command (note that `renewal_method` and `data_item_properties` are variables):

```
uom set "config/https_cert/known_renewal_methods/${renewal_method}/data_items/${ ↵
    ↵ data_item_properties}" "{ \"regexp\": \"[ -~]*\", \"name\": \"Password to use ↵
    ↵ for authentication\", \"secret\": true}"
```

[Browse more samples](#)

4.77.1 Name

string	config/https_cert/known_renewal_methods/S/data_items/S/name/
Data item name	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample curl read command (note that `:renewal_method` and `:data_item_properties` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/config/https_cert/known_renewal_methods/:renewal_method/data_items ↵
    ↵ /:data_item_properties/name/"
```


⇒

"EST server base URL (not including .well-known/...; secure transport required)"

Sample requests read command (note that `_renewal_method` and `_data_item_properties` are variables):

```
print(requests.get('http://192.168.0.100/restapi/config/https_cert/ ↵
    ↵ known_renewal_methods/'+_renewal_method+'/data_items/'+ ↵
    ↵ _data_item_properties+'/name/',auth=auth,headers=headers).json())
```

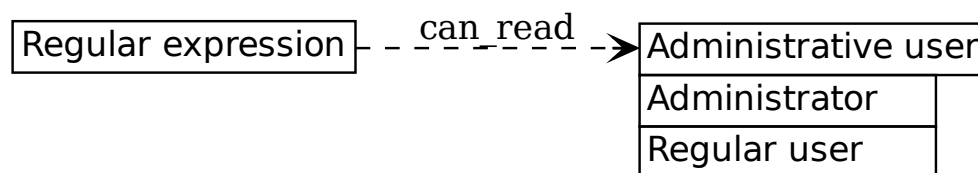
⇒

'Username to authenticate as'

[Browse more samples](#)

4.77.2 Regular expression

string	config/https_cert/known_renewal_methods/S/data_items/S/regexp/
Regular expression which the data item must match	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample CLI read command (note that `renewal_method` and `data_item_properties` are variables):

```
uom get "config/https_cert/known_renewal_methods/${renewal_method}/data_items/${ ↵
    ↵ data_item_properties}/regexp"
```

⇒

"^[1-9][0-9]*\$"

Sample requests read command (note that `_renewal_method` and `_data_item_properties` are variables):

```
print(requests.get('http://192.168.0.100/restapi/config/https_cert/ ↵
    ↵ known_renewal_methods/'+_renewal_method+'/data_items/'+ ↵
    ↵ _data_item_properties+'/regexp/',auth=auth,headers=headers).json())
```

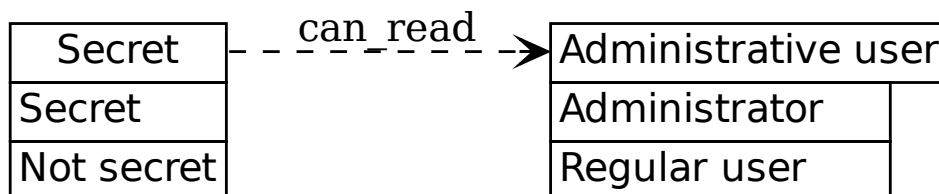
⇒

'^[1-9][0-9]*\$'

[Browse more samples](#)

4.77.3 Secret

sum (boolean)	config/https_cert/known_renewal_methods/S/data_items/S/secret/
Flag indicating whether the data item can contain private information	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Secret	The data item can contain private information
constant false	Not secret	The data item contains only public information

Sample uom library read command (note that `_renewal_method` and `_data_item_properties` are variables):

```
print(uom.dump(uom.config.https_cert.known_renewal_methods[_renewal_method].  
↪ data_items[_data_item_properties].secret))
```

⇒

false

Sample JS request read command (note that `_renewal_method` and `_data_item_properties` are variables):

```
request.get({url:"config/https_cert/known_renewal_methods/"+_renewal_method+"/  
↪ data_items/"+_data_item_properties+"/secret/"},function(error,response,body  
↪ ) {console.log(body)});
```

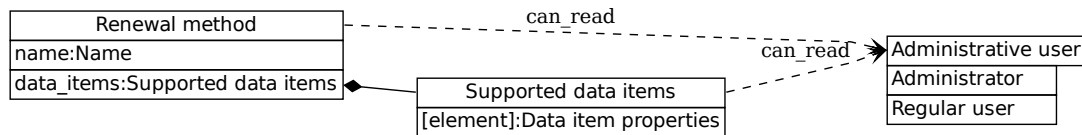
⇒

false

[Browse more samples](#)

4.78 Renewal methods: Renewal method

object	config/https_cert/known_renewal_methods/S/
Method of certificate renewal	



Retrieving the value is denied if not [administrative user](#)

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

name	Name
data_items	Supported data items

Sample JS request write command (note that `_renewal_method` is a variable):

```
request.put({url:"config/https_cert/known_renewal_methods/"+_renewal_method+"/",
  body:{
    "name":"Obtain a certificate via EST (Enrollment over Secure
    Transport)",
    "data_items":{
      "password":{"regexp":"[ -~]*","name":"Password to
      use for authentication","secret":true},
      "username":{"regexp":"[A-Za-z_-][A-
      Za-z0-9_@-]*","name":"Username to authenticate as","secret":false},
      "est_url":{
        "regexp":"^https://([!#&'()*+,-/;=?@[$A-Za-z0-9._~]|(%[0-9A-Fa-f][0-9
        A-Fa-f]))+$","name":"EST server base URL (not including .well-known/...;
        secure transport required)","secret":false},
      "auth":{"regexp":"^(|basic|
        digest)$","name":"HTTP authentication to use","secret":false}}}});
```

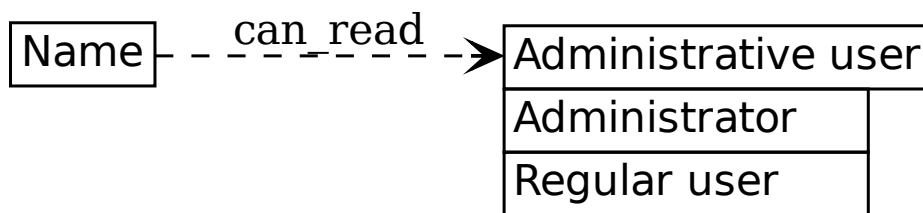
Sample uom library write command (note that `_renewal_method` is a variable):

```
uom.config.https_cert.known_renewal_methods[_renewal_method]={data_items={
  acmev2_agreement={name="ACMEv2 service agreement",regexp="^((|([!#&'()*
  +,-/;=?@[$A-Za-z0-9._~]|(%[0-9A-Fa-f][0-9A-Fa-f]))| )+$",secret=false},
  acmev2_auth_algorithm={name="ACMEv2 authentication algorithm",regexp="^(
  RS256|RS384|RS512|ES256|ES384|ES512)$",secret=false},
  acmev2_contacts={name="ACMEv2 contact URLs, whitespace-separated",
    regexp="^((|([!#&'()*+,-/;=?@[$A-Za-z0-9._~]|(%[0-9A-Fa-f][0-9A-Fa-f]))| )+$",
    secret=false},
  acmev2_url={name="ACMEv2 directory endpoint URL",
    regexp="^https?:/([!#&'()*+,-/;=?@[$A-Za-z0-9._~]|(%[0-9A-Fa-f][0-9A-Fa-f]))+$",
    secret=false},
  name="Obtain a certificate from an ACME v2 endpoint (e.g. Let's Encrypt)"}
```

[Browse more samples](#)

4.78.1 Name

string	config/https_cert/known_renewal_methods/S/name/
Renewal method name	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample `requests` read command (note that `_renewal_method` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/config/https_cert/ ↵
    ↵ known_renewal_methods/' + _renewal_method + '/name/', auth=auth, headers=headers) ↵
    ↵ .json())
```

⇒

```
'Obtain a certificate from an ACME v2 endpoint (e.g. Let's Encrypt)'
```

Sample `uom` library read command (note that `_renewal_method` is a variable):

```
print(uom.dump(uom.config.https_cert.known_renewal_methods[_renewal_method].name) ↵
    ↵ )
```

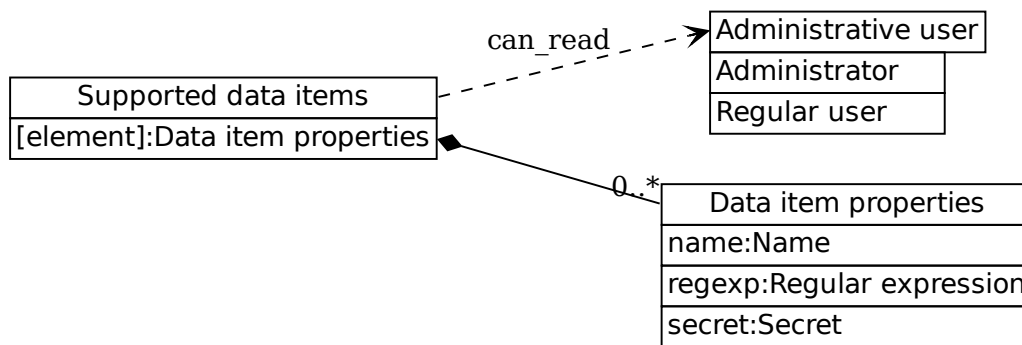
⇒

```
"Obtain a certificate from an ACME v1 endpoint (e.g. Let's Encrypt)"
```

[Browse more samples](#)

4.78.2 Supported data items

map	config/https_cert/known_renewal_methods/S/data_items/
Properties of supported data items	



Retrieving the value is denied if not [administrative user](#)

This map is a part of a composite value which is modified as a whole.

This map does not support direct modification.

This map contains [Data item properties](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command (note that `renewal_method` is a variable):

```
uom get "config/https_cert/known_renewal_methods/${renewal_method}/data_items"
```

⇒

Sample `curl` read command (note that `:renewal_method` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/https_cert/known_renewal_methods/:renewal_method/data_items ↵
↵ /" ↵
```

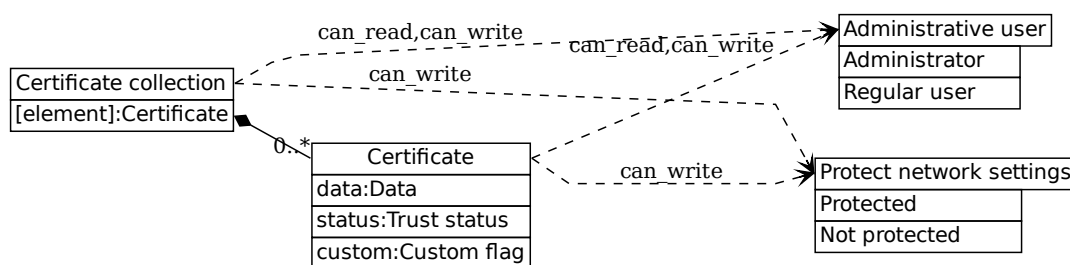
⇒

[Browse more samples](#)

See also [Supported data items: Data item properties](#)

4.79 Certificate collection

map	config/certificates/
Map of known certificates and their settings	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This map represents a value in persistent storage.

Changes to this map do not take effect immediately.

This map contains [Certificate](#) elements.

Sample `uom` library read command:

```
print(uom.dump(uom.config.certificates))
```

⇒

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/config/certificates/', auth=auth, ↵
↵ headers=headers).json())
```

⇒

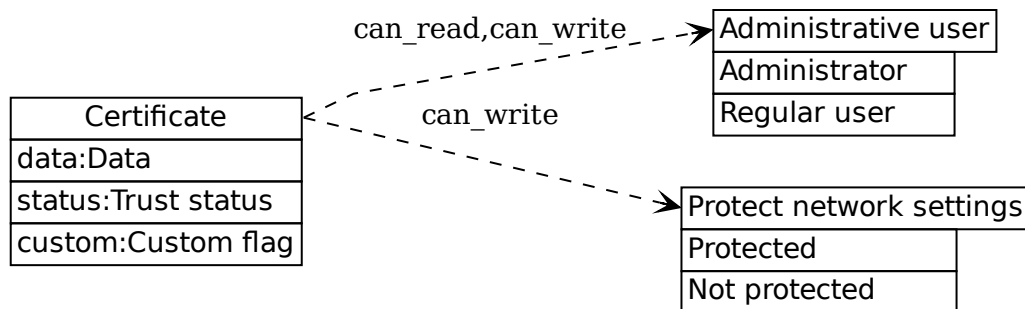
```
{ }
```

[Browse more samples](#)

See also [Certificate collection: Certificate](#)

4.80 Certificate collection: Certificate

object	config/certificates/S/
Certificate settings	



The value is subject to the following constraints: index of the value matches $^{\wedge}[\wedge./][\wedge./]*\$$

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This object represents a value in persistent storage.

Changes to this object do not take effect immediately.

This object contains the following items:

data	Data
status	Trust status
custom	Custom flag

Sample JS request read command (note that `_certificate` is a variable):

```
request.get({url:"config/certificates/"+_certificate+"/"},function(error,response ↵
  ↵ ,body) {console.log(body)});
```

⇒

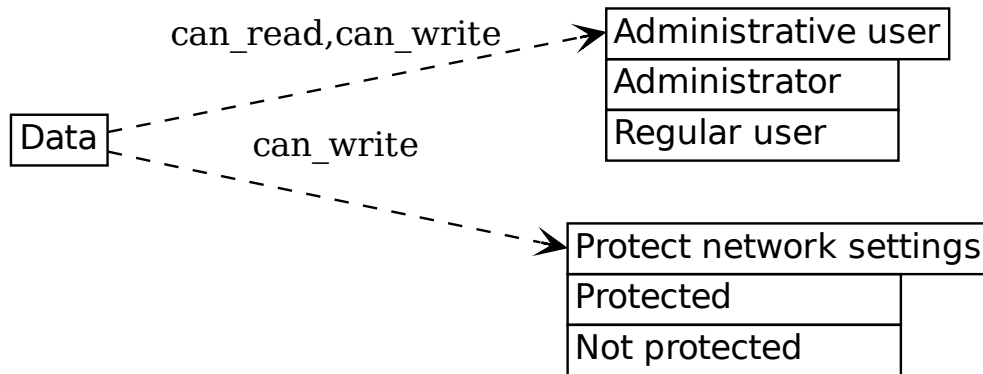
Sample uom library write command (note that `_certificate` is a variable):

```
uom.config.certificates[_certificate]={data="-----BEGIN CERTIFICATE-----\
MII8WLFyAuxR0RMz7hVeqX0L08+nzJlmc9pHSDxhxuSSmJYdfk+r97BCTPDb5cL\
KRJuJn+W8tIQZsWfROOdYIFeh5VauH4U/10jvokbmZNX+4F9Xm6zKcm2GsVICUx5\
bI7Oxjkc/LN=\
-----END CERTIFICATE-----\
",status=false}
```

[Browse more samples](#)

4.80.1 Data

string	config/certificates/S/data/
Certificate data	



The value contains PEM format data (has native MIME type `application/x-pem-file`).

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample CLI read command (note that `certificate` is a variable):

```
uom get "config/certificates/${certificate}/data"
```

⇒

```
"-----BEGIN CERTIFICATE-----\n
  ↪ nMIiWI2j3CztQsGMvnjUKE2RQAFw2LpsaDUqudfmUzQUdIcWuCE81XPEY95V5x5Cm\
  ↪ nE4i1K1YPLDgobg/n2uwLB29bsT3klbJJGZL9AT1IdR0D57jV9KNJfy1LRQqUiD9K\
  ↪ n5vifvYIRjy/xC60tAk9tBuyvpS7iykUfk8uHE4/UAV8pLxn0laJQpoM=\n-----END
  ↪ CERTIFICATE-----\n"
```

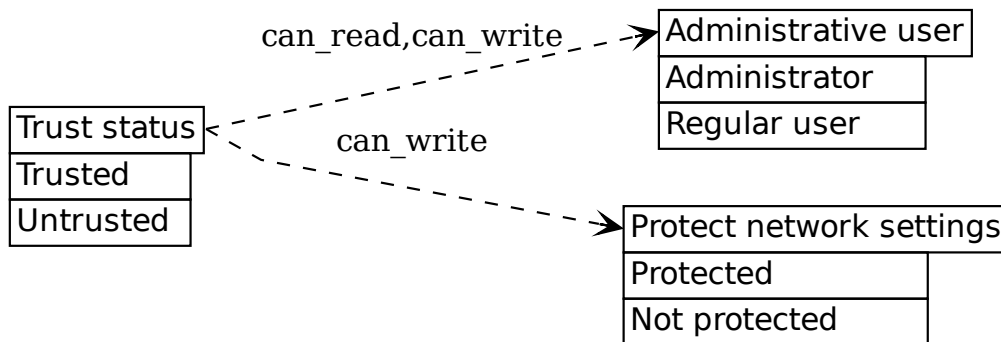
Sample requests write command (note that `_certificate` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/certificates/'+_certificate+'/'
  ↪ data/', auth=auth, headers=headers, json='-----BEGIN CERTIFICATE-----\n
  ↪ nMIItW6tuF4czCvBlHG66UT4czNXBapqJS9S3dF1yT05QeLaolJxPZJLTsFOSSThk\n9/
  ↪ ouWvnR4k06bRnvi jZWYuaR65rBsfJ+wKFNYcP5/HkZIpTTpnb2Uv8sYmeZD502\nGaRl6xs5G/
  ↪ QkybWU10P+MsI7YkLJTi9xOGXmqrzPXDxr23YSx3y1i7MXqxKXPg5Y\
  ↪ npaA5FS3KBNn92mF0dEMCK5cg5lSdN1ZoXCbIHhtg4kSmutCnNEVVJfjWGDQ3q2pe\
  ↪ nqyg8KcnWIZKfycNxEym0tKnwf9YpXMz3nqmXH0sIJ4Zv3LVMzcjwUisf23IKQnwb\n1CYD/
  ↪ U0xOn/D+VDEZpPSwJhDkwtYPyJm6AzFgOP5irY8dM2IVhfZBiG==\n-----END CERTIFICATE
  ↪ -----\n')
```

[Browse more samples](#)

4.80.2 Trust status

sum (boolean)	config/certificates/S/status/
Whether the certificate is trusted by default	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Trusted	The certificate is trusted by all software with default settings
constant false	Untrusted	The certificate is not trusted by all software with default settings

Sample uom library read command (note that `_certificate` is a variable):

```
print(uom.dump(uom.config.certificates[_certificate].status))
```

⇒

```
true
```

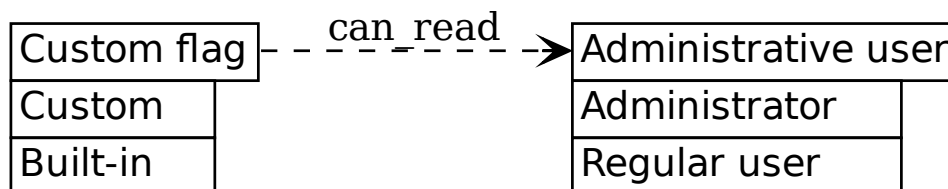
Sample curl write command (note that `:certificate` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "false" "http ↵
↵ ://192.168.0.100/restapi/config/certificates/:certificate/status/"
```

[Browse more samples](#)

4.80.3 Custom flag

sum (boolean)	config/certificates/S/custom/
Flag indicating whether the certificate is custom	



The value is unconditionally set to `true` on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Custom	The certificate has no match in the current factory firmware (it could be left over from a previous version)
constant false	Built-in	The certificate is present in the current factory firmware

Sample `uom` library read command (note that `_certificate` is a variable):

```
print(uom.dump(uom.config.certificates[_certificate].custom))
```

⇒

```
true
```

Sample `requests` read command (note that `_certificate` is a variable):

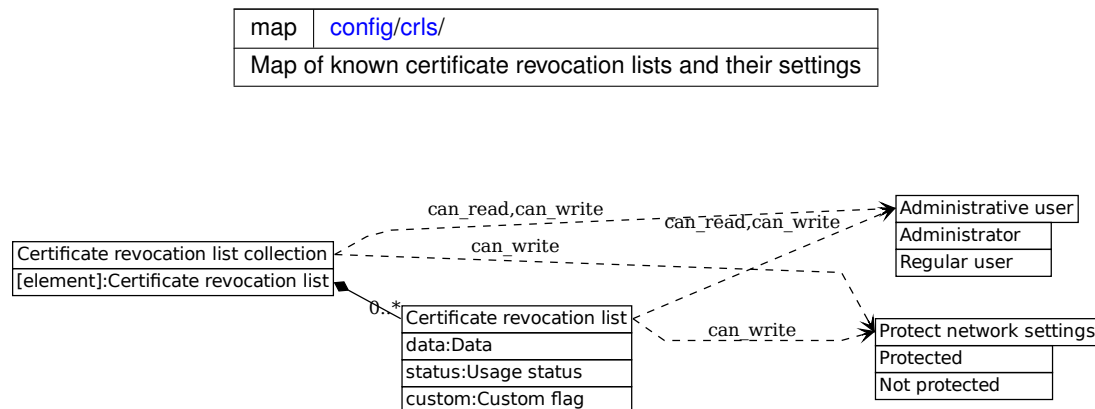
```
print(requests.get('http://192.168.0.100/restapi/config/certificates/'+ ↵
↵ _certificate+'/custom/', auth=auth, headers=headers).json())
```

⇒

```
False
```

[Browse more samples](#)

4.81 Certificate revocation list collection



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This map represents a value in persistent storage.

Changes to this map do not take effect immediately.

This map contains [Certificate revocation list](#) elements.

Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/config/crls/', auth=auth, headers= ↵
    ↵ headers, json={'eGuardBazCare_Trusted_CA_8': {'status': True, 'data': '----- ↵
    ↵ BEGIN X509 CRL-----\nMII88Qns2KhJ3nYLJIBLCPQ// ↵
    ↵ pu0LwLjbRjAGqXTxuUIC9y0eTit5Rllum57z6wi\ ↵
    ↵ nrw08s9g4Ia500jndKkQk54lMRgUHC4IWRoEPvVSydAf++PoxVcprSDd0m2ofCJuk\ ↵
    ↵ nKiZJHn3Ib0tPWjDmQ3N79p8C19Y9l0ArZli8fgfgVIHDibsSkBcI226KOjw==\n-----END ↵
    ↵ X509 CRL-----\n', 'custom': True}, 'eVeriFooCare_Root_CA_5': {'status': ↵
    ↵ False, 'data': '-----BEGIN X509 CRL-----\ ↵
    ↵ nMIIWGgLh0wUrozoBRJf5poWh4XWUC7gErFgn4t5CH65HyTSM9+rt1303pPBz744U\ ↵
    ↵ nxZPTUfSLp9Nt3TXoF2j1SSxyfjorKxYYeRJP+Bd9VPNGFh5JVjIIFkS07DRmJ3YA\ ↵
    ↵ nh07zPx8IKYBl7HJ7BvgipP4TktU2fflBYwStfjJY5W7Z1BbvAVbKHMnBiTOQyH/e\nP93/ ↵
    ↵ iNN03qy4jRMFhfmOw20iUhgOKYe4yQlmSjWl86G3C5sKbqBD3MDrPD2/GIro\nG2au3bxSzsNd5 ↵
    ↵ /HdgbKLvkoMcfHpXDR4pQerZ2ZSzhdyGOFdLxRKf5M69Qv78QhO\ ↵
    ↵ nIewxh7fbGYMrVVn1iGX909fgqxv7fLawM8dYGMTUfHy00TZC25kFdRIusinJ3QH\n65/ ↵
    ↵ vhzUhnz4WEjKLLQQGnj70iJV==\n-----END X509 CRL-----\n'})})
```

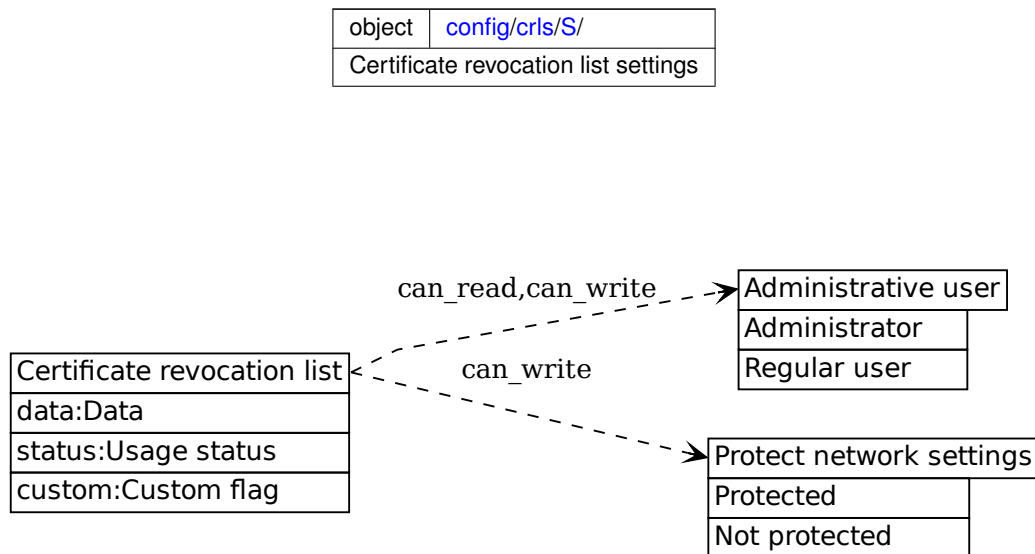
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
    ↵ json" -H "Accept: application/json" --data-binary "..." "http ↵
    ↵ ://192.168.0.100/restapi/config/crls/"
```

[Browse more samples](#)

See also [Certificate revocation list collection: Certificate revocation list](#)

4.82 Certificate revocation list collection: Certificate revocation list



The value is subject to the following constraints: index of the value matches `^[^./][^/]*$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This object represents a value in persistent storage.

Changes to this object do not take effect immediately.

This object contains the following items:

data	Data
status	Usage status
custom	Custom flag

Sample CLI write command (note that `certificate_revocation_list` is a variable):

```

uom set "config/crls/${certificate_revocation_list}" "{ \"status\":false, \"data ↵
↵ \"\": \"-----BEGIN X509 CRL-----\\ ↵
↵ nMIIfNKB4iecipj3jaUyMyvdMSVGOPcxOkrlztoJJVcMveskAw0Brnq7S6WeajNEF\\ ↵
↵ nKvPopRpwIbiOcnogNjocc5aNN4G2wpSwua/cctinsS6D/sLCV4YkNVdi4hhagsYu\\ ↵
↵ nMHF5YrE872GHPs6xXZQSIruDpm0nBUCisw+wH2AKOqZUrpK4GbaWH2EjgPtevvzM\\ ↵
↵ n2zyYxOD6j/C312oi6jNtvo2WqWHYqexWsmPLurAJdbUy7Z0xvLsvWOPDeJcFIVAn\\ ↵
↵ niP8jwXKhKgbIHrmV1XZti7PyqWzU/jIo1lnJ08b0u+heM1/g8XzItJk4Yh17tHBp\\ ↵
↵ nlosZSQIzY07OCH3R4mP+Edm8b4KHtmyTuVbUaKLn6lqCzitp/raMUyoIpKQzAQ6z\\ ↵
↵ n0fveaSFDbTNMx4WFLtVqHdoKs jbw7x4bh5wI3luUXNpAwVXIba7xC+wQm5BTCTgk\\ ↵
↵ n5fhMXZaoyMCctUqQoP6P2IYV0FBbMMk9u8JHDZdW+H5SXmAVFA==\\n-----END X509 CRL ↵
↵ -----\\n\\", \"custom\":true}"
  
```

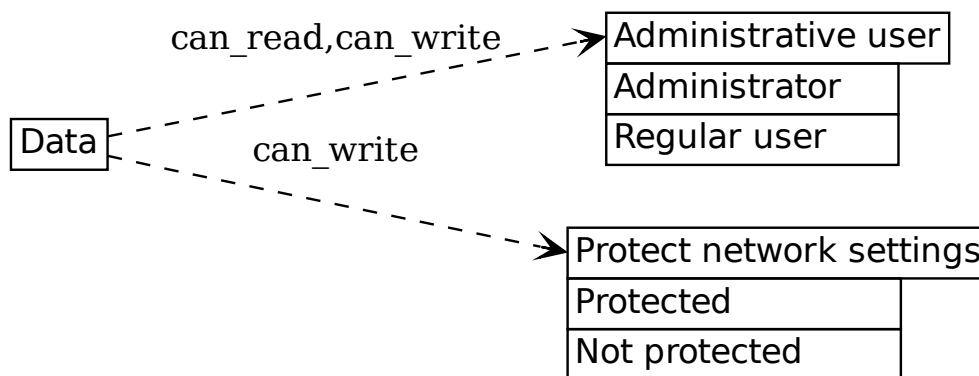
Sample uom library write command (note that `_certificate_revocation_list` is a variable):

```
uom.config.crls[_certificate_revocation_list]={data="-----BEGIN X509 CRL-----\
MIIB8qjhaG/VswTJM39QKa9XGEevg925QItMDHqiSeRzhq1Q54nsnape6nl+cNW\
6e7ISVVyyCJ1qnRM/U4cPNyOkRqUiHvVJpV3+Oke4BW6jC4aL8+oSwhRni2emcCW\
HKFCHUvNEihOTyBIO9arLmtBAk3hfbRdaCm5UrT4cqEeegwt1UbbIn\
-----END X509 CRL-----\
",status=true}
```

[Browse more samples](#)

4.82.1 Data

string	config/crls/S/data/
CRL data	



The value contains PEM format data (has native MIME type `application/x-pem-file`).

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample curl write command (note that `:certificate_revocation_list` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"-----BEGIN X509 CRL ↵
↵ -----\\nMIIB8qjhaG/VswTJM39QKa9XGEevg925QItMDHqiSeRzhq1Q54nsnape6nl+cNW ↵
↵ niWLLv201rc0lZ0cujuNBCF1vf/gfIJ4k7Ir1BwwQNAqnGg2yZK8tNvFTRAFHhB0\\ ↵
↵ nvT5Gt1liqGxYLUb+g2A8yxtvplU35bFEr=\\n-----END X509 CRL-----\\n\" \"http ↵
↵ ://192.168.0.100/restapi/config/crls/:certificate_revocation_list/data/"
```

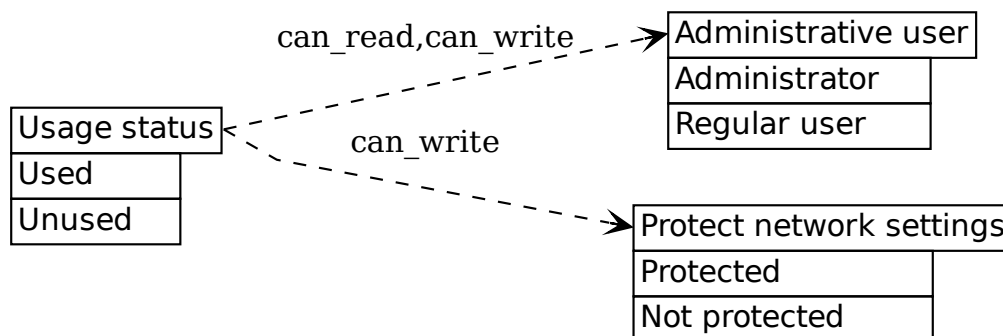
Sample uom library write command (note that `_certificate_revocation_list` is a variable):

```
uom.config.crls[_certificate_revocation_list].data="-----BEGIN X509 CRL-----\
MIIfT5Kel5XqjZYLW8YI6yvpJLiu3UPJcp/1s4uNPiLecSszkwUTv/W8eK8nfldu\
56rSqWU/p69Hm/GT2G56Vs8L83QfwylRSeTR8VFFnPMSjkNv90CefLrZri+7BFFT\
M6Kh06R1VWThFfpHHthmlmBy4ELMmSU71aOt0bv94CcP/AWbzMRtUohrqObSaYHb\
bD+GG2/4tj1Y+wHGa8U2hB+IquHkvLoA5oAytq/IcZ+dI20VXZnihW2sUIJBKCGc\
Pbc9nDS74eISH4GW1XmFOgwQ=\
-----END X509 CRL-----\
"
```

[Browse more samples](#)

4.82.2 Usage status

sum (boolean)	config/crls/S/status/
Whether the certificate revocation list is used by default	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Used	The certificate revocation list is used by all software with default settings
constant false	Unused	The certificate revocation list is not used by all software with default settings

Sample JS request read command (note that `_certificate_revocation_list` is a variable):

```
request.get({url:"config/crls/"+_certificate_revocation_list+"/status/"},function ←
    ↪ (error,response,body) {console.log(body)});
```

⇒

true

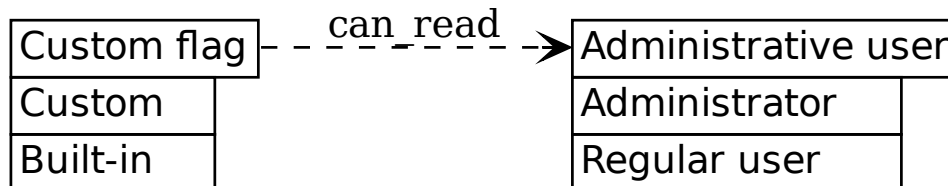
Sample requests write command (note that `_certificate_revocation_list` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/crls/'+ ←
    ↪ _certificate_revocation_list+'/status/',auth=auth,headers=headers,json=True ←
    ↪ )
```

[Browse more samples](#)

4.82.3 Custom flag

sum (boolean)	config/crls/S/custom/
Flag indicating whether the certificate revocation list is custom	



The value is unconditionally set to `true` on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Custom	The certificate revocation list has no match in the current factory firmware (it could be left over from a p
constant false	Built-in	The certificate revocation list is present in the current factory firmware

Sample uom library read command (note that `_certificate_revocation_list` is a variable):

```
print(uom.dump(uom.config.crls[_certificate_revocation_list].custom))
```

⇒

false

Sample JS request read command (note that `_certificate_revocation_list` is a variable):

```
request.get({url:"config/crls/"+_certificate_revocation_list+"/custom/"},function ←
  ↪ (error,response,body) {console.log(body)});
```

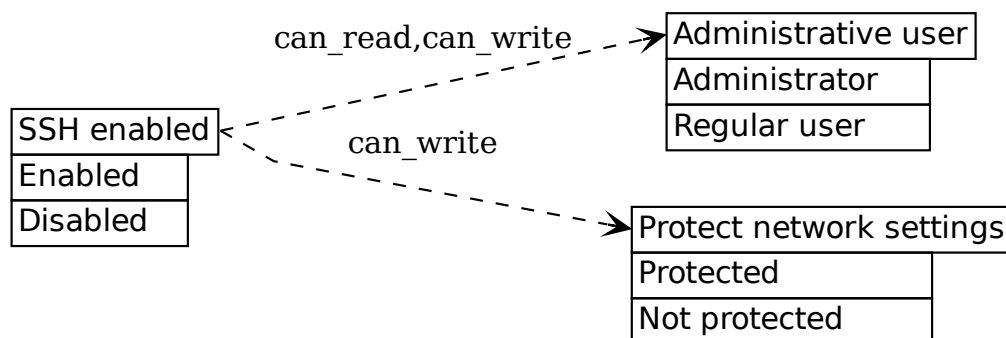
⇒

false

[Browse more samples](#)

4.83 SSH enabled

sum (boolean)	config/ssh_enabled/
Whether the SSH server should be enabled	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample requests read command:

```
print (requests.get ('http://192.168.0.100/restapi/config/ssh_enabled/', auth=auth, ↵
↵ headers=headers).json())
```

⇒

True

Sample uom library read command:

```
print (uom.dump (uom.config.ssh_enabled))
```

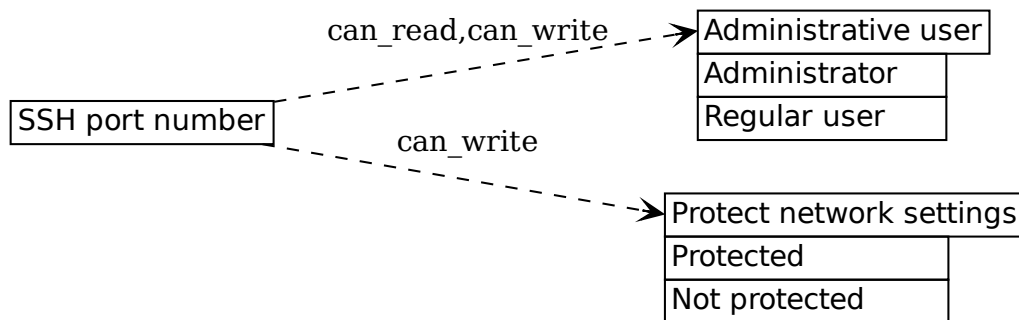
⇒

true

[Browse more samples](#)

4.84 SSH port number

number	config/ssh_port/
Port number of the SSH server	



The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0
- [the value](#) is less than 65535

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This number represents a value in persistent storage.

Changes to this number do not take effect immediately.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↔
↔ restapi/config/ssh_port/"
```

⇒

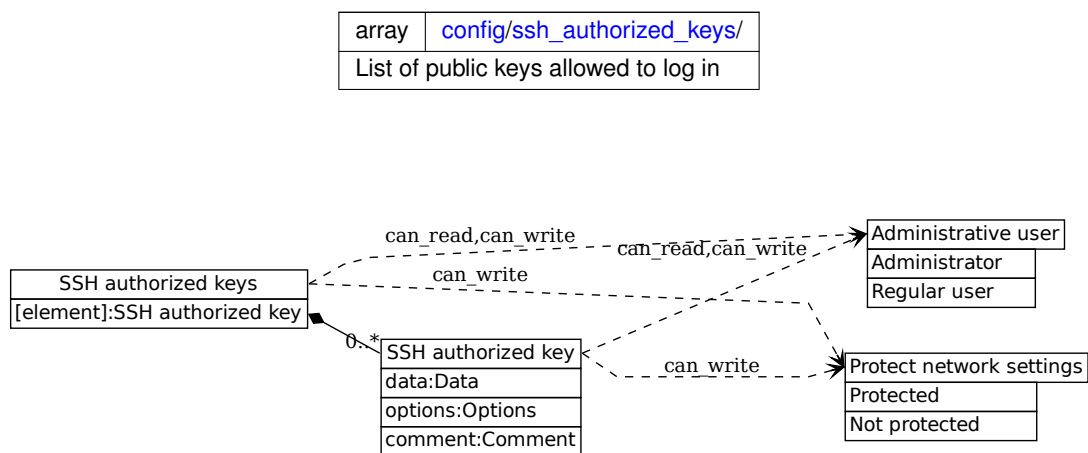
8022

Sample CLI write command:

```
uom set "config/ssh_port" "2222"
```

[Browse more samples](#)

4.85 SSH authorized keys



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

Changes to this array do not take effect immediately.

This array contains [SSH authorized key](#) elements.

Sample JS `request` write command:

```
request.put({url:"config/ssh_authorized_keys/",body:[{"data":"ssh-ed25519 D", "
↪ options":"","comment":""}, {"data":"ssh-rsa QlKMhZL5===", "options":"u,m=660,
↪ ix=963, fm=766, ke", "comment":"qxn"}, {"data":"ssh-dss +kPF===", "options":"","
↪ comment":""}]}]);
```

Sample uom library read command:

```
print(uom.dump(uom.config.ssh_authorized_keys))
```

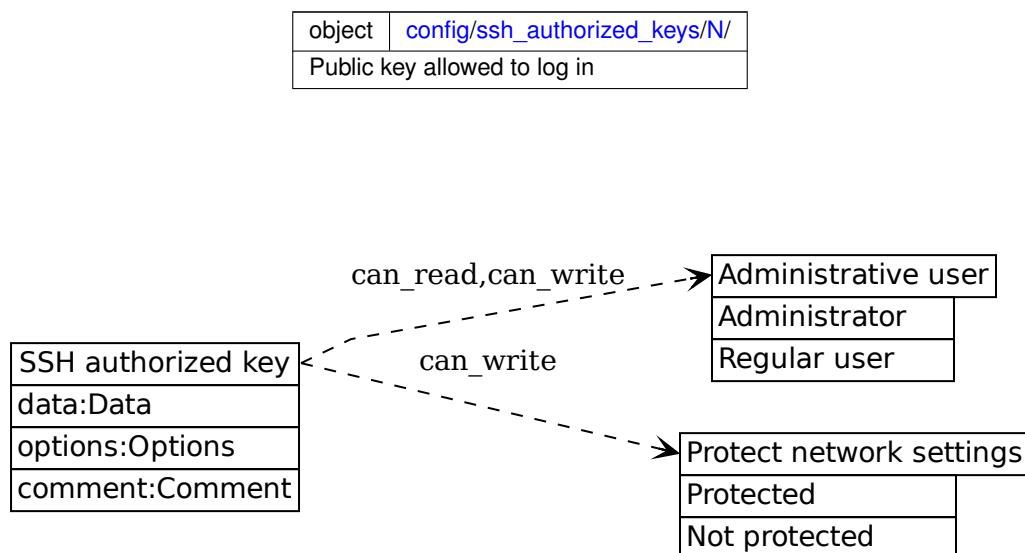
⇒

```
{{comment="",data="ecdsa-sha2-nistp384 tAgM=",options=""},{comment="",data="ssh-
↪ rsa odcZ==",options="pho=44,uppzqsmoan=933024610,myc=v,m"}}
```

[Browse more samples](#)

See also [SSH authorized keys: SSH authorized key](#)

4.86 SSH authorized keys: SSH authorized key



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This object is a part of a composite value which is modified as a whole.

This object represents a value in persistent storage.

Changes to this object do not take effect immediately.

This object contains the following items:

data	Data
options	Options
comment	Comment

Sample JS request deletion command (note that `_ssh_authorized_key_index` is a variable):

```
request.delete({url:"config/ssh_authorized_keys/"+_ssh_authorized_key_index.
  ↳ toString()+"/"});
```

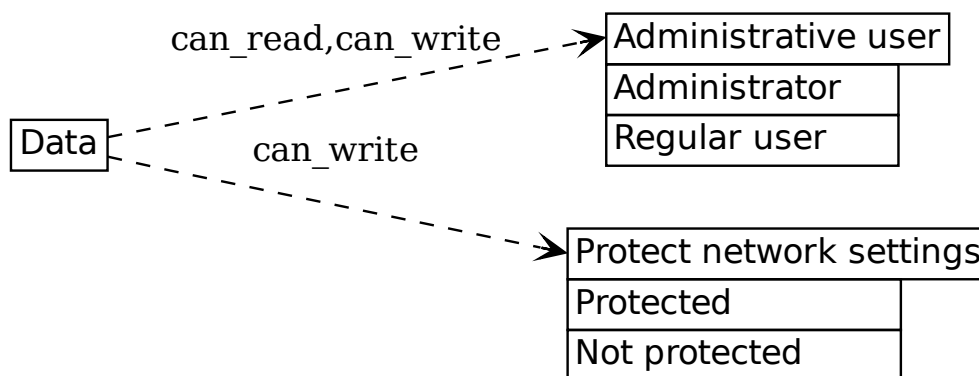
Sample CLI write command (note that `ssh_authorized_key_index` is a variable):

```
uom set "config/ssh_authorized_keys/${ssh_authorized_key_index}" "{ \"data\": \"
  ↳ ecdsa-sha2-nistp256 e==\", \"options\": \"\", \"comment\": \"\" }"
```

[Browse more samples](#)

4.86.1 Data

string	config/ssh_authorized_keys/N/data/
Public key data	



The value is subject to the following constraints: [the value](#) matches `^(([0-9])+ *([0-9])+ *([0-9])|(ecdsa-sha2-nistp256|ecdsa-sha2-nistp384|ecdsa-sha2-nistp521|ssh-ed25519|ssh-dss|ssh-rsa) *([0-9A-Za-z+/+=]{0,3})))$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample CLI read command (note that `ssh_authorized_key_index` is a variable):

```
uom get "config/ssh_authorized_keys/${ssh_authorized_key_index}/data"
```

⇒

```
"ssh-ed25519 C==="
```

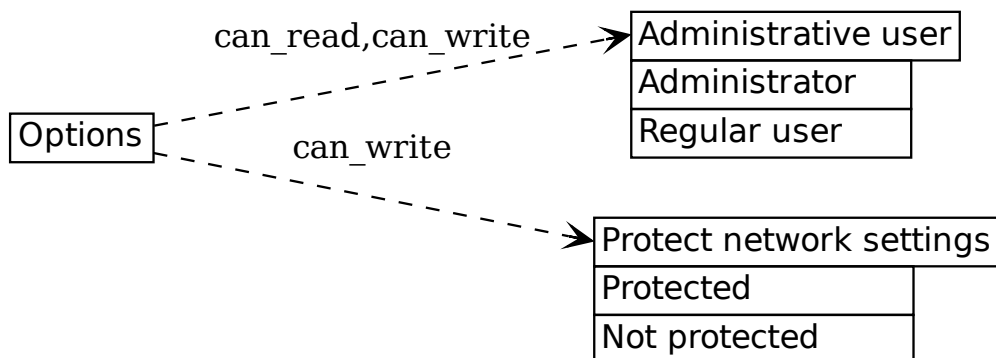
Sample CLI write command (note that `ssh_authorized_key_index` is a variable):

```
uom set "config/ssh_authorized_keys/${ssh_authorized_key_index}/data" "\"ssh- ↵
↵ ed25519 N===\""
```

[Browse more samples](#)

4.86.2 Options

string	config/ssh_authorized_keys/N/options/
Public key options	



The value is subject to the following constraints: [the value](#) matches `^([\^ "]+|"[^"]*"*)*$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample `curl` read command (note that `:ssh_authorized_key_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/ssh_authorized_keys/:ssh_authorized_key_index/options/"
```

⇒

```
"r=8,di=eopyay,tpn,yijbow,eazhvhs=knt"
```

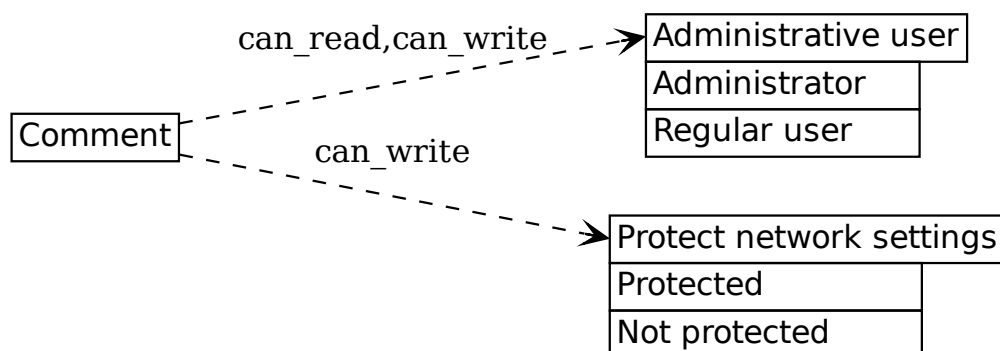
Sample `curl` write command (note that `:ssh_authorized_key_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"pq=44851\""" "http ↵
↵ ://192.168.0.100/restapi/config/ssh_authorized_keys/: ↵
↵ ssh_authorized_key_index/options/"
```

[Browse more samples](#)

4.86.3 Comment

string	config/ssh_authorized_keys/N/comment/
Public key comment	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)

- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample CLI write command (note that `ssh_authorized_key_index` is a variable):

```
uom set "config/ssh_authorized_keys/${ssh_authorized_key_index}/comment" "\"u.x. ↵
↵ etbg\""
```

Sample CLI read command (note that `ssh_authorized_key_index` is a variable):

```
uom get "config/ssh_authorized_keys/${ssh_authorized_key_index}/comment"
```

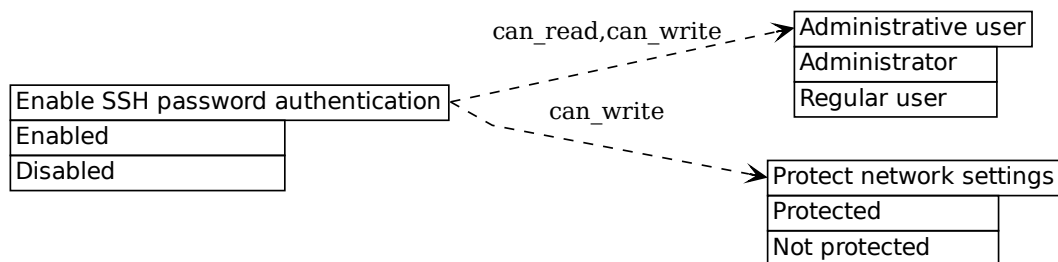
⇒

"a"

[Browse more samples](#)

4.87 Enable SSH password authentication

sum (boolean)	config/ssh_password_auth_enabled/
Whether the SSH password authentication should be enabled	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample uom library write command:

```
uom.config.ssh_password_auth_enabled=true
```

Sample CLI read command:

```
uom get "config/ssh_password_auth_enabled"
```

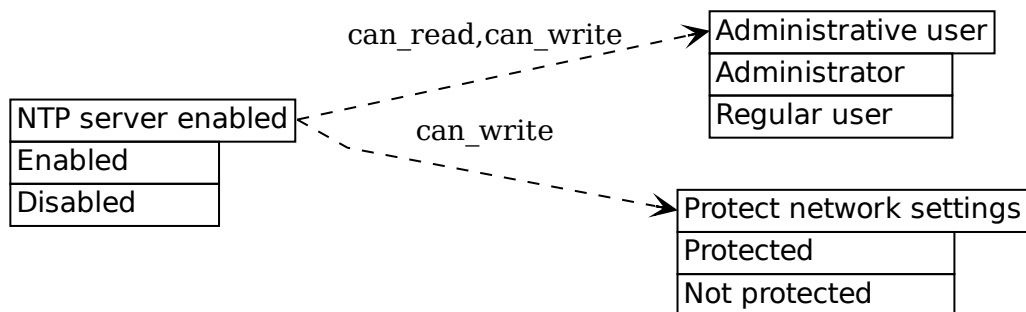
⇒

false

[Browse more samples](#)

4.88 NTP server enabled

sum (boolean)	config/ntp_server_enabled/
Whether the device should act as NTP server	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/config/ntp_server_enabled/', auth=auth, ↵
↳ headers=headers, json=False)
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↳ restapi/config/ntp_server_enabled/"
```

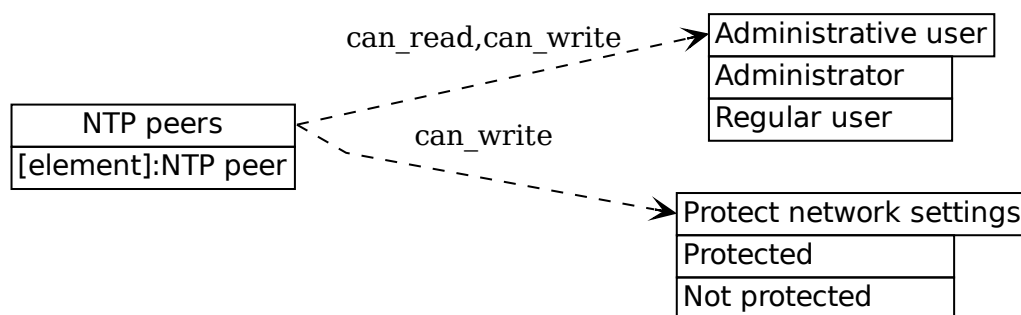
⇒

false

[Browse more samples](#)

4.89 NTP peers

array	config/ntp_peers/
List of NTP servers to get time information from	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

Changes to this array do not take effect immediately.

This array contains [NTP peer](#) elements.

Sample JS `request` NTP peer creation command:

```
request.post ({url:"config/ntp_peers/",body:"3.ntp-pool.example.com"});
```

Sample JS request read command:

```
request.get ({url:"config/ntp_peers/"},function(error,response,body) {console.log(↵↵ body) });
```

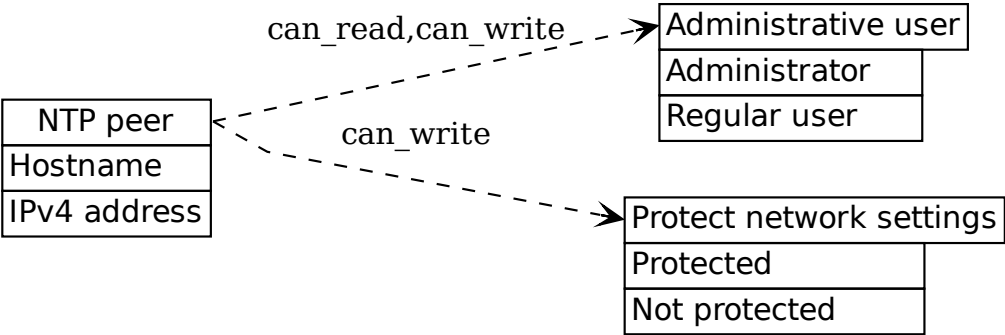
⇒

```
["0.ntp-pool.example.com","1.ntp-pool.example.com","2.ntp-pool.example.com","3.↵↵ ntp-pool.example.com"]
```

Browse more samples

4.89.1 NTP peer

sum (string)	config/ntp_peers/N/
NTP server to get time information from	



Retrieving the value is denied if not administrative user

Changing the value is denied if any of the following is true:

- not administrative user
- protect network settings

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

string	Hostname	Hostname	the value matches ^(([a-zA-Z0-9] [a-zA-Z0-9][a-zA-Z0-9-]*[a-zA-Z0-9]).)*([A-Za-z]([A-Za-z0-9-]*[A-Za-z0-9])? [A-Za-z0-9]([A-Za-z0-9-]*[A-Za-z]([A-Za-z0-9-]*[A-Za-z0-9])?))\$
string	IPv4 address	IPv4 address in dotted quad notation	the value matches ^(([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5]).){3}([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5])\$

Sample uom library read command (note that `_ntp_peer_index` is a variable):

```
print(uom.dump(uom.config.ntp_peers[_ntp_peer_index]))
```

⇒

```
"0.ntp-pool.example.com"
```

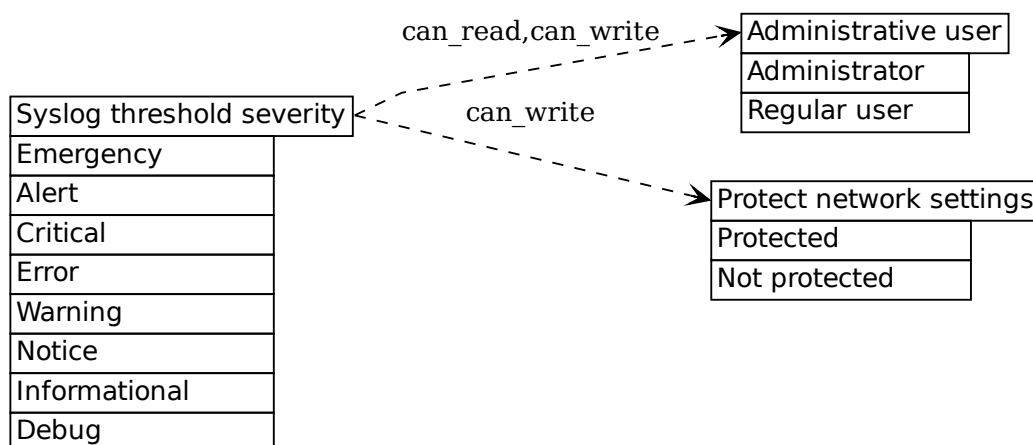
Sample curl write command (note that `:ntp_peer_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"2.ntp-pool.example.com ↵
↵ \" \"http://192.168.0.100/restapi/config/ntp_peers/:ntp_peer_index/\""
```

[Browse more samples](#)

4.90 Syslog threshold severity

sum (enumerated number)	config/syslog_minimal_severity/
Threshold severity for system messages, below which they are not logged	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant 1	Emergency	Log when unit becomes unstable or unusable
constant 2	Alert	Log conditions requiring immediate action
constant 3	Critical	Log critical conditions
constant 4	Error	Log error conditions
constant 5	Warning	Log warning conditions
constant 6	Notice	Log normal but significant conditions
constant 7	Informational	Log informational messages
constant 8	Debug	Log tracing and debugging messages

Sample uom library read command:

```
print(uom.dump(uom.config.syslog_minimal_severity))
```

⇒

8

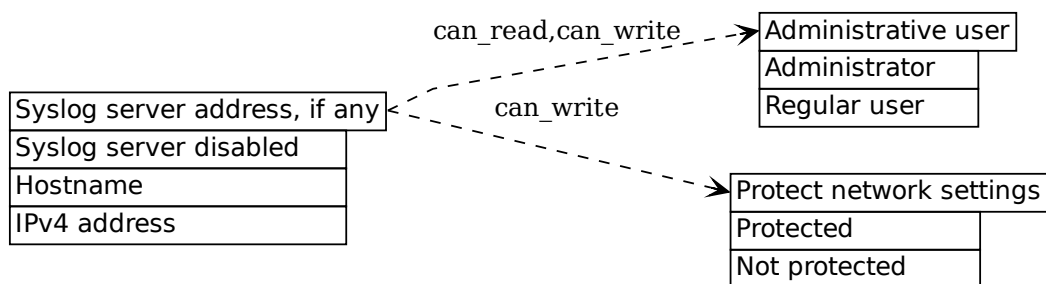
Sample JS request write command:

```
request.put({url:"config/syslog_minimal_severity/",body:8});
```

[Browse more samples](#)

4.91 Syslog server address, if any

sum (optional string)	config/syslog_ip_address/
Host name or IPv4 address of the syslog server to forward log messages to, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant null	Syslog server disabled	System log messages are not forwarded to a server	
string	Hostname	Hostname	the value matches <code>^([a-zA-Z0-9] [a-zA-Z0-9][a-zA-Z0-9-]*[a-zA-Z0-9]).)*([A-Za-z]([A-Za-z0-9-]*[A-Za-z0-9])? [A-Za-z0-9][A-Za-z0-9-]*[A-Za-z]([A-Za-z0-9-]*[A-Za-z0-9])?)\$</code>
string	IPv4 address	IPv4 address in dotted quad notation	the value matches <code>^([0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5]).){3}([0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5])\$</code>

Sample JS request read command:

```
request.get({url:"config/syslog_ip_address/"},function(error,response,body) {
  ↪ console.log(body) });
```

⇒

null

Sample CLI read command:

```
uom get "config/syslog_ip_address"
```

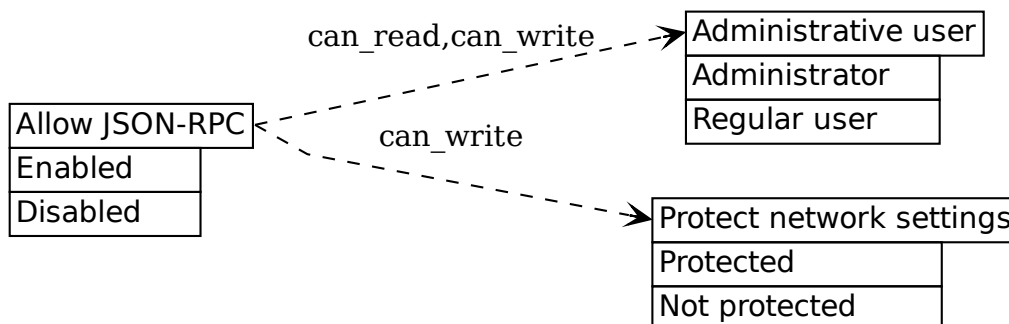
⇒

null

[Browse more samples](#)

4.92 Allow JSON-RPC

sum (boolean)	config/allow_jsonrpc/
Enable HTTP clients to perform JSON-RPC requests	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI read command:

```
uom get "config/allow_jsonrpc"
```

⇒

```
true
```

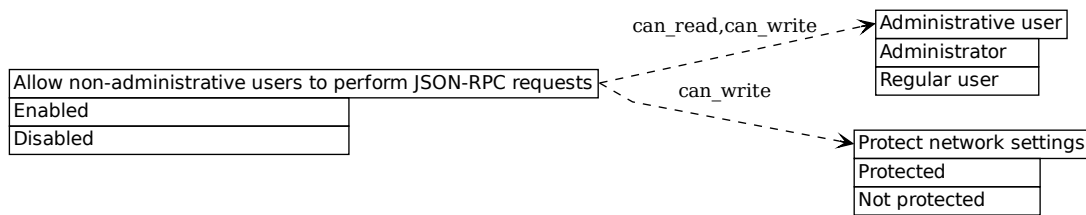
Sample JS request write command:

```
request.put({url:"config/allow_jsonrpc/",body:true});
```

[Browse more samples](#)

4.93 Allow non-administrative users to perform JSON-RPC requests

sum (boolean)	config/allow_jsonrpc_nonadmin/
Enable JSON-RPC API requests from users which are not administrators	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample uom library read command:

```
print (uom.dump (uom.config.allow_jsonrpc_nonadmin))
```

⇒

```
false
```

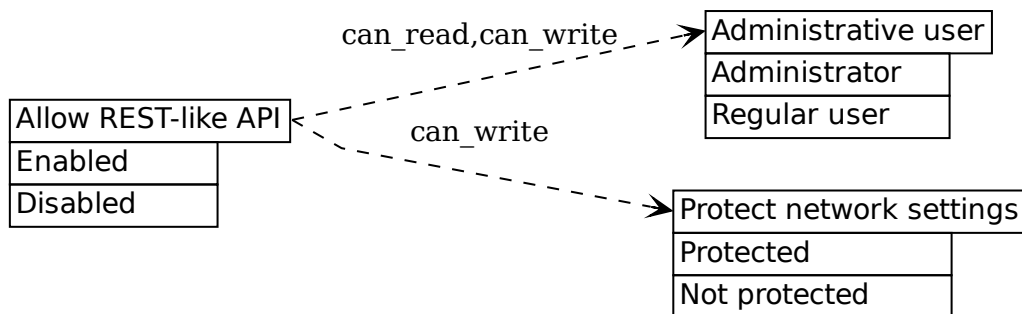
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "false" "http ↵
↵ ://192.168.0.100/restapi/config/allow_jsonrpc_nonadmin/"
```

[Browse more samples](#)

4.94 Allow REST-like API

sum (boolean)	config/allow_restapi/
Enable HTTP clients to perform REST-like API requests	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "true" "http ↵
↵ ://192.168.0.100/restapi/config/allow_restapi/"
```

Sample `uom` library read command:

```
print(uom.dump(uom.config.allow_restapi))
```

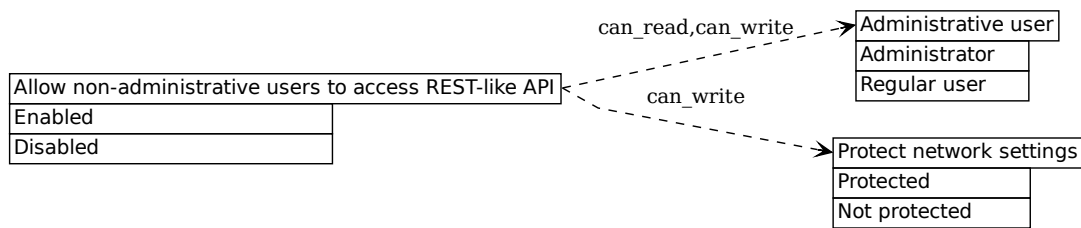
⇒

```
false
```

[Browse more samples](#)

4.95 Allow non-administrative users to access REST-like API

sum (boolean)	config/allow_restapi_nonadmin/
Enable REST-like API requests from users which are not administrators	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/config/allow_restapi_nonadmin/',
    ↪ auth=auth, headers=headers).json())
```

⇒

True

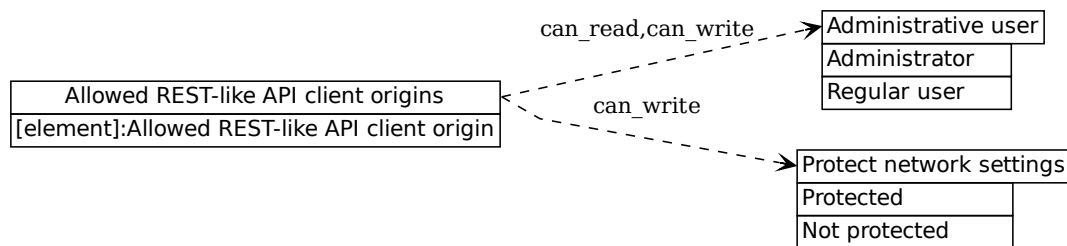
Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
    ↪ json" -H "Accept: application/json" --data-binary "true" "http
    ↪ ://192.168.0.100/restapi/config/allow_restapi_nonadmin/"
```

[Browse more samples](#)

4.96 Allowed REST-like API client origins

array	config/allow_restapi_origins/
List of origins permitted to access the REST-like API	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

This array contains [Allowed REST-like API client origin](#) elements.

Sample uom library allowed REST-like API client origin creation command:

```
uom.insert(uom.config.allow_restapi_origins,5,"http://foo.example.com")
```

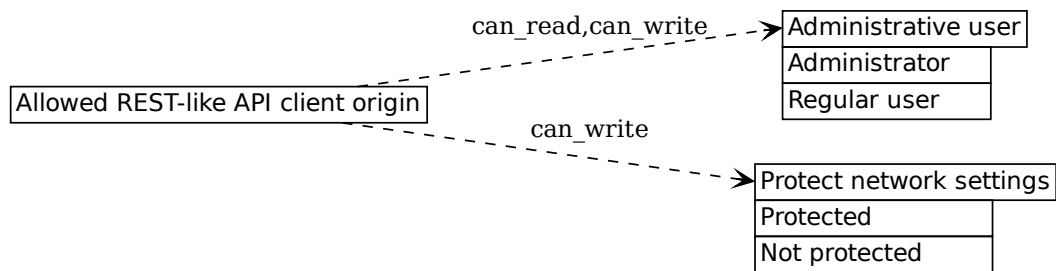
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "["https://foo.example. ↵
↵ com\"]" "http://192.168.0.100/restapi/config/allow_restapi_origins/"
```

[Browse more samples](#)

4.96.1 Allowed REST-like API client origin

string	config/allow_restapi_origins/N/
Origin permitted to access the REST-like API	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `curl` read command (note that `:allowed_rest_like_api_client_origin_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/allow_restapi_origins/: ↵
↵ allowed_rest_like_api_client_origin_index/"
```

⇒

```
"https://foo.example.com"
```

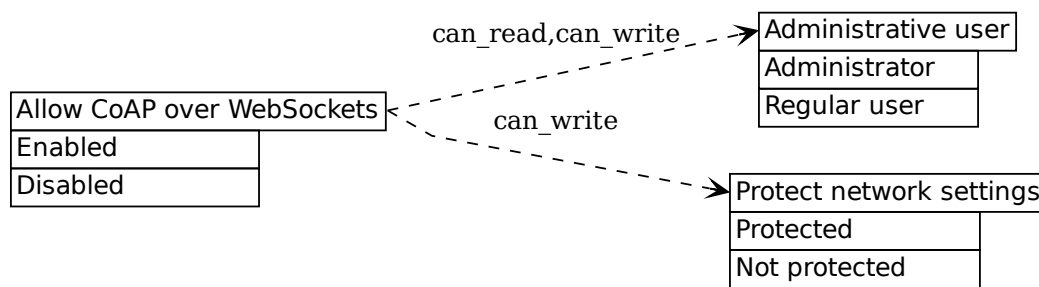
Sample `curl` write command (note that `:allowed_rest_like_api_client_origin_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"https://bar.example. ↵
↵ com:443\" \"http://192.168.0.100/restapi/config/allow_restapi_origins/: ↵
↵ allowed_rest_like_api_client_origin_index/"
```

[Browse more samples](#)

4.97 Allow CoAP over WebSockets

sum (boolean)	config/allow_coapws/
Enable HTTP clients to establish CoAP over WebSockets connections	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `uom` library write command:

```
uom.config.allow_coapws=false
```

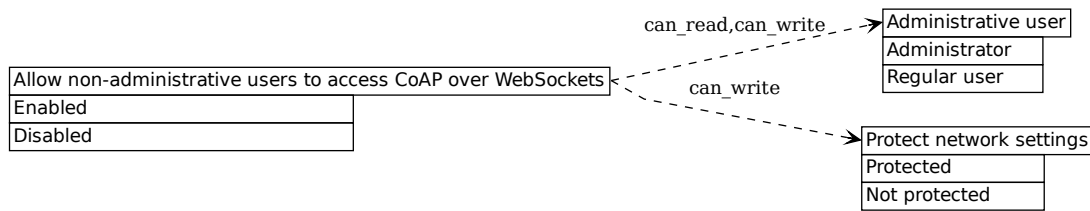
Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/config/allow_coapws/', auth=auth, ↵
↵ headers=headers, json=False)
```

[Browse more samples](#)

4.98 Allow non-administrative users to access CoAP over WebSockets

sum (boolean)	config/allow_coapws_nonadmin/
Enable CoAP over WebSockets connections from users which are not administrators	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI write command:

```
uom set "config/allow_coapws_nonadmin" "true"
```

Sample JS request read command:

```
request.get({url:"config/allow_coapws_nonadmin/"}, function(error, response, body) {
  ↪ console.log(body) });
```

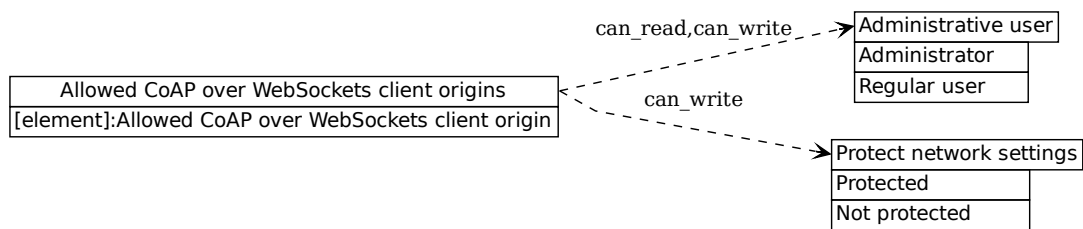
⇒

false

[Browse more samples](#)

4.99 Allowed CoAP over WebSockets client origins

array	config/allow_coapws_origins/
List of origins permitted to access CoAP over WebSockets	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

This array contains [Allowed CoAP over WebSockets client origin](#) elements.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/allow_coapws_origins/"
```

⇒

```
["http://foo.example.com", "https://baz.example.com:18443", "https://foo.example. ↵
↵ com:443"]
```

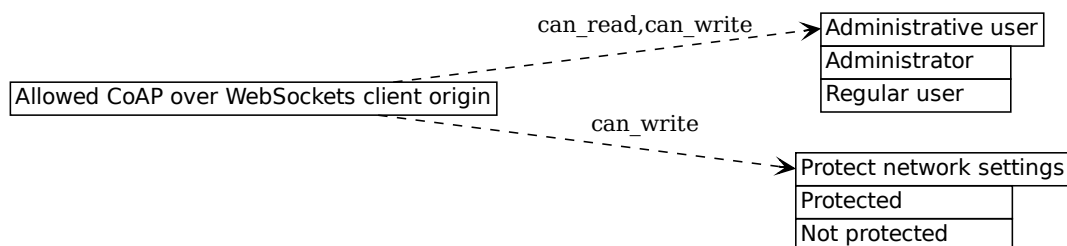
Sample `uom` library allowed CoAP over WebSockets client origin creation command:

```
uom.insert(uom.config.allow_coapws_origins,1,"https://baz.example.com:58443")
```

[Browse more samples](#)

4.99.1 Allowed CoAP over WebSockets client origin

string	config/allow_coapws_origins/N/
Origin permitted to access CoAP over WebSockets	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample requests **write command** (note that `_allowed_coap_over_websockets_client_origin_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/allow_coapws_origins/'+str(↵
    ↵ _allowed_coap_over_websockets_client_origin_index)+'/', auth=auth, headers=↵
    ↵ headers, json='http://foo.example.com')
```

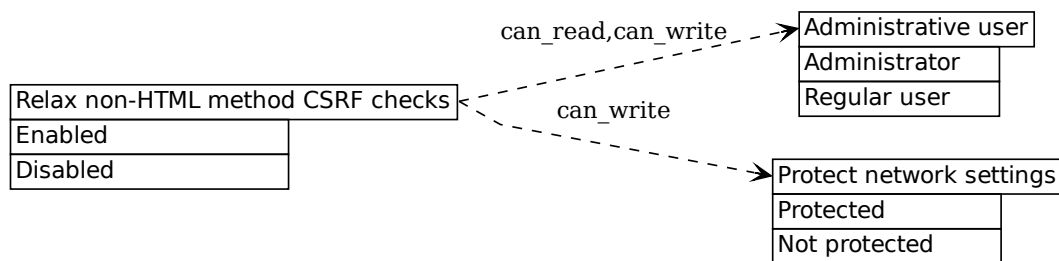
Sample JS request **write command** (note that `_allowed_coap_over_websockets_client_origin_index` is a variable):

```
request.put({url:"config/allow_coapws_origins/"+↵
    ↵ _allowed_coap_over_websockets_client_origin_index.toString()+"/", body:"↵
    ↵ https://bar.example.com:58443"});
```

[Browse more samples](#)

4.100 Relax non-HTML method CSRF checks

sum (boolean)	config/relax_nonhtml_methods/
Enable HTTP clients to perform PUT/PATCH/DELETE API requests without a CSRF protection header (currently cannot be sent via CoAP)	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI read command:

```
uom get "config/relax_nonhtml_methods"
```

⇒

```
false
```

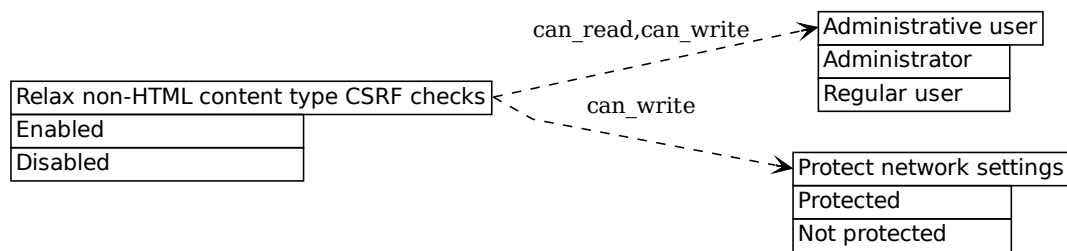
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
  ↵ json" -H "Accept: application/json" --data-binary "true" "http ↵
  ↵ ://192.168.0.100/restapi/config/relax_nonhtml_methods/"
```

[Browse more samples](#)

4.101 Relax non-HTML content type CSRF checks

sum (boolean)	config/relax_nonhtml_content_types/
Enable HTTP clients to perform API requests with e.g. application/json or application/json-rpc without a CSRF protection header (c	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample JS request write command:

```
request.put ({url:"config/relax_nonhtml_content_types/",body:false});
```

Sample requests read command:

```
print (requests.get ('http://192.168.0.100/restapi/config/ ↵
↵ relax_nonhtml_content_types/', auth=auth, headers=headers).json())
```

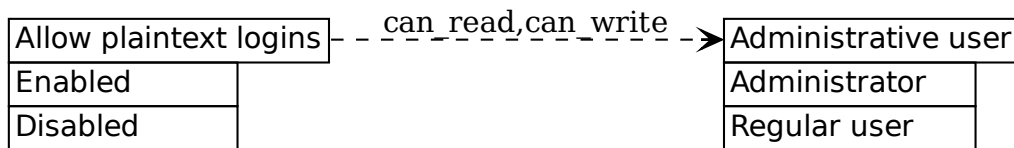
⇒

True

[Browse more samples](#)

4.102 Allow plaintext logins

sum (boolean)	config/allow_plaintext_logins/
Allow HTTP clients to authenticate using Basic authentication or plaintext login form	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/allow_plaintext_logins/"
```

⇒

true

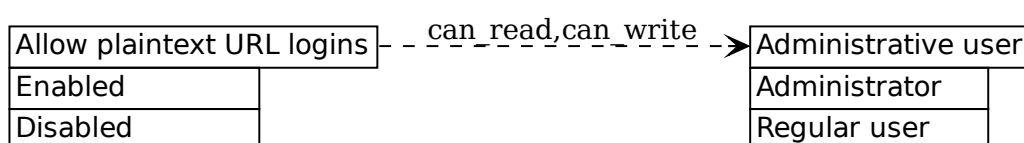
Sample `uom` library write command:

```
uom.config.allow_plaintext_logins=false
```

[Browse more samples](#)

4.103 Allow plaintext URL logins

sum (boolean)	config/allow_plaintext_url_logins/
Allow HTTP clients to authenticate to certain API types by supplying plaintext credentials in URL	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
↪ json" -H "Accept: application/json" --data-binary "[]" "http
↪ ://192.168.0.100/restapi/config/allow_plaintext_url_logins/"
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
↪ restapi/config/allow_plaintext_url_logins/"
```

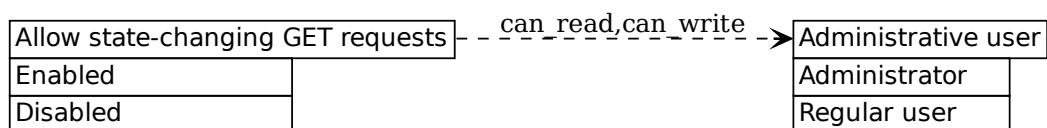
⇒

[]

[Browse more samples](#)

4.104 Allow state-changing GET requests

sum (boolean)	config/allow_modifying_get/
Allow HTTP clients to use GET web UI requests for changing state	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "true" "http ↵
↵ ://192.168.0.100/restapi/config/allow_modifying_get/"
```

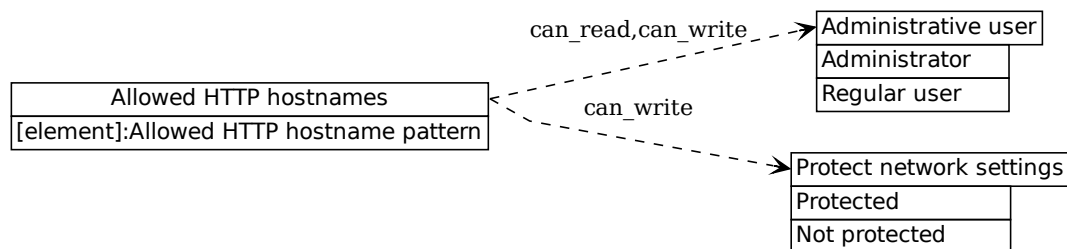
Sample CLI write command:

```
uom set "config/allow_modifying_get" "false"
```

[Browse more samples](#)

4.105 Allowed HTTP hostnames

array	config/allow_http_hostnames/
List of permitted hostnames that can be used to address the unit in the Host header	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

This array contains [Allowed HTTP hostname pattern](#) elements.

Sample curl allowed HTTP hostname pattern creation command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
↵ "Accept: application/json" --data-binary "\"${hostname}.bar.example.com\" ↵
↵ "http://192.168.0.100/restapi/config/allow_http_hostnames/"
```

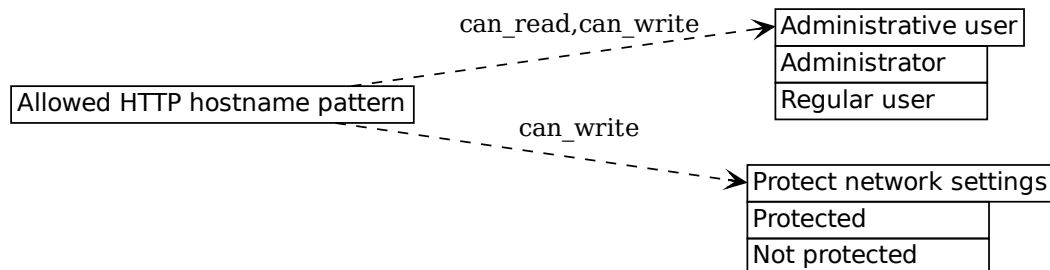
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "[\"*\", \"*\", \"*\", \"${ ↵
↵ hostname}.baz.example.com\", \"${hostname}\"]" "http://192.168.0.100/restapi ↵
↵ /config/allow_http_hostnames/"
```

[Browse more samples](#)

4.105.1 Allowed HTTP hostname pattern

string	config/allow_http_hostnames/N/
Permitted hostname pattern (*: any sequence of characters, \${hostname}: the current hostname)	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `uom` library write command (note that `_allowed_http_hostname_pattern_index` is a variable):

```
uom.config.allow_http_hostnames[_allowed_http_hostname_pattern_index]="*"
```

Sample `curl` read command (note that `:allowed_http_hostname_pattern_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/allow_http_hostnames/:allowed_http_hostname_pattern_index/"
```

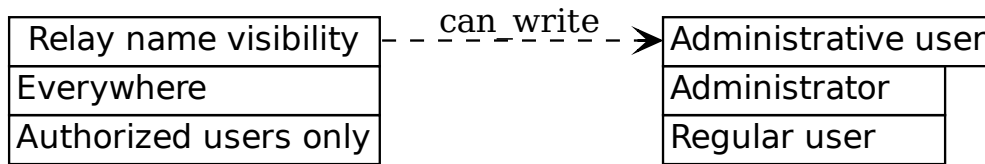
⇒

```
"${hostname}.bar.example.com"
```

[Browse more samples](#)

4.106 Relay name visibility

sum (boolean)	config/name_always_visible/
Flag enabling visibility of relay name	



Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Everywhere	Relay name visible everywhere, including the login page
constant false	Authorized users only	Relay name visible only on pages which require authorization

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/name_always_visible/"
```

⇒

true

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/config/name_always_visible/', ↵
↵ auth=auth,headers=headers).json())
```

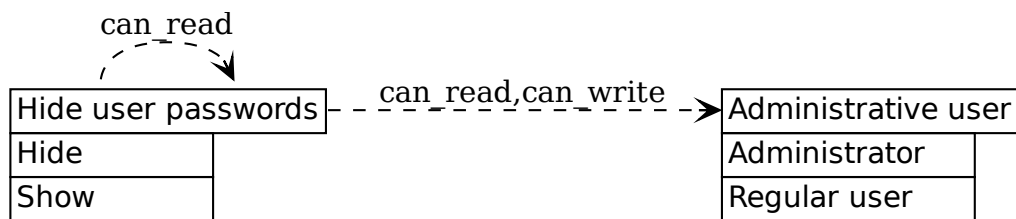
⇒

False

[Browse more samples](#)

4.107 Hide user passwords

sum (boolean)	config/hide_passwords/
Whether user passwords should be hidden	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Hide	Do not display user passwords in web UI
constant false	Show	Display user passwords in web UI

Sample uom library write command:

```
uom.config.hide_passwords=false
```

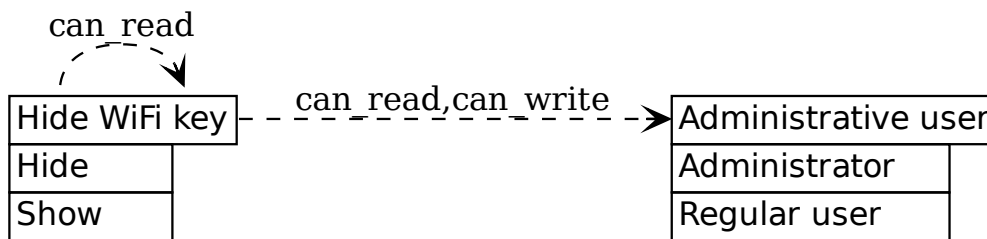
Sample CLI write command:

```
uom set "config/hide_passwords" "false"
```

[Browse more samples](#)

4.108 Hide WiFi key

sum (boolean)	config/hide_wifi_key/
Whether the WiFi key should be hidden	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Hide	Do not display WiFi key in web UI
constant false	Show	Display WiFi key in web UI

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/hide_wifi_key/"
```

⇒

false

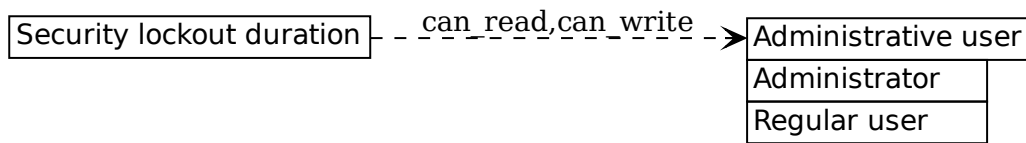
Sample `uom` library write command:

```
uom.config.hide_wifi_key=true
```

[Browse more samples](#)

4.109 Security lockout duration

number	config/lockout_delay_minutes/
Time during which, after several unsuccessful logins, subsequent logins are denied	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample JS request read command:

```
request.get({url:"config/lockout_delay_minutes/"},function(error,response,body) {
  ↪ console.log(body)});
```

⇒

60

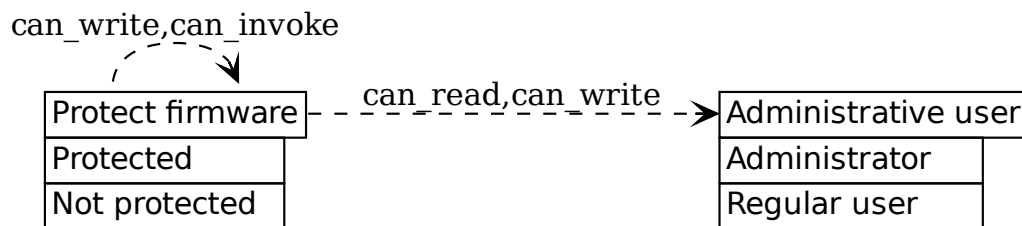
Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/config/lockout_delay_minutes/',auth=
  ↪ auth,headers=headers,json=60)
```

[Browse more samples](#)

4.110 Protect firmware

sum (boolean)	config/protect_firmware/
Protect firmware from being overwritten	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [the value](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Protected	Associated object cannot be changed
constant false	Not protected	Associated object can be changed

Sample uom library read command:

```
print(uom.dump(uom.config.protect_firmware))
```

⇒

```
false
```

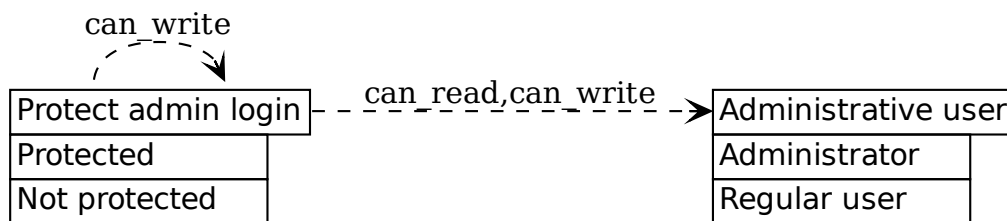
Sample CLI write command:

```
uom set "config/protect_firmware" "true"
```

[Browse more samples](#)

4.111 Protect admin login

sum (boolean)	config/protect_admin/
Protect admin settings from being modified	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [the value](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Protected	Associated object cannot be changed
constant false	Not protected	Associated object can be changed

Sample JS request read command:

```
request.get({url:"config/protect_admin/"},function(error,response,body) {console.log(body)});
```

⇒

false

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/config/protect_admin/', auth=auth, headers=headers).json())
```

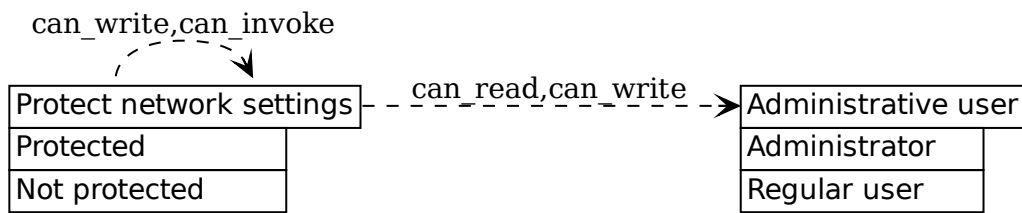
⇒

False

[Browse more samples](#)

4.112 Protect network settings

sum (boolean)	config/protect_network/
Protect network settings from being modified	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [the value](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Protected	Associated object cannot be changed
constant false	Not protected	Associated object can be changed

Sample uom library write command:

```
uom.config.protect_network=false
```

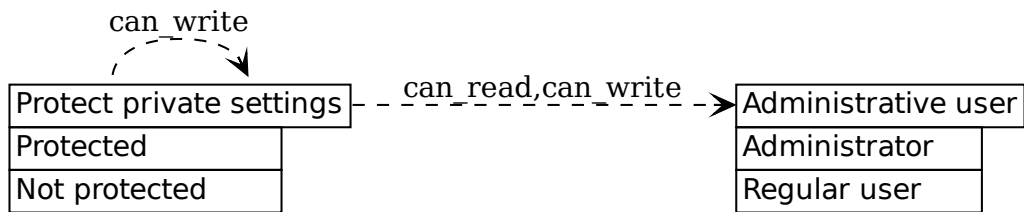
Sample JS request write command:

```
request.put ({url:"config/protect_network/",body:false});
```

[Browse more samples](#)

4.113 Protect private settings

sum (boolean)	config/protect_private_config/
Protect private configuration settings from being stored in backups	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [the value](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Protected	Associated object cannot be changed
constant false	Not protected	Associated object can be changed

Sample uom library write command:

```
uom.config.protect_private_config=true
```

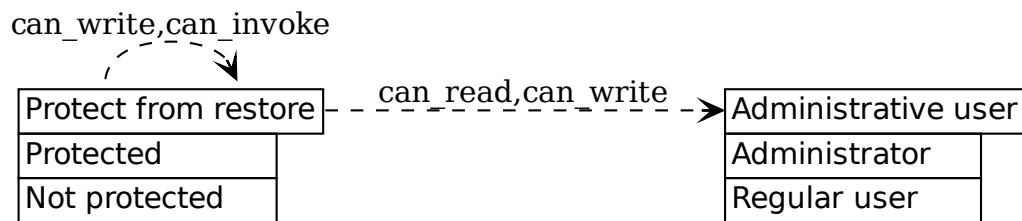
Sample JS request write command:

```
request.put({url:"config/protect_private_config/",body:false});
```

[Browse more samples](#)

4.114 Protect from restore

sum (boolean)	config/protect_restore/
Protect settings from being restored from backups	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [the value](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Protected	Associated object cannot be changed
constant false	Not protected	Associated object can be changed

Sample JS `request write` command:

```
request.put ({url:"config/protect_restore/",body:false});
```

Sample `requests read` command:

```
print (requests.get ('http://192.168.0.100/restapi/config/protect_restore/', auth= ↵
↵ auth,headers=headers).json())
```

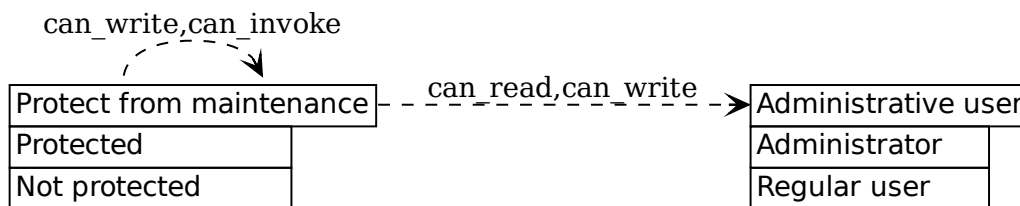
⇒

True

[Browse more samples](#)

4.115 Protect from maintenance

sum (boolean)	config/protect_maintenance/
Disable remote maintenance support	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [the value](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Protected	Associated object cannot be changed
constant false	Not protected	Associated object can be changed

Sample uom library read command:

```
print(uom.dump(uom.config.protect_maintenance))
```

⇒

```
true
```

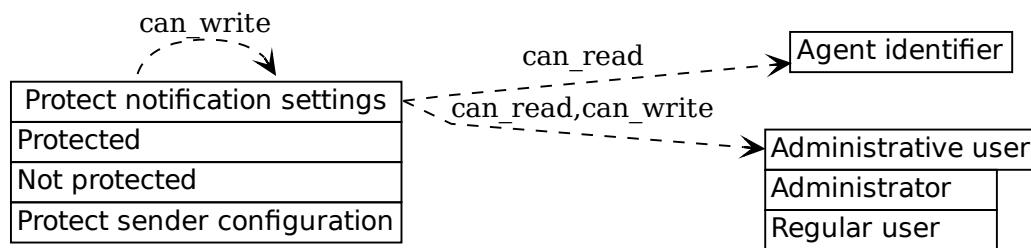
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "true" "http ↵
↵ ://192.168.0.100/restapi/config/protect_maintenance/"
```

[Browse more samples](#)

4.116 Protect notification settings

sum (variant)	config/protect_notification/
Protect notification settings from being modified	



Retrieving the value is denied if all of the following is true:

- not [administrative user](#)
- [agent identifier](#) is not equal to notification

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [the value](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Protected	Associated object cannot be changed, and its security-related parameters cannot
constant false	Not protected	Associated object can be changed, and its security-related parameters can be
constant "sender"	Protect sender configuration	Associated object cannot be changed, and its security-related parameters cannot

Sample JS `request read` command:

```
request.get({url:"config/protect_notification/"},function(error,response,body) {
  ↪ console.log(body) });
```

⇒

true

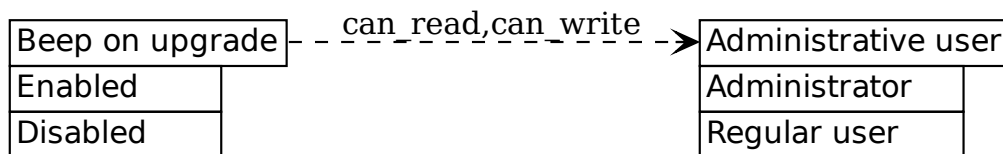
Sample JS `request write` command:

```
request.put({url:"config/protect_notification/",body:true});
```

[Browse more samples](#)

4.117 Beep on upgrade

sum (boolean)	config/upgrade_notify_beep/
Indicate firmware upgrade progress by beeping	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample uom library read command:

```
print (uom.dump (uom.config.upgrade_notify_beep))
```

⇒

```
false
```

Sample CLI read command:

```
uom get "config/upgrade_notify_beep"
```

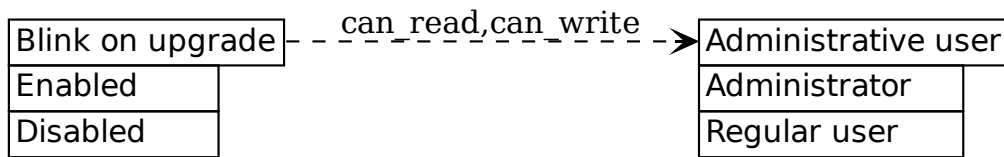
⇒

```
true
```

[Browse more samples](#)

4.118 Blink on upgrade

sum (boolean)	config/upgrade_notify_blink/
Indicate firmware upgrade progress by blinking	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample uom library read command:

```
print(uom.dump(uom.config.upgrade_notify_blink))
```

⇒

```
true
```

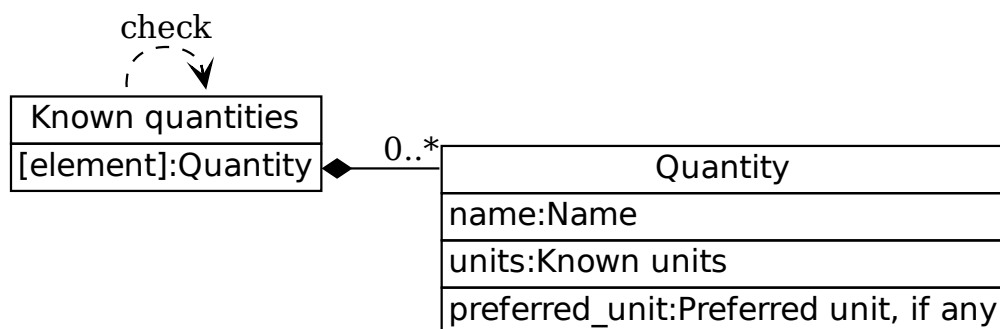
Sample JS request write command:

```
request.put({url:"config/upgrade_notify_blink/",body:false});
```

[Browse more samples](#)

4.119 Known quantities

map	config/known_quantities/
Map of known physical quantities	



This map does not support direct modification.

This map represents a value in persistent storage.

This map contains [Quantity](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command:

```
uom get "config/known_quantities"
```

⇒

...

Sample uom library read command:

```
print(uom.dump(uom.config.known_quantities))
```

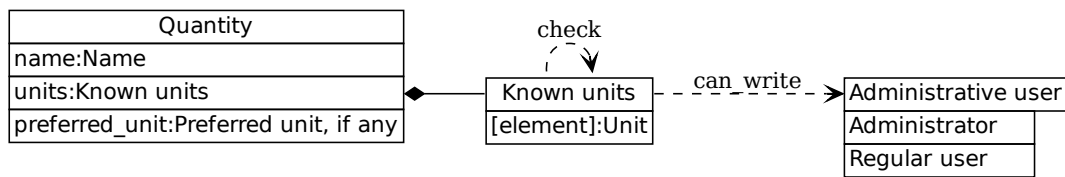
⇒

<...>

[Browse more samples](#)

4.119.1 Quantity

object	config/known_quantities/S/
Physical quantity	



This object contains the following items:

name	Name
units	Known units
preferred_unit	Preferred unit, if any

Sample requests write command (note that `_quantity` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/known_quantities/'+_quantity ↵
    ↵ + '/' , auth=auth, headers=headers, json={'preferred_unit': None, 'name': 'Count ↵
    ↵ ', 'units': {'times': {'offset': 0, 'internal': False, 'name': 'time', ' ↵
    ↵ scale': 1}}})
```

Sample JS request write command (note that `_quantity` is a variable):

```
request.put({url:"config/known_quantities/"+_quantity+"/",body:{"preferred_unit ↵
    ↵ ":"A","name":"Current","units":{"A":{"offset":0,"internal":false,"name":" ↵
    ↵ ampere","scale":1}}}});
```

[Browse more samples](#)

See also [Quantity: Name](#)

See also [Quantity: Known units](#)

See also [Quantity: Preferred unit, if any](#)

4.120 Quantity: Name

string	config/known_quantities/S/name/
Quantity name	

This string does not support direct modification.

This string represents a value in persistent storage.

Sample uom library read command (note that `_quantity` is a variable):

```
print(uom.dump(uom.config.known_quantities[_quantity].name))
```

⇒

"Voltage"

Sample requests read command (note that `_quantity` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/config/known_quantities/'+
    _quantity+'/name/', auth=auth, headers=headers).json())
```

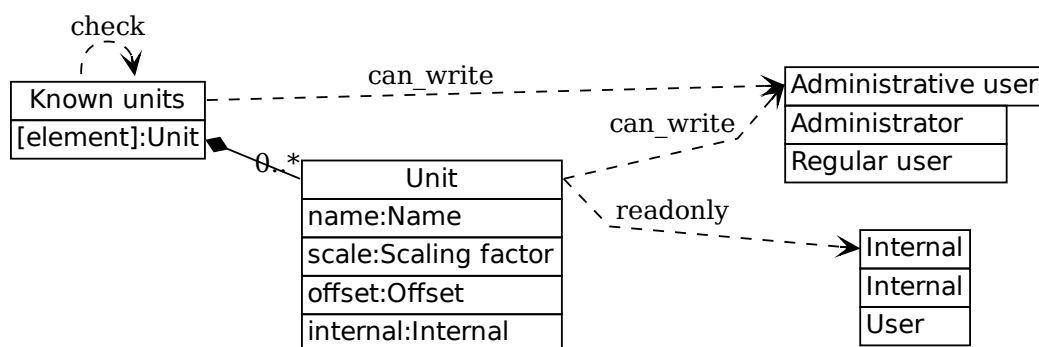
⇒

'Temperature'

[Browse more samples](#)

4.121 Quantity: Known units

map	config/known_quantities/S/units/
Map of known units for quantity	



Changing the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map represents a value in persistent storage.

This map contains [Unit](#) elements.

Sample uom library unit creation command (note that `_quantity` is a variable):

```
local composite=uom.copy(uom.config.known_quantities[_quantity].units)
uom.insert(composite,"s",{internal=false,name="second",offset=0,scale=1})
uom.config.known_quantities[_quantity].units=composite
```

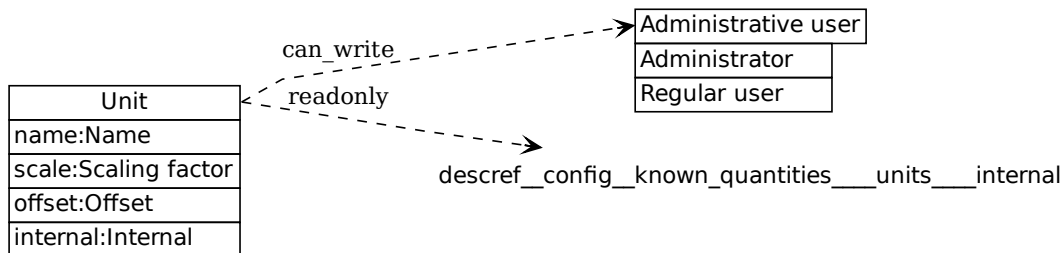
Sample curl write command (note that `: quantity` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
    json" -H "Accept: application/json" --data-binary '{"%":{"offset":0,
    name":"percent","scale":100},"times":{"offset":0,"internal":
    false,"name":"","scale":1}}' "http://192.168.0.100/restapi/config/
    known_quantities/:quantity/units/"
```

[Browse more samples](#)

4.121.1 Unit

object	config/known_quantities/S/units/S/
Unit of physical quantity	



Changing the value is denied if not [administrative user](#)

This object is a part of a composite value which is modified as a whole.

This object does not support direct modification if [internal](#).

This object represents a value in persistent storage.

This object contains the following items:

name	Name
scale	Scaling factor
offset	Offset
internal	Internal

Sample requests read command (note that `_quantity` and `_unit` are variables):

```
print(requests.get('http://192.168.0.100/restapi/config/known_quantities/' + \_quantity + \_unit + '/', auth=auth, headers=headers).json())
```

⇒

```
{'offset': 0, 'internal': True, 'name': 'time', 'scale': 1}
```

Sample uom library read command (note that `_quantity` and `_unit` are variables):

```
print(uom.dump(uom.config.known_quantities[_quantity].units[_unit]))
```

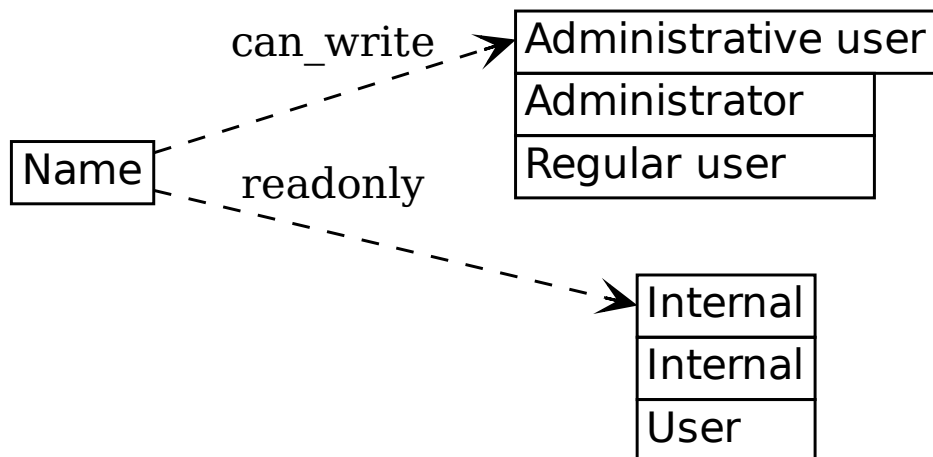
⇒

```
{internal=true, name="ampere", offset=0, scale=1}
```

[Browse more samples](#)

string	config/known_quantities/S/units/S/name/
Unit name	

4.121.1.1 Name



Changing the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification if [internal](#).

This string represents a value in persistent storage.

Sample uom library read command (note that `_quantity` and `_unit` are variables):

```
print(uom.dump(uom.config.known_quantities[_quantity].units[_unit].name))
```

⇒

```
"second"
```

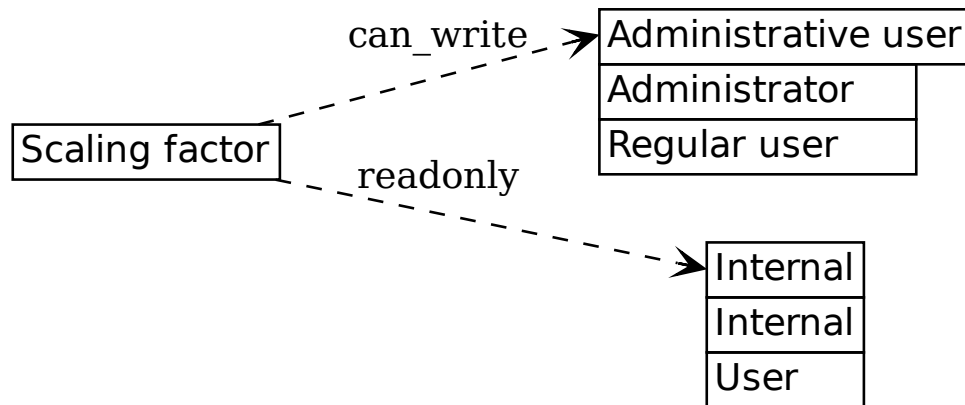
Sample JS request write command (note that `_quantity` and `_unit` are variables):

```
request.put({url:"config/known_quantities/"+_quantity+"/units/"+_unit+"/name/", ←
  ↪ body:"percent"});
```

[Browse more samples](#)

number	config/known_quantities/S/units/S/scale/
Scaling factor for conversion from standard SI unit	

4.121.1.2 Scaling factor



Changing the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

This number does not support direct modification if [internal](#).

This number represents a value in persistent storage.

Sample requests write command (note that `_quantity` and `_unit` are variables):

```
requests.put('http://192.168.0.100/restapi/config/known_quantities/'+_quantity+'/' + ↵
            ↵ units/'+_unit+'/scale/', auth=auth, headers=headers, json=1)
```

Sample uom library read command (note that `_quantity` and `_unit` are variables):

```
print(uom.dump(uom.config.known_quantities[_quantity].units[_unit].scale))
```

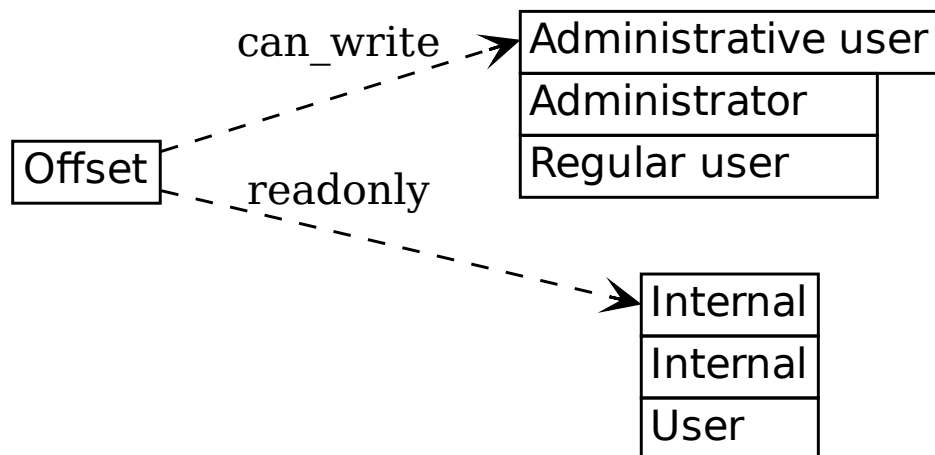
⇒

1

[Browse more samples](#)

number	config/known_quantities/S/units/S/offset/
Offset for conversion from standard SI unit	

4.121.1.3 Offset



Changing the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

This number does not support direct modification if [internal](#).

This number represents a value in persistent storage.

Sample JS request write command (note that `_quantity` and `_unit` are variables):

```
request.put({url:"config/known_quantities/"+_quantity+"/units/"+_unit+"/offset/",
  ↪ body:0});
```

Sample curl read command (note that `:quantity` and `:unit` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
  ↪ restapi/config/known_quantities/:quantity/units/:unit/offset/"
```

⇒

-459.67

[Browse more samples](#)

sum (boolean)	config/known_quantities/S/units/S/internal/
Flag indicating whether this measurement unit is internal	

4.121.1.4 Internal This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Internal	This unit is internal and cannot be modified
constant false	User	This unit is user-supplied and can be modified

Sample uom library read command (note that `_quantity` and `_unit` are variables):

```
print(uom.dump(uom.config.known_quantities[_quantity].units[_unit].internal))
```

⇒

```
true
```

Sample CLI read command (note that `quantity` and `unit` are variables):

```
uom get "config/known_quantities/${quantity}/units/${unit}/internal"
```

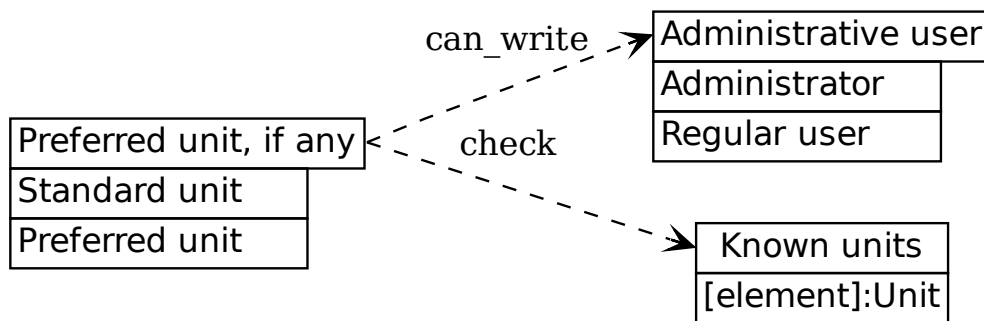
⇒

```
true
```

[Browse more samples](#)

4.122 Quantity: Preferred unit, if any

sum (optional string)	config/known_quantities/S/preferred_unit/
Default UI unit for quantity, if any	



Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Standard unit	UI shows quantity in SI units	
string	Preferred unit	Default UI unit for quantity	known units[the value]

Sample `requests` write command (note that `_quantity` is a variable):

```
requests.put('http://192.168.0.100/restapi/config/known_quantities/'+_quantity+'/' ↵
↵ preferred_unit/', auth=auth, headers=headers, json=None)
```

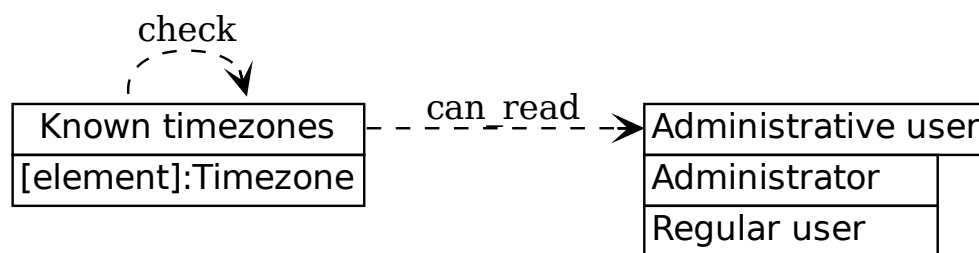
Sample CLI write command (note that `quantity` is a variable):

```
uom set "config/known_quantities/${quantity}/preferred_unit" "\"%\""
```

[Browse more samples](#)

4.123 Known timezones

map	config/known_timezones/
Map of known time zones	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map represents a value in persistent storage.

This map contains [Timezone](#) elements.

Creating elements in this collection is not supported.

Sample `uom` library read command:

```
print(uom.dump(uom.config.known_timezones))
```

⇒

Sample `curl` read command:

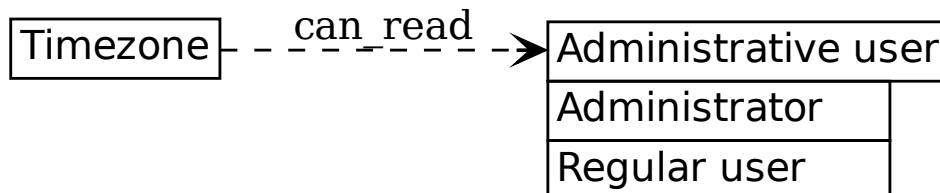
```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/known_timezones/"
```

⇒

[Browse more samples](#)

4.123.1 Timezone

string	config/known_timezones/S/
Time zone name	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

This string represents a value in persistent storage.

Sample `curl` read command (note that `:timezone` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/known_timezones/:timezone/"
```

⇒

"UTC+12"

Sample CLI read command (note that `timezone` is a variable):

```
uom get "config/known_timezones/${timezone}"
```

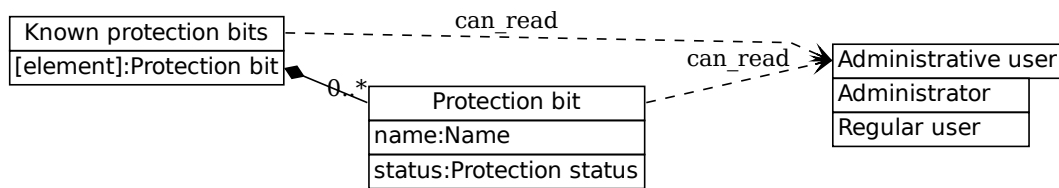
⇒

"UTC"

[Browse more samples](#)

4.124 Known protection bits

map	config/known_protection_bits/
Map of known protection bits	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Protection bit](#) elements.

Creating elements in this collection is not supported.

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/config/known_protection_bits/', ↵
    ↵ auth=auth,headers=headers).json())
```

⇒

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/config/known_protection_bits/"
```

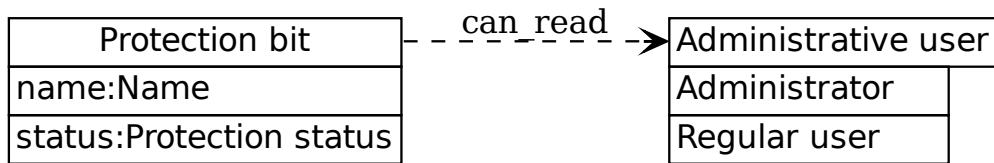
⇒

[Browse more samples](#)

See also [Known protection bits: Protection bit](#)

4.125 Known protection bits: Protection bit

object	config/known_protection_bits/S/
Protection bit properties	



Retrieving the value is denied if not [administrative user](#)

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

name	Name
status	Protection status

Sample `curl` write command (note that `:protection_bit` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
    ↵ json" -H "Accept: application/json" --data-binary '{"name\":"Firmware ↵
    ↵ protection\","status\:false}' "http://192.168.0.100/restapi/config/ ↵
    ↵ known_protection_bits/:protection_bit/"
```

Sample `uom` library write command (note that `_protection_bit` is a variable):

```
uom.config.known_protection_bits[_protection_bit]={name="Protection from restore ↵
    ↵ from backup",status=false}
```

[Browse more samples](#)

4.125.1 Name

string	config/known_protection_bits/S/name/
Protection bit name	

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample JS request read command (note that `_protection_bit` is a variable):

```
request.get({url:"config/known_protection_bits/"+_protection_bit+"/name/"}, ↵
    ↵ function(error,response,body) {console.log(body)});
```

⇒

"Administrator credentials protection"

Sample uom library read command (note that `_protection_bit` is a variable):

```
print(uom.dump(uom.config.known_protection_bits[_protection_bit].name))
```

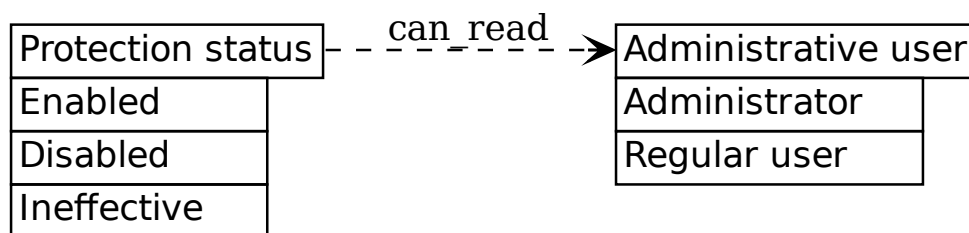
⇒

```
"Private configuration protection"
```

[Browse more samples](#)

4.125.2 Protection status

sum (variant)	config/known_protection_bits/S/status/
Status of protection	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant true	Enabled	Protection is enabled and effective
constant false	Disabled	Protection is disabled
string	Ineffective	Protection is enabled, but not effective for the following reason

Sample CLI read command (note that `protection_bit` is a variable):

```
uom get "config/known_protection_bits/${protection_bit}/status"
```

⇒

```
false
```

Sample requests read command (note that `_protection_bit` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/config/known_protection_bits/' + ↵
    ↵ _protection_bit + '/status/', auth=auth, headers=headers).json())
```

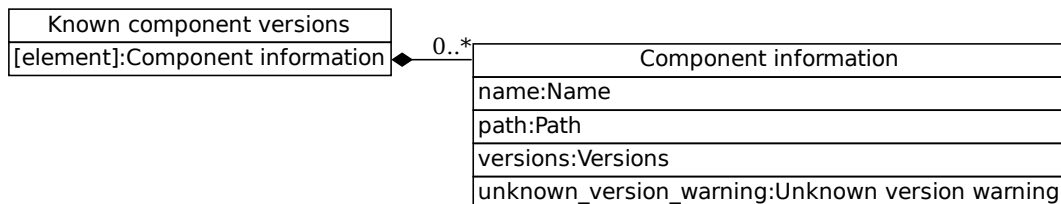
⇒

'You have enabled that and that service which allows to bypass this protection'

[Browse more samples](#)

4.126 Known component versions

map	config/known_component_versions/
Map of known component version ranges and their status	



This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map represents a value in persistent storage.

This map contains [Component information](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print (uom.dump (uom.config.known_component_versions))
```

⇒

<...>

Sample CLI read command:

```
uom get "config/known_component_versions"
```

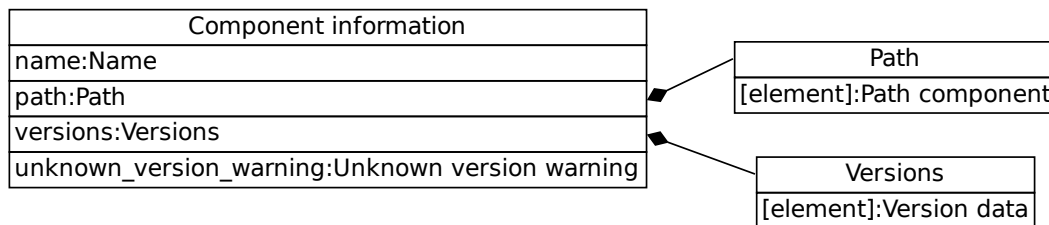
⇒

...

[Browse more samples](#)

4.126.1 Component information

object	config/known_component_versions/S/
Version information for a component	



This object is a part of a composite value which is modified as a whole.

This object does not support direct modification.

This object represents a value in persistent storage.

This object contains the following items:

name	Name
path	Path
versions	Versions
unknown_version_warning	Unknown version warning

Sample CLI read command (note that `component_information` is a variable):

```
uom get "config/known_component_versions/${component_information}"
```

⇒

Sample JS request read command (note that `_component_information` is a variable):

```
request.get({url:"config/known_component_versions/"+_component_information+"/"}, ↵
  ↵ function(error,response,body) {console.log(body)});
```

⇒

[Browse more samples](#)

See also [Component information: Name](#)

See also [Component information: Path](#)

See also [Component information: Versions](#)

See also [Component information: Unknown version warning](#)

4.127 Component information: Name

string	config/known_component_versions/S/name/
Component name	

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

This string represents a value in persistent storage.

Sample JS request read command (note that `_component_information` is a variable):

```
request.get({url:"config/known_component_versions/"+_component_information+"/name"
↔ ↔ /"},function(error,response,body) {console.log(body)});
```

⇒

```
"Bootloader"
```

Sample curl read command (note that `:component_information` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
↔ ↔ restapi/config/known_component_versions/:component_information/name/"
```

⇒

```
"Bootloader"
```

[Browse more samples](#)

4.128 Component information: Path

array	config/known_component_versions/S/path/
Component version path relative to object model root	

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array represents a value in persistent storage.

This array contains [Path component](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command (note that `_component_information` is a variable):

```
print(uom.dump(uom.config.known_component_versions[_component_information].path))
```

⇒

```
{"relay","version"}
```

Sample requests read command (note that `_component_information` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/config/known_component_versions ↵
    ↵ /'+_component_information+'/path/', auth=auth, headers=headers) .json())
```

⇒

```
['config', 'bootloader_id']
```

[Browse more samples](#)

4.128.1 Path component

sum (variant)	config/known_component_versions/S/path/N/
Element of component version path	

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

string	String	String path component
number	Number	Number path component

Sample JS request read command (note that `_component_information` and `_path_component_index` are variables):

```
request.get ({url: "config/known_component_versions/" + _component_information + "/path ↵
    ↵ /" + _path_component_index.toString() + "/" }, function (error, response, body) { ↵
    ↵ console.log (body) });
```

⇒

```
"bootloader_id"
```

Sample requests read command (note that `_component_information` and `_path_component_index` are variables):

```
print (requests.get ('http://192.168.0.100/restapi/config/known_component_versions ↵
    ↵ /'+_component_information+'/path/'+str (_path_component_index)+'/', auth=auth ↵
    ↵ , headers=headers) .json())
```

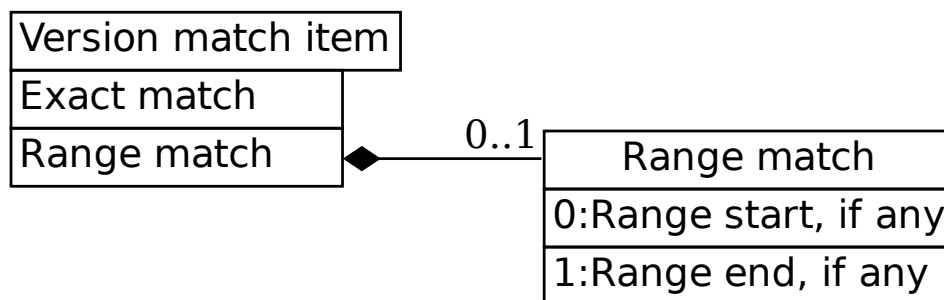
⇒

```
'bootloader_id'
```

[Browse more samples](#)

4.129 Version match: Version match item

sum (variant)	config/known_component_versions/S/versions/N/1/N/
Condition for matching the version	



This sum is a part of a composite value which is modified as a whole.

This sum can assume the following values:

string	Exact match	Matches this exact version
tuple	Range match	Matches dot-separated versions in this range, including start but excluding end

Sample curl read command (note that `:component_information`, `:version_data_index` and `:version_match_item_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/config/known_component_versions/:component_information/versions/: ↵
    ↵ version_data_index/0/:version_match_item_index/"
```

⇒

"1.4.8.0"

Sample CLI read command (note that `component_information`, `version_data_index` and `version_match_item_index` are variables):

```
uom get "config/known_component_versions/${component_information}/versions/${ ↵
    ↵ version_data_index}/0/${version_match_item_index}"
```

⇒

"1.4.9.0"

[Browse more samples](#)

4.129.1 Range match

(possibly) tuple	config/known_component_versions/S/versions/N/1/N/
Matches dot-separated versions in this range, including start but excluding end	

This tuple is a part of a composite value which is modified as a whole.

This tuple does not support direct modification.

This tuple represents a value in persistent storage.

This tuple contains the following items:

1	Range start, if any
2	Range end, if any

[Browse more samples](#)

sum (optional string)	config/known_component_versions/S/versions/N/1/N/1/
Start of range to match (included), if any	

4.129.1.1 Range start, if any This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	No range start limit	Match arbitrarily old versions
string	Range start	Start of range to match (included)

Sample JS request read command (note that `_component_information`, `_version_data_index` and `_version_match_item_index` are variables):

```
request.get({url:"config/known_component_versions/"+_component_information+"/  
    ↪ versions/"+_version_data_index.toString()+"/0/"+_version_match_item_index.  
    ↪ toString()+"/0/"},function(error,response,body) {console.log(body)});
```

⇒

null

Sample requests read command (note that `_component_information`, `_version_data_index` and `_version_match_item_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/config/known_component_versions  
    ↪ /'+_component_information+'/versions/'+str(_version_data_index)+'0/'+str(  
    ↪ _version_match_item_index)+'0/',auth=auth,headers=headers).json())
```

⇒

'1.8.3.0'

[Browse more samples](#)

sum (optional string)	config/known_component_versions/S/versions/N/1/N/2/
End of range to match (excluded), if any	

4.129.1.2 Range end, if any This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	No range end limit	Match arbitrarily new versions
string	Range end	End of range to match (excluded)

Sample JS request read command (note that `_component_information`, `_version_data_index` and `_version_match_item_index` are variables):

```
request.get({url:"config/known_component_versions/"+_component_information+"/ ↵
↵ versions/"+_version_data_index.toString()+"/0/"+_version_match_item_index. ↵
↵ toString()+"/1/"},function(error,response,body) {console.log(body)});
```

⇒

null

Sample uom library read command (note that `_component_information`, `_version_data_index` and `_version_match_item_index` are variables):

```
print(uom.dump(uom.config.known_component_versions[_component_information]. ↵
↵ versions[_version_data_index][1][_version_match_item_index][2]))
```

⇒

null

[Browse more samples](#)

4.130 Issues: Issue

tuple	config/known_component_versions/S/versions/N/2/N/
Known issue description	

This tuple is a part of a composite value which is modified as a whole.

This tuple does not support direct modification.

This tuple represents a value in persistent storage.

This tuple contains the following items:

1	Kind
2	Title
3	Description
4	Importance

Sample CLI read command (note that `component_information`, `version_data_index` and `issue_index` are variables):

```
uom get "config/known_component_versions/${component_information}/versions/${
↵ version_data_index}/1/${issue_index}"
```

⇒

```
["missing-feature", "Keypad configuration support", "The relay now updates", 0.9]
```

Sample curl read command (note that `:component_information`, `:version_data_index` and `:issue_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
↵ restapi/config/known_component_versions/:component_information/versions/:
↵ version_data_index/1/:issue_index/"
```

⇒

```
["missing-feature", "UART overwrite support", "The UART now switches", 0.7]
```

[Browse more samples](#)

4.130.1 Kind

sum (enumerated string)	config/known_component_versions/S/versions/N/2/N/1/
Kind of issue	

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant "bug"	Bug	Problem present in the version(s)
constant "missing-feature"	Missing feature	Feature not present in the version(s)

Sample curl read command (note that `:component_information`, `:version_data_index` and `:issue_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
↵ restapi/config/known_component_versions/:component_information/versions/:
↵ version_data_index/1/:issue_index/0/"
```

⇒

```
"missing-feature"
```

Sample JS request read command (note that `_component_information`, `_version_data_index` and `_issue_index` are variables):

```
request.get({url: "config/known_component_versions/" + _component_information + "/"
↵ versions/" + _version_data_index.toString() + "/1/" + _issue_index.toString()
↵ + "/0/"}, function(error, response, body) {console.log(body)});
```

⇒

"bug"

[Browse more samples](#)

4.130.2 Title

string	config/known_component_versions/S/versions/N/2/N/2/
Title of the issue	

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

This string represents a value in persistent storage.

Sample `curl` read command (note that `:component_information`, `:version_data_index` and `:issue_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵  
↵ restapi/config/known_component_versions/:component_information/versions/: ↵  
↵ version_data_index/1/:issue_index/1/"
```

⇒

"GPIO management support"

Sample `JS` request read command (note that `_component_information`, `_version_data_index` and `_issue_index` are variables):

```
request.get({url:"config/known_component_versions/"+_component_information+"/ ↵  
↵ versions/"+_version_data_index.toString()+"/1/"+_issue_index.toString() ↵  
↵ +"/1/"},function(error,response,body) {console.log(body)});
```

⇒

"LCD management support"

[Browse more samples](#)

4.130.3 Description

string	config/known_component_versions/S/versions/N/2/N/3/
Textual description of the issue	

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

This string represents a value in persistent storage.

Sample `JS` request read command (note that `_component_information`, `_version_data_index` and `_issue_index` are variables):

```
request.get({url:"config/known_component_versions/"+_component_information+"/ ↵
↵ versions/"+_version_data_index.toString()+"/1/"+_issue_index.toString() ↵
↵ +"/2/"},function(error,response,body) {console.log(body)});
```

⇒

"The relay now switches"

Sample curl read command (note that :component_information, :version_data_index and ↵ :issue_index are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/known_component_versions/:component_information/versions/: ↵
↵ version_data_index/1/:issue_index/2/"
```

⇒

"The relay now configures"

[Browse more samples](#)

4.130.4 Importance

number	config/known_component_versions/S/versions/N/2/N/4/
Relative importance of the issue	

This number is a part of a composite value which is modified as a whole.

This number does not support direct modification.

This number represents a value in persistent storage.

Sample JS request read command (note that _component_information, _version_data_index and _issue_index are variables):

```
request.get({url:"config/known_component_versions/"+_component_information+"/ ↵
↵ versions/"+_version_data_index.toString()+"/1/"+_issue_index.toString() ↵
↵ +"/3/"},function(error,response,body) {console.log(body)});
```

⇒

0.1

Sample curl read command (note that :component_information, :version_data_index and ↵ :issue_index are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/config/known_component_versions/:component_information/versions/: ↵
↵ version_data_index/1/:issue_index/3/"
```

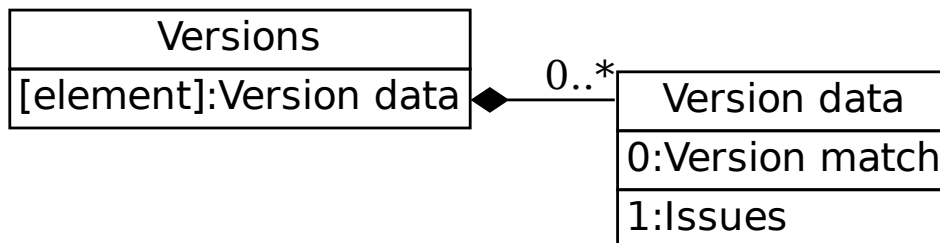
⇒

0.2

[Browse more samples](#)

4.131 Component information: Versions

array	config/known_component_versions/S/versions/
List of known versions or ranges	



This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array represents a value in persistent storage.

This array contains [Version data](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command (note that `_component_information` is a variable):

```
request.get({url:"config/known_component_versions/"+_component_information+"/ ← ↩
↩ ↪ versions/"},function(error,response,body) {console.log(body)});
```

⇒

Sample CLI read command (note that `component_information` is a variable):

```
uom get "config/known_component_versions/${component_information}/versions"
```

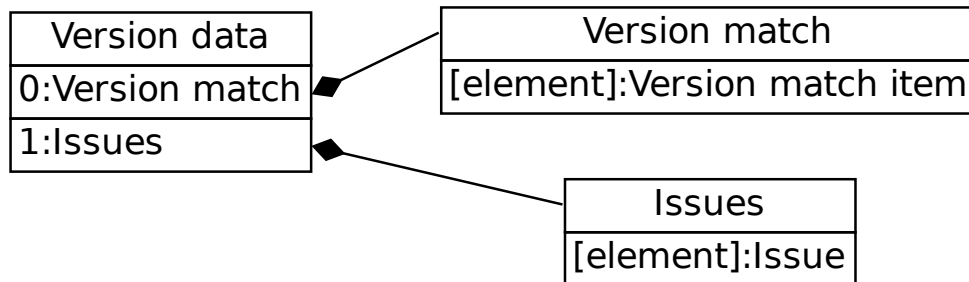
⇒

...

[Browse more samples](#)

4.131.1 Version data

tuple	config/known_component_versions/S/versions/N/
Version information	



This tuple is a part of a composite value which is modified as a whole.

This tuple does not support direct modification.

This tuple represents a value in persistent storage.

This tuple contains the following items:

1	Version match
2	Issues

Sample `uom` library read command (note that `_component_information` and `_version_data_index` are variables):

```
print(uom.dump(uom.config.known_component_versions[_component_information].
    ↪ versions[_version_data_index]))
```

⇒

Sample `requests` read command (note that `_component_information` and `_version_data_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/config/known_component_versions
    ↪ /'+_component_information+'/versions/'+str(_version_data_index)+'/', auth=
    ↪ auth, headers=headers).json())
```

⇒

```
[['6acee2b79fc2b94c1f5c619511a80f1cf28d74f21b6b93fb41737bcc513c04bc'], [['bug', '
    ↪ Outlet overwrite issue', 'The GPIO fails to update', 0.8], ['bug', 'GPIO
    ↪ switch timeouts', 'The outlet doesn\'t update', 0.5]]]
```

[Browse more samples](#)

array	config/known_component_versions/S/versions/N/1/
Conditions for matching the version	

4.131.1.1 Version match This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array represents a value in persistent storage.

This array contains [Version match item](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command (note that `_component_information` and `_version_data_index` are variables):

```
request.get({url:"config/known_component_versions/"+_component_information+"/  
    ↪ versions/"+_version_data_index.toString()+"0/"},function(error,response,  
    ↪ body) {console.log(body)});
```

⇒

```
["54b99c86937681b5928d9b3a96ecd816ce605593f2af0cad6101b098b07f902e"]
```

Sample uom library read command (note that `_component_information` and `_version_data_index` are variables):

```
print(uom.dump(uom.config.known_component_versions[_component_information].  
    ↪ versions[_version_data_index][1]))
```

⇒

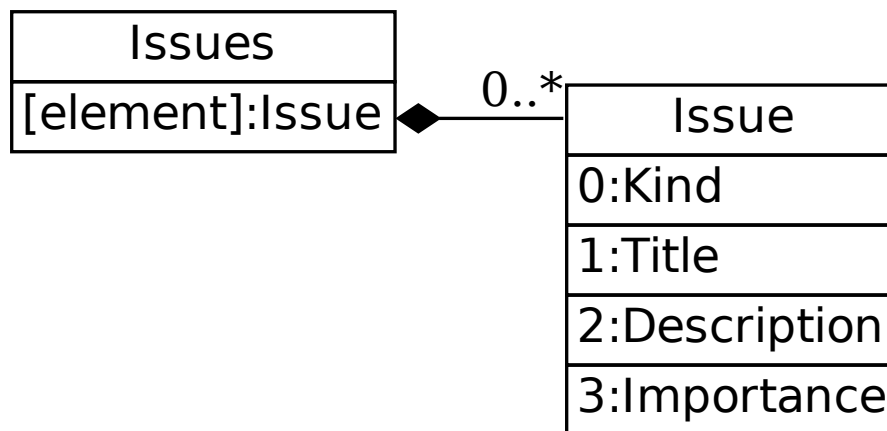
```
{ {null,"1.31.6.0"}, "1.63.44.0", { "1.1.7.0", "1.9.7.0"}, {null  
    ↪ , "1.79.3.0"}, {"1.42.49.0", "1.50.65.0"}, {"1.3.77.0", "1.6.3.0"}, {null  
    ↪ , "1.94.54.0"}, {null, "1.45.38.0"} }
```

[Browse more samples](#)

See also [Version match: Version match item](#)

array	config/known_component_versions/S/versions/N/2/
Known issues with components in this range	

4.131.1.2 Issues



This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array represents a value in persistent storage.

This array contains [Issue](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command (note that `component_information` and `version_data_index` are variables):

```
uom get "config/known_component_versions/${component_information}/versions/${↵
↵ version_data_index}/1"
```

⇒

```
[["missing-feature", "Keypad configuration support", "The relay now switches", 1]]
```

Sample uom library read command (note that `_component_information` and `_version_data_index` are variables):

```
print (uom.dump(uom.config.known_component_versions[_component_information]. ↵
↵ versions[_version_data_index][2]))
```

⇒

```
{{"missing-feature", "UART switch support", "The UART now configures", 0.4}, {" ↵
↵ missing-feature", "UART overwrite support", "The LCD now configures", 0.2}, {" ↵
↵ bug", "Boot configuration issues", "The relay fails to configure", 0.5}}
```

[Browse more samples](#)

See also [Issues](#): [Issue](#)

4.132 Component information: Unknown version warning

string	config/known_component_versions/S/unknown_version_warning/
Warning to display if version matched no entries	

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

This string represents a value in persistent storage.

Sample JS request read command (note that `_component_information` is a variable):

```
request.get({url:"config/known_component_versions/"+_component_information+"/  
    ↪ unknown_version_warning/"},function(error,response,body) {console.log(body) ↪  
    ↪ });
```

⇒

"WiFi and/or boot issues possible"

Sample requests read command (note that `_component_information` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/config/known_component_versions ↪  
    ↪ /'+_component_information+'/unknown_version_warning/',auth=auth,headers= ↪  
    ↪ headers).json())
```

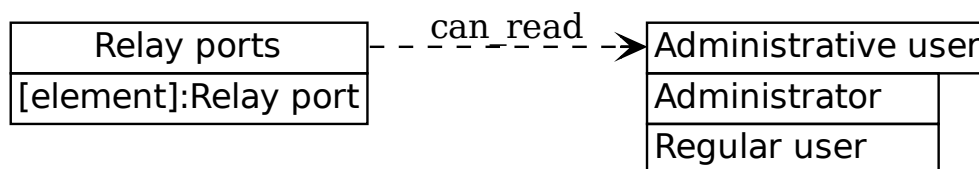
⇒

'Boot issues possible'

[Browse more samples](#)

4.133 Relay ports

array	config/relay_ports/
List of devices to which relay modules are connected	



Retrieving the value is denied if not [administrative user](#)

This array does not support direct modification.

This array represents a value in persistent storage.

This array is expected to be visible to advanced users only.

This array contains [Relay port](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print(uom.dump(uom.config.relay_ports))
```

⇒

```
{"ttyATH0"}
```

Sample JS request read command:

```
request.get({url:"config/relay_ports/"},function(error,response,body) {console. ↵  
    ↵ log(body)});
```

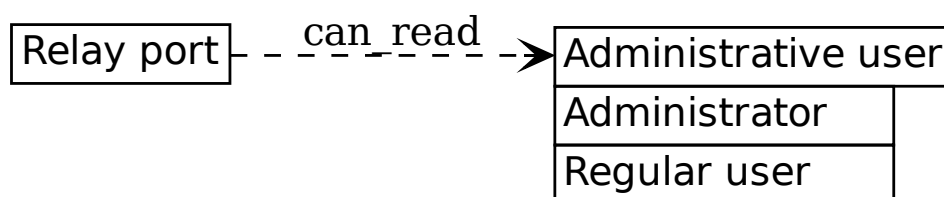
⇒

```
["ttyATH0"]
```

[Browse more samples](#)

4.133.1 Relay port

string	config/relay_ports/N/
Filename of a relay module device	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

This string is expected to be visible to advanced users only.

Sample uom library read command (note that `_relay_port_index` is a variable):

```
print(uom.dump(uom.config.relay_ports[_relay_port_index]))
```

```
⇒
```

```
"ttyATH0"
```

Sample CLI read command (note that `relay_port_index` is a variable):

```
uom get "config/relay_ports/${relay_port_index}"
```

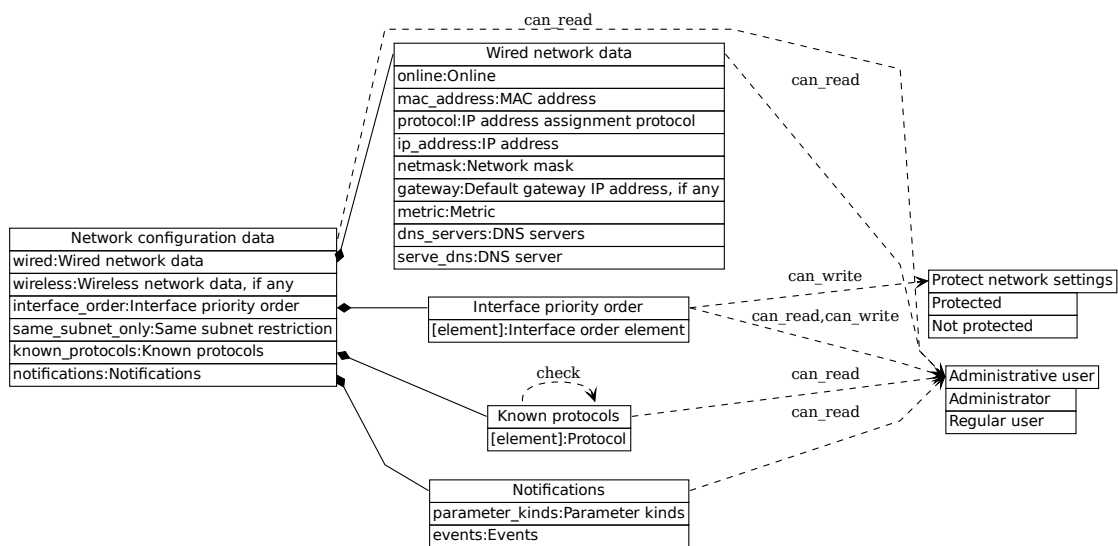
```
⇒
```

```
"ttyATH0"
```

[Browse more samples](#)

5 Network configuration data

object	network/
Data related to network state and configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

wired	Wired network data
wireless	Wireless network data, if any
interface_order	Interface priority order
same_subnet_only	Same subnet restriction
known_protocols	Known protocols
notifications	Notifications

Sample CLI write command:

```
uom set network ...
```

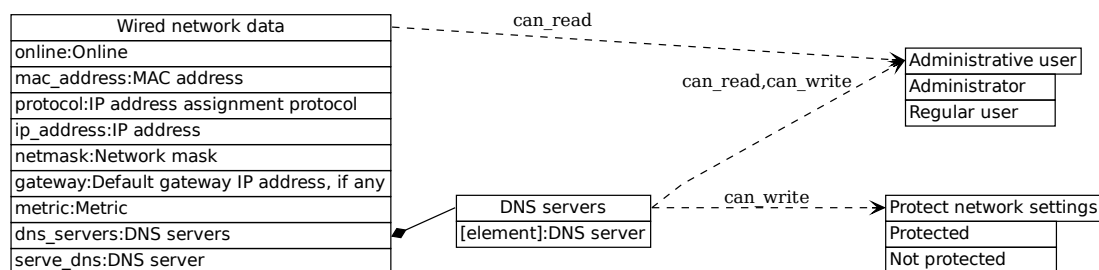
Sample JS request write command:

```
request.put ({url:"network/",body:<...>});
```

[Browse more samples](#)

5.1 Wired network data

object	network/wired/
Data related to wired network state and configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

online	Online
mac_address	MAC address
protocol	IP address assignment protocol
ip_address	IP address
netmask	Network mask
gateway	Default gateway IP address, if any
metric	Metric
dns_servers	DNS servers
serve_dns	DNS server

Sample JS request write command:

```
request.put ({url:"network/wired/",body:{ "ip_address":"10.188.217.180", "serve_dns
↔ ":false, "protocol":"dhcp", "online":false, "gateway":"10.0.0.45", "dns_servers
↔ ": ["10.0.0.26", "193.188.137.75"], "mac_address":"7C:E1:FF:BE:8B:8F", "netmask
↔ ": "255.0.0.0" }}};
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
↔ restapi/network/wired/"
```

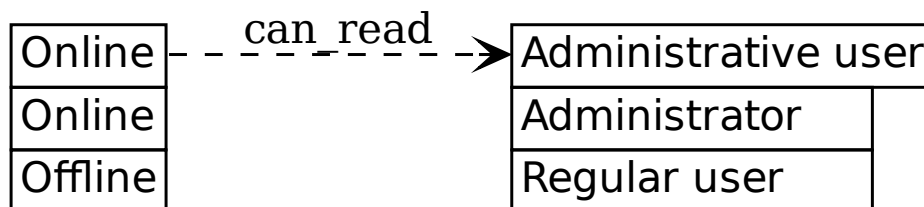
⇒

```
{ "ip_address": "10.158.163.135", "serve_dns": false, "protocol": "dhcp", "online": true ↵
  ↵ , "gateway": "10.0.0.47", "dns_servers": [ "10.0.0.41", "129.197.152.164" ], " ↵
  ↵ mac_address": "7C:E1:FF:1B:F7:17", "netmask": "255.0.0.0" }
```

[Browse more samples](#)

5.1.1 Online

sum (boolean)	network/wired/online/
Flag indicating the interface online status	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant true	Online	The interface is online
constant false	Offline	The interface is offline

Sample JS request read command:

```
request.get ({url: "network/wired/online/"}, function (error, response, body) { console. ↵
  ↵ log (body) });
```

⇒

```
true
```

Sample CLI read command:

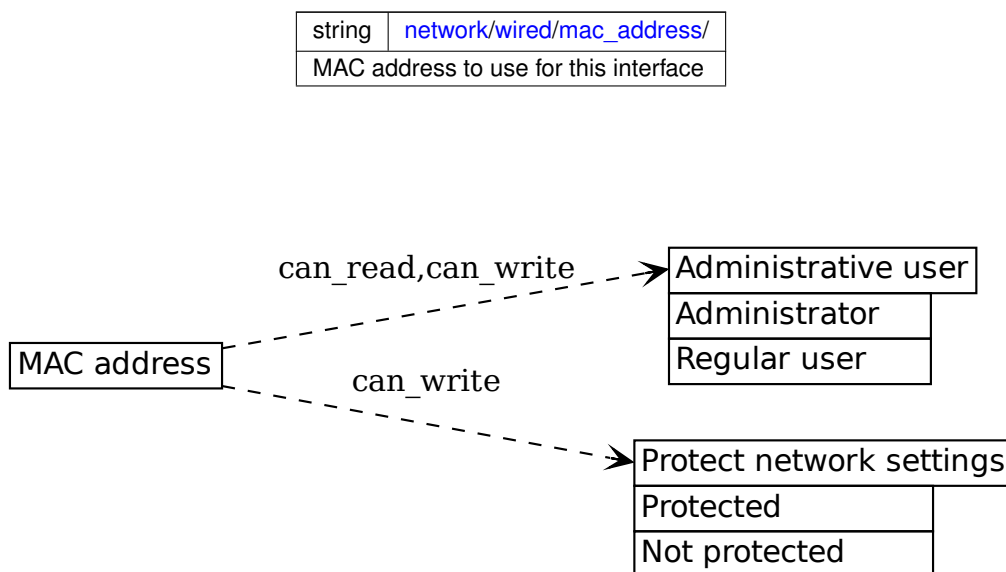
```
uom get "network/wired/online"
```

⇒

```
false
```

[Browse more samples](#)

5.1.2 MAC address



The value is subject to the following constraints: [the value](#) matches $\wedge([0-9A-Fa-f]{2}:){5}[0-9A-Fa-f]{2}\$$

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample JS request write command:

```
request.put ({url:"network/wired/mac_address/",body:"7C:E1:FF:AE:36:09"});
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/network/wired/mac_address/"
```

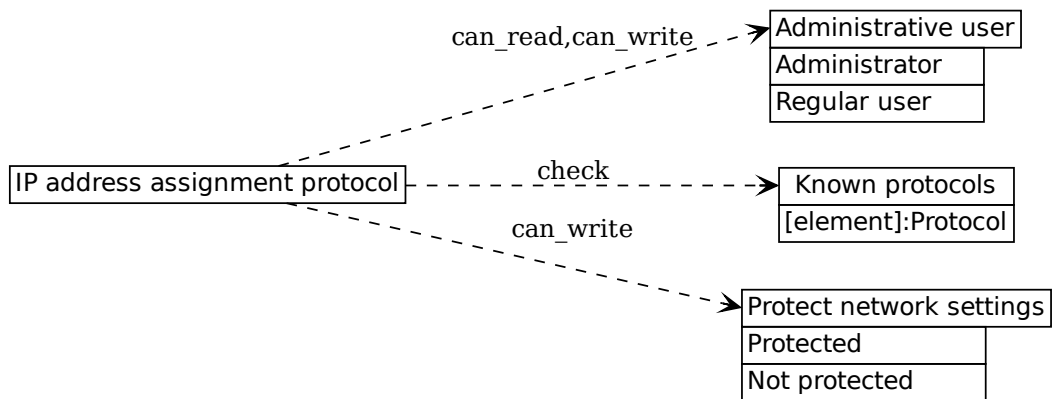
⇒

```
"7C:E1:FF:9A:39:56"
```

[Browse more samples](#)

5.1.3 IP address assignment protocol

string	network/wired/protocol/
Method for obtaining an IP address for this interface	



The value is subject to the following constraints: [known protocols\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample CLI read command:

```
uom get "network/wired/protocol"
```

⇒

```
"static"
```

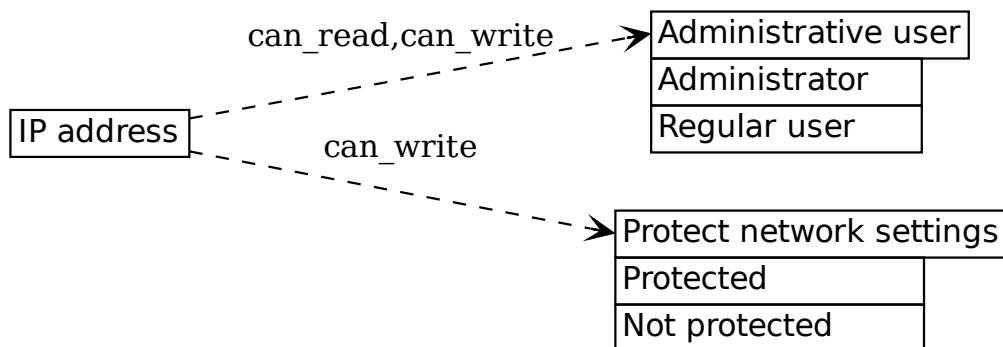
Sample uom library write command:

```
uom.network.wired.protocol="static"
```

[Browse more samples](#)

5.1.4 IP address

string	network/wired/ip_address/
IP address to use for this interface	



The value is subject to the following constraints: [the value](#) matches $\wedge((([0-9]|[1-9][0-9]|1[0-9]\{2\}|2[0-4][0-9]|25[0-5]).)\{3\}([0-9]|1[0-9][0-9]|1[0-9]\{2\}|2[0-4][0-9]|25[0-5]))\$$

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

This string can change as if by itself or indirectly because of other actions.

Changes to this string may have an effect besides setting value.

Changes to this string do not take effect immediately.

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"10.180.18.230\" \"http ↵
↵ ://192.168.0.100/restapi/network/wired/ip_address/"
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/network/wired/ip_address/"
```

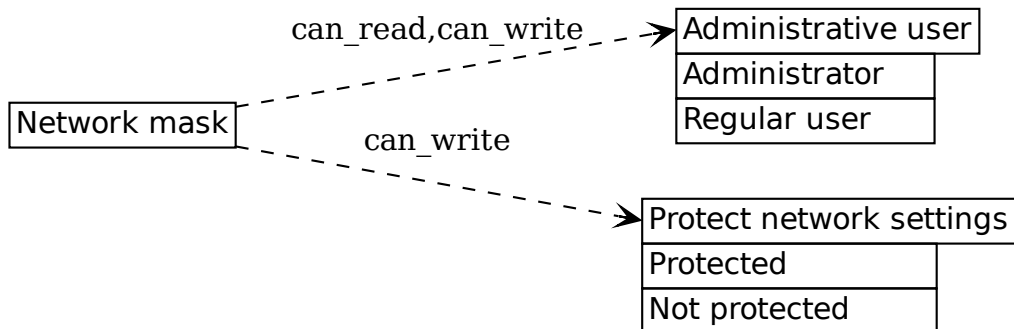
⇒

"10.15.233.148"

[Browse more samples](#)

5.1.5 Network mask

string	network/wired/netmask/
Network mask to use for this interface	



The value is subject to the following constraints: [the value](#) matches $^((2(5[42]|4[80]|24)|192|128|0).0.0.0|255.(2(5[42]|4[80]|24)|192|128|0).0.0.0|255.0.0.0|255.255.255.0))$$

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

This string can change as if by itself or indirectly because of other actions.

Changes to this string may have an effect besides setting value.

Changes to this string do not take effect immediately.

Sample `uom` library write command:

```
uom.network.wired.netmask="255.255.255.0"
```

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/network/wired/netmask/', auth= ↵
↵ auth, headers=headers).json())
```

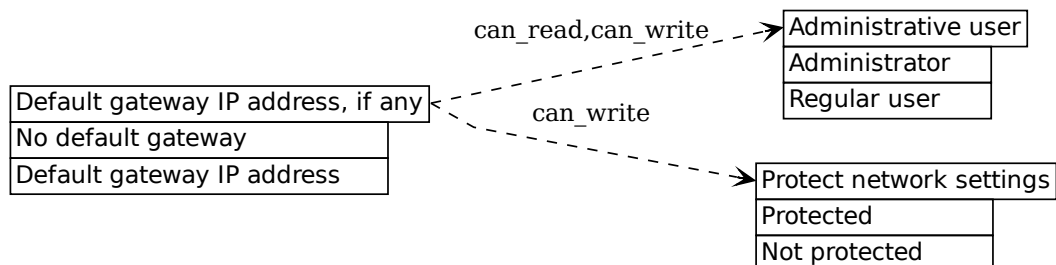
⇒

```
'255.255.255.0'
```

[Browse more samples](#)

5.1.6 Default gateway IP address, if any

sum (optional string)	network/wired/gateway/
The IP address to send packets which are not targeted to local networks, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum may have an effect besides setting value.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant null	No default gateway	Packets with nonlocal destination are dropped	
string	Default gateway IP address	The IP address to send packets which are not targeted to local networks	the value matches <code>^(([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5]).){3}([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5]))\$</code>

Sample `uom` library read command:

```
print(uom.dump(uom.network.wired.gateway))
```

⇒

```
null
```

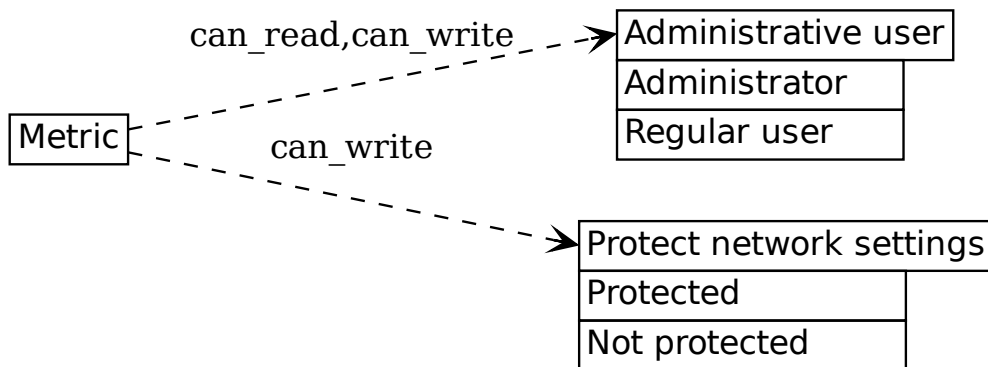
Sample CLI write command:

```
uom set "network/wired/gateway" "null"
```

[Browse more samples](#)

5.1.7 Metric

number	network/wired/metric/
Cost associated with sending packets over this interface	



The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater or equal to 0
- [the value](#) is less or equal to 4294967295

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This number represents a value in persistent storage.

Changes to this number do not take effect immediately.

Sample uom library read command:

```
print(uom.dump(uom.network.wired.metric))
```

⇒

```
{ }
```

Sample CLI write command:

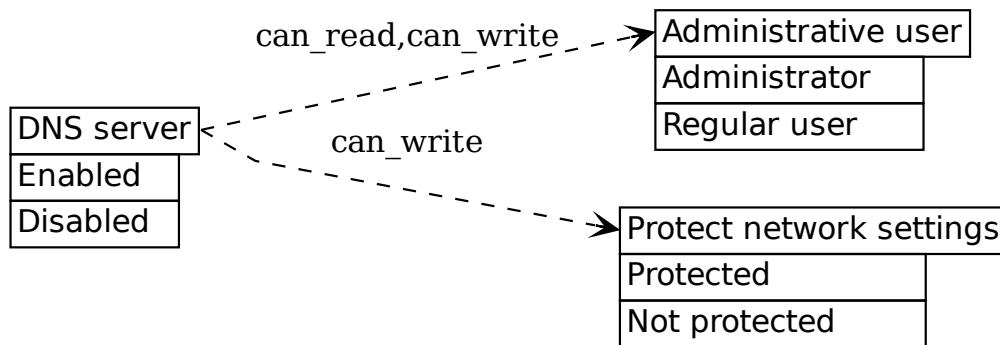
```
uom set "network/wired/metric" "[ ]"
```

[Browse more samples](#)

See also [Wired network data: DNS servers](#)

5.1.8 DNS server

sum (boolean)	network/wired/serve_dns/
Respond to DNS queries	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI write command:

```
uom set "network/wired/serve_dns" "true"
```

Sample uom library read command:

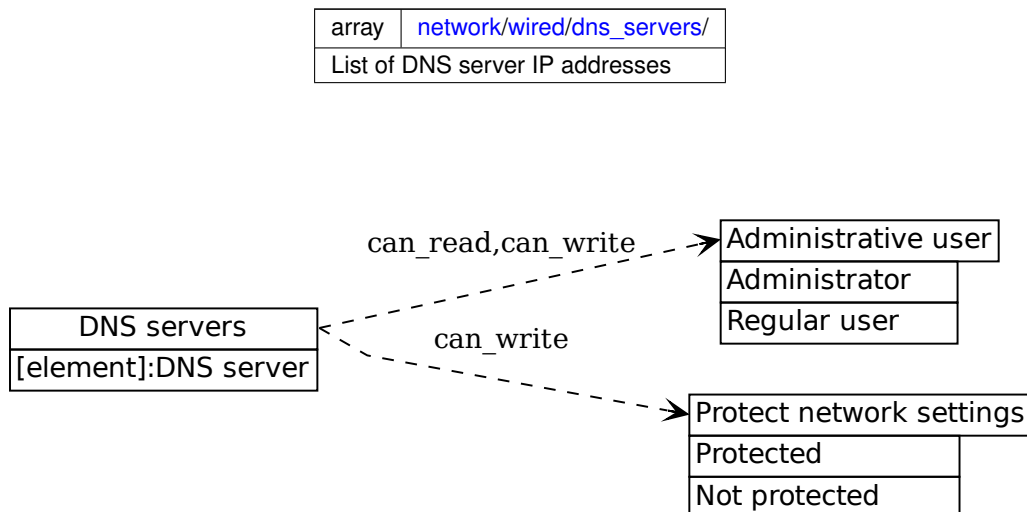
```
print(uom.dump(uom.network.wired.serve_dns))
```

⇒

```
true
```

[Browse more samples](#)

5.2 Wired network data: DNS servers



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

This array can change as if by itself or indirectly because of other actions.

Changes to this array may have an effect besides setting value.

Changes to this array do not take effect immediately.

This array contains [DNS server](#) elements.

Sample uom library read command:

```
print(uom.dump(uom.network.wired.dns_servers))
```

⇒

```
{"10.0.0.4", "200.197.157.53", "38.40.78.242"}
```

Sample JS request read command:

```
request.get({url:"network/wired/dns_servers/"},function(error,response,body) {  
    ↪ console.log(body)});
```

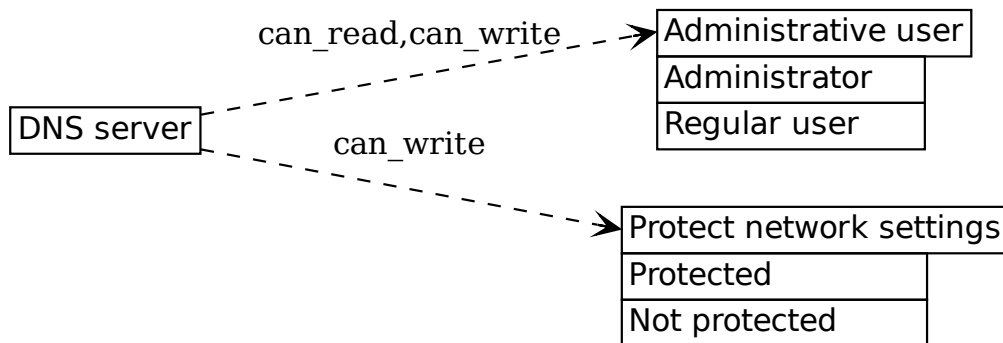
⇒

```
[]
```

[Browse more samples](#)

5.2.1 DNS server

string	network/wired/dns_servers/N/
DNS server IP address	



The value is subject to the following constraints: [the value](#) matches `^((([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]).){3}([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]))$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

This string can change as if by itself or indirectly because of other actions.

Changes to this string may have an effect besides setting value.

Changes to this string do not take effect immediately.

Sample `curl` deletion command (note that `:dns_server_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X DELETE -H "Accept: application/json" \
  "http://192.168.0.100/restapi/network/wired/dns_servers/:dns_server_index" \
  /
```

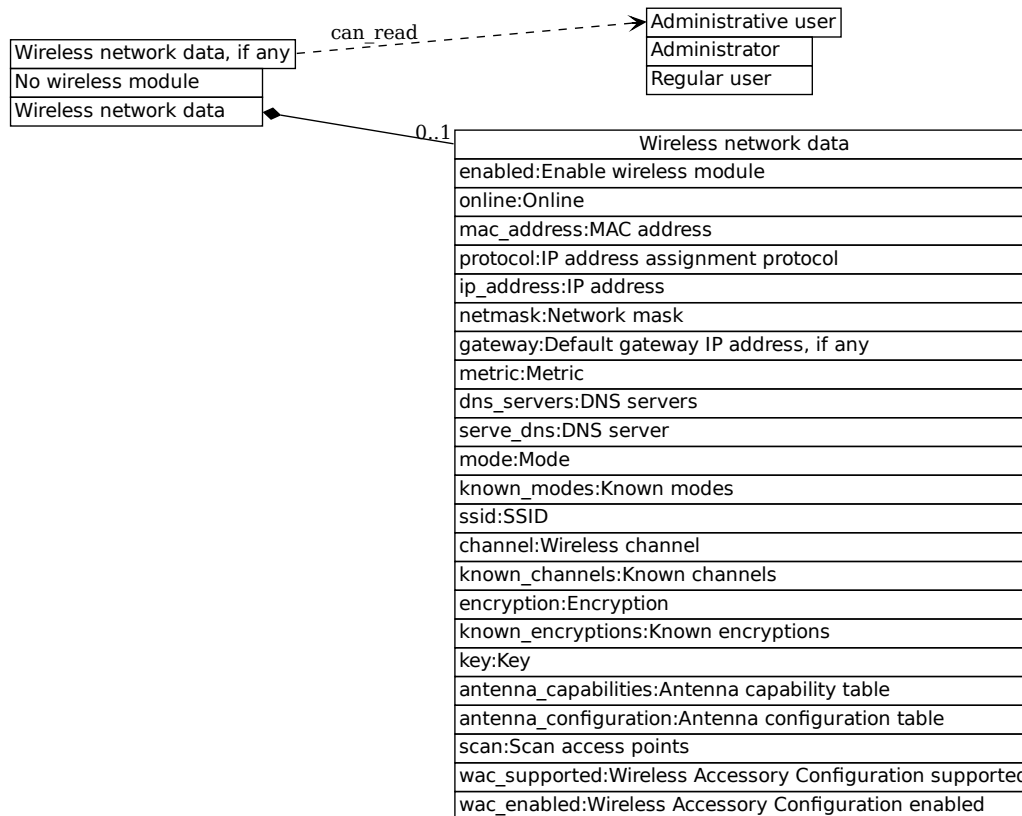
Sample `uom` library write command (note that `_dns_server_index` is a variable):

```
uom.network.wired.dns_servers[_dns_server_index]="10.0.0.9"
```

[Browse more samples](#)

5.3 Wireless network data, if any

sum (optional object)	network/wireless/
Data related to wireless network state and configuration, if any	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can assume the following values:

constant null	No wireless module	The wireless module is not installed
object	Wireless network data	Data related to wireless network state and configuration

Sample JS request read command:

```
request.get({url:"network/wireless/"}, function(error, response, body) {console.log( ↵
  ↵ body) });
```

⇒

<...>

Sample requests read command:

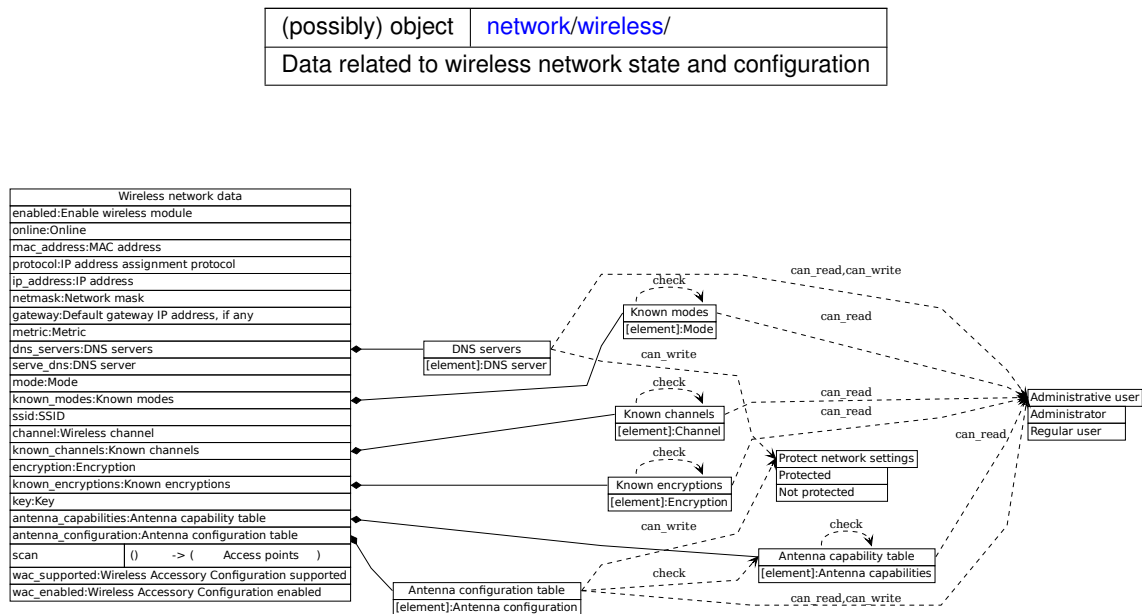
```
print(requests.get('http://192.168.0.100/restapi/network/wireless/', auth=auth, ↵
  ↵ headers=headers).json())
```

⇒

< . . . >

[Browse more samples](#)

5.3.1 Wireless network data



This object contains the following items:

enabled	Enable wireless module
online	Online
mac_address	MAC address
protocol	IP address assignment protocol
ip_address	IP address
netmask	Network mask
gateway	Default gateway IP address, if any
metric	Metric
dns_servers	DNS servers
serve_dns	DNS server
mode	Mode
known_modes	Known modes
ssid	SSID
channel	Wireless channel
known_channels	Known channels
encryption	Encryption
known_encryptions	Known encryptions
key	Key
antenna_capabilities	Antenna capability table
antenna_configuration	Antenna configuration table
scan	Scan access points
wac_supported	Wireless Accessory Configuration supported
wac_enabled	Wireless Accessory Configuration enabled

[Browse more samples](#)

See also [Wireless network data: Enable wireless module](#)

See also [Wireless network data: Online](#)

See also [Wireless network data: MAC address](#)

See also [Wireless network data: IP address assignment protocol](#)

See also [Wireless network data: IP address](#)

See also [Wireless network data: Network mask](#)

See also [Wireless network data: Default gateway IP address, if any](#)

See also [Wireless network data: Metric](#)

See also [Wireless network data: DNS servers](#)

See also [Wireless network data: DNS server](#)

See also [Wireless network data: Mode](#)

See also [Wireless network data: Known modes](#)

See also [Wireless network data: SSID](#)

See also [Wireless network data: Wireless channel](#)

See also [Wireless network data: Known channels](#)

See also [Wireless network data: Encryption](#)

See also [Wireless network data: Known encryptions](#)

See also [Wireless network data: Key](#)

See also [Wireless network data: Antenna capability table](#)

See also [Wireless network data: Antenna configuration table](#)

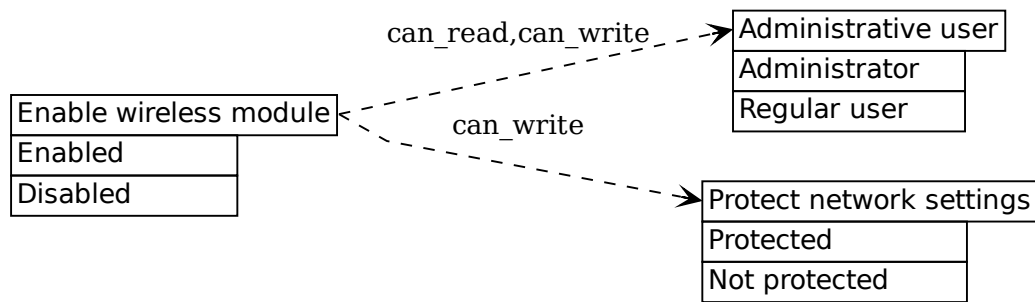
See also [Wireless network data: Scan access points](#)

See also [Wireless network data: Wireless Accessory Configuration supported](#)

See also [Wireless network data: Wireless Accessory Configuration enabled](#)

5.4 Wireless network data: Enable wireless module

sum (boolean)	network/wireless/enabled/
Flag indicating whether the wireless module is enabled	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `uom` library write command:

```
uom.network.wireless.enabled=false
```

Sample `requests` read command:

```
print (requests.get('http://192.168.0.100/restapi/network/wireless/enabled/', auth= ↵
    ↵ auth, headers=headers).json())
```

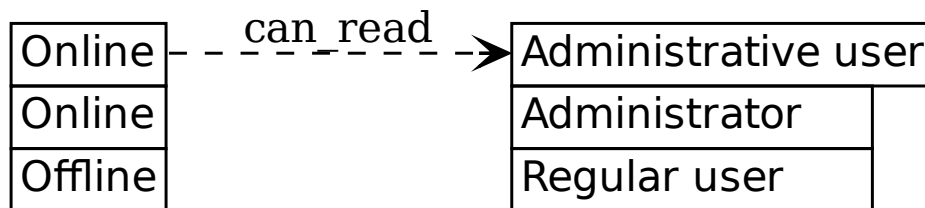
⇒

True

[Browse more samples](#)

5.5 Wireless network data: Online

sum (boolean)	network/wireless/online/
Flag indicating the interface online status	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant true	Online	The interface is online
constant false	Offline	The interface is offline

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/network/wireless/online/"
```

⇒

true

Sample JS request read command:

```
request.get({url:"network/wireless/online/"},function(error,response,body) { ↵
↵ console.log(body) });
```

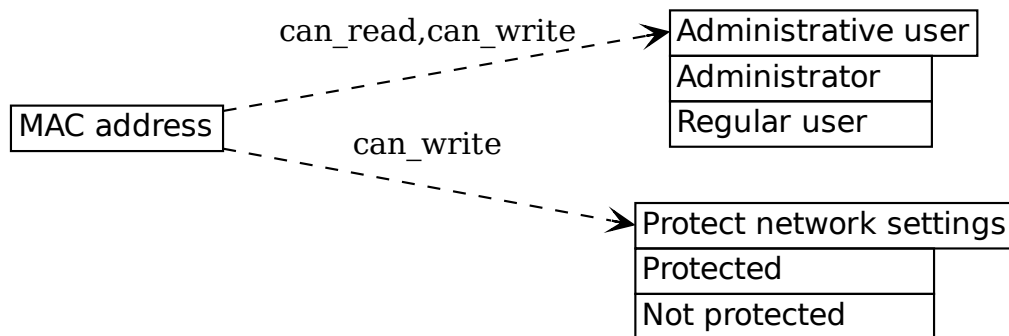
⇒

true

[Browse more samples](#)

5.6 Wireless network data: MAC address

string	network/wireless/mac_address/
MAC address to use for this interface	



The value is subject to the following constraints: the value matches $^{\wedge}([0-9A-Fa-f]{2}:){5}[0-9A-Fa-f]{2}$$

Retrieving the value is denied if not **administrative user**

Changing the value is denied if any of the following is true:

- not **administrative user**
- **protect network settings**

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/network/wireless/mac_address/',
    ↵ auth=auth, headers=headers).json())
```

⇒

```
'7C:E1:FF:6D:86:0A'
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
    ↵ restapi/network/wireless/mac_address/"
```

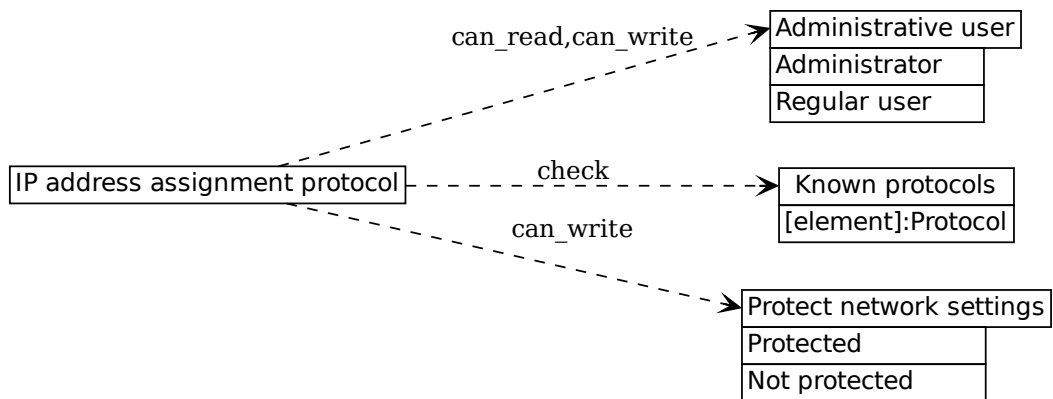
⇒

```
"7C:E1:FF:64:86:E6"
```

[Browse more samples](#)

5.7 Wireless network data: IP address assignment protocol

string	network/wireless/protocol/
Method for obtaining an IP address for this interface	



The value is subject to the following constraints: [known protocols\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/network/wireless/protocol/', auth=auth, ↵
↵ headers=headers, json='static')
```

Sample `uom` library read command:

```
print(uom.dump(uom.network.wireless.protocol))
```

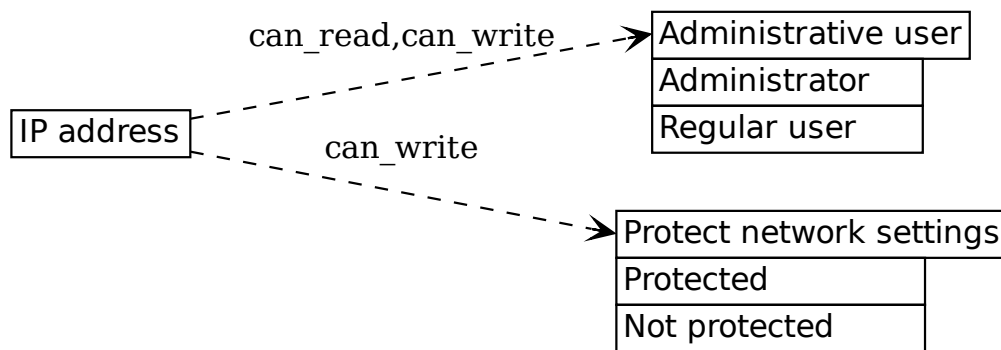
⇒

```
"static"
```

[Browse more samples](#)

5.8 Wireless network data: IP address

string	network/wireless/ip_address/
IP address to use for this interface	



The value is subject to the following constraints: [the value](#) matches `^(([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]).){3}([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

This string can change as if by itself or indirectly because of other actions.

Changes to this string may have an effect besides setting value.

Changes to this string do not take effect immediately.

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"10.251.177.210\"" ↵
↵ http://192.168.0.100/restapi/network/wireless/ip_address/"
```

Sample CLI read command:

```
uom get "network/wireless/ip_address"
```

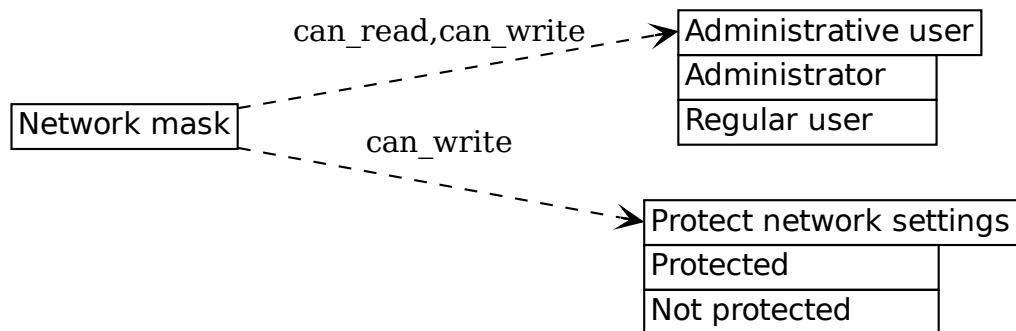
⇒

```
"192.168.34.209"
```

[Browse more samples](#)

5.9 Wireless network data: Network mask

string	network/wireless/netmask/
Network mask to use for this interface	



The value is subject to the following constraints: [the value](#) matches $^((2(5[42]|4[80]|24)|192|128|0).0.0.0|255.(2(5[42]|4[80]|24)|192|128|0).0.0.0|255.0.0.0|255.255.255.0))$$

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

This string can change as if by itself or indirectly because of other actions.

Changes to this string may have an effect besides setting value.

Changes to this string do not take effect immediately.

Sample JS request write command:

```
request.put({url:"network/wireless/netmask/",body:"255.255.255.0"});
```

Sample JS request read command:

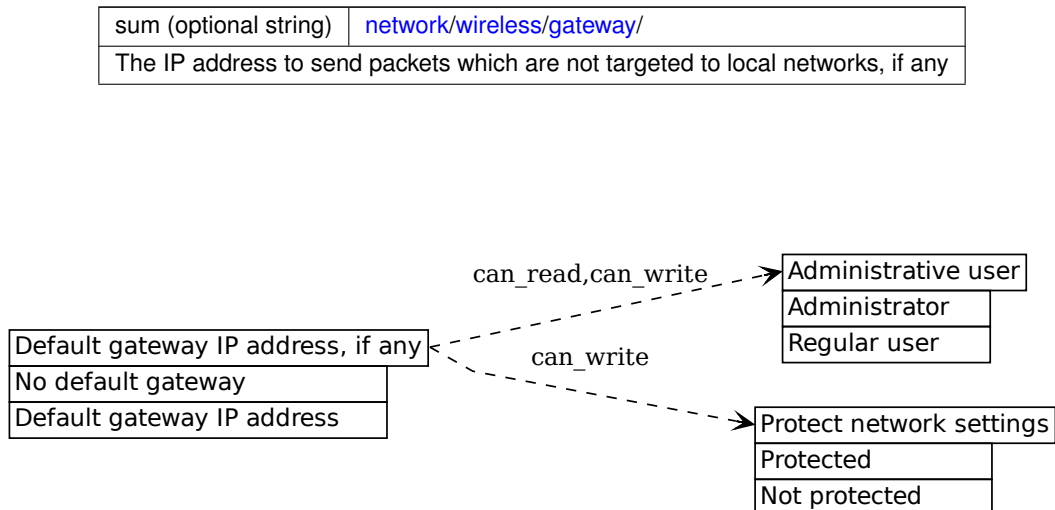
```
request.get({url:"network/wireless/netmask/"},function(error,response,body) {
    ↪ console.log(body) });
```

⇒

"255.0.0.0"

[Browse more samples](#)

5.10 Wireless network data: Default gateway IP address, if any



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum may have an effect besides setting value.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant null	No default gateway	Packets with nonlocal destination are dropped	
string	Default gateway IP address	The IP address to send packets which are not targeted to local networks	the value matches <code>^(([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5]).){3}([0-9] 1[0-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5])\$</code>

Sample `uom library write` command:

```
uom.network.wireless.gateway="10.0.0.25"
```

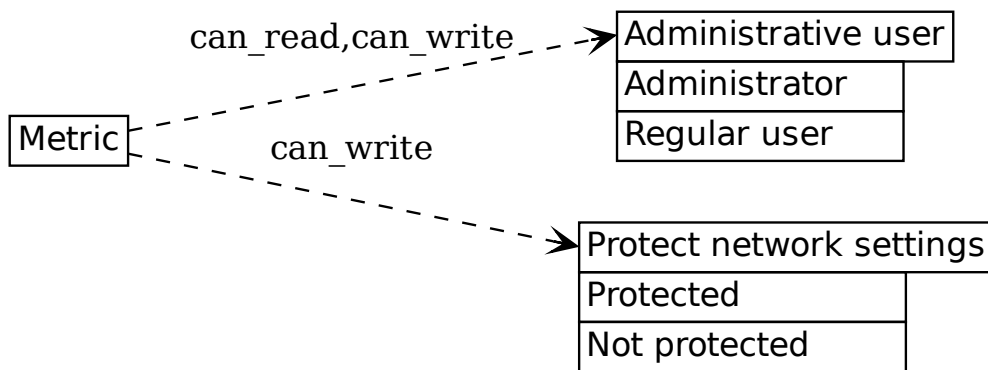
Sample `requests write` command:

```
requests.put('http://192.168.0.100/restapi/network/wireless/gateway/', auth=auth, ↵
↵ headers=headers, json='192.168.141.9')
```

[Browse more samples](#)

5.11 Wireless network data: Metric

number	network/wireless/metric/
Cost associated with sending packets over this interface	



The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0
- the value is less or equal to 4294967295

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This number represents a value in persistent storage.

Changes to this number do not take effect immediately.

Sample JS request write command:

```
request.put ({url:"network/wireless/metric/",body:[]});
```

Sample uom library read command:

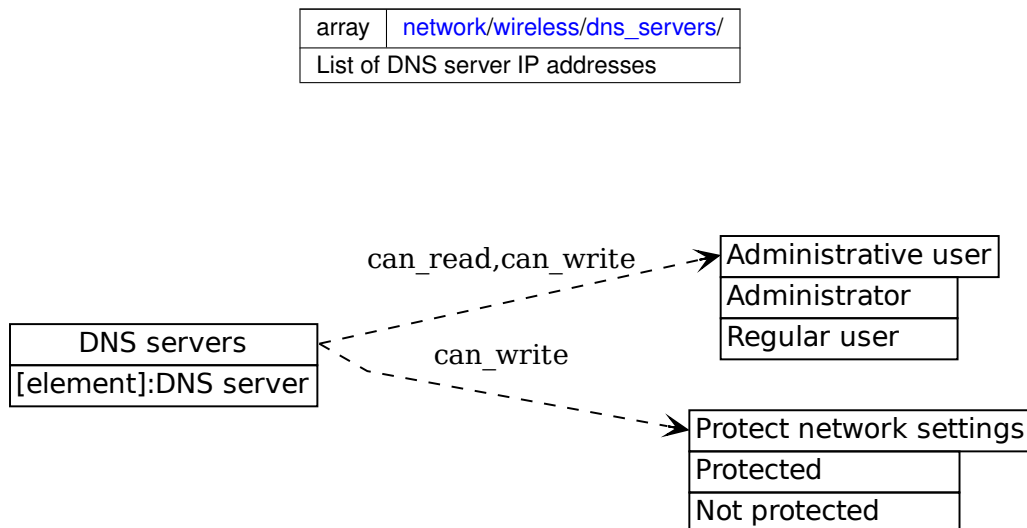
```
print (uom.dump(uom.network.wireless.metric))
```

⇒

```
{}
```

[Browse more samples](#)

5.12 Wireless network data: DNS servers



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

This array can change as if by itself or indirectly because of other actions.

Changes to this array may have an effect besides setting value.

Changes to this array do not take effect immediately.

This array contains [DNS server](#) elements.

Sample CLI write command:

```
uom set "network/wireless/dns_servers" "[\"10.0.0.23\"]"
```

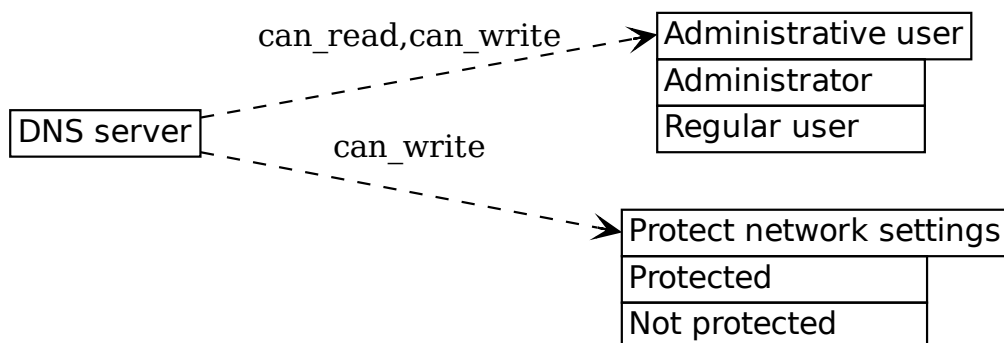
Sample uom library DNS server creation command:

```
local composite=uom.copy(uom.network.wireless.dns_servers)
uom.insert(composite,1,"249.175.236.201")
uom.network.wireless.dns_servers=composite
```

[Browse more samples](#)

5.12.1 DNS server

string	network/wireless/dns_servers/N/
DNS server IP address	



The value is subject to the following constraints: [the value](#) matches $^{\wedge}([0-9][1-9][0-9]1[0-9]\{2\}2[0-4][0-9]|25[0-5]).\{3\}([0-9][1-9][0-9]1[0-9]\{2\}2[0-4][0-9]|25[0-5])\$$

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

This string can change as if by itself or indirectly because of other actions.

Changes to this string may have an effect besides setting value.

Changes to this string do not take effect immediately.

Sample uom library write command (note that `_dns_server_index` is a variable):

```
uom.network.wireless.dns_servers[_dns_server_index]={ }
```

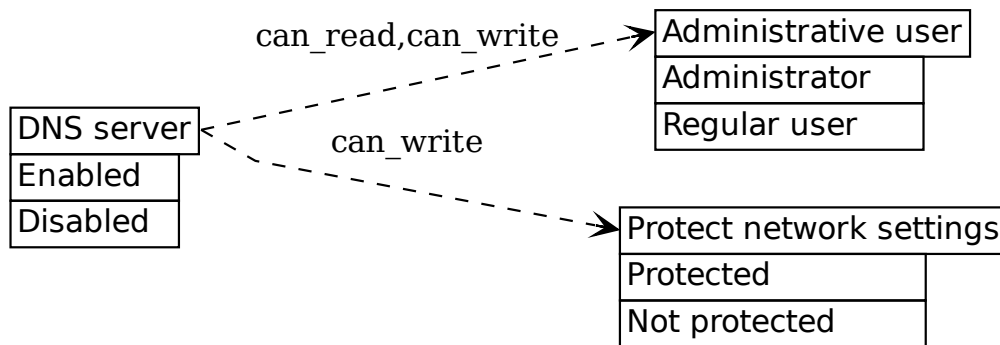
Sample JS request deletion command (note that `_dns_server_index` is a variable):

```
request.delete({url:"network/wireless/dns_servers/"+_dns_server_index.toString()
↩ ↪ +"/"});
```

[Browse more samples](#)

5.13 Wireless network data: DNS server

sum (boolean)	network/wireless/serve_dns/
Respond to DNS queries	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/network/wireless/serve_dns/',
    auth=auth, headers=headers).json())
```

⇒

True

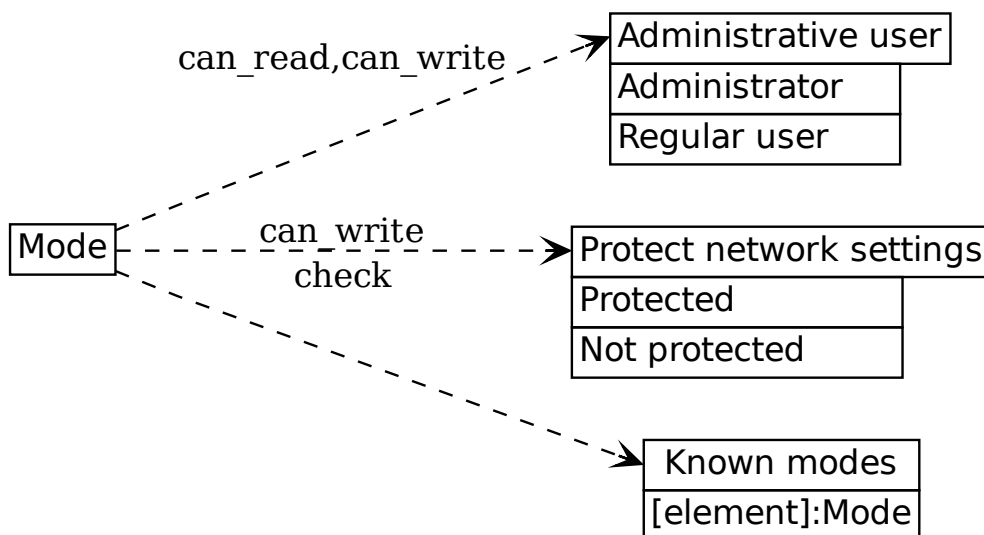
Sample `uom` library write command:

```
uom.network.wireless.serve_dns=false
```

[Browse more samples](#)

5.14 Wireless network data: Mode

string	network/wireless/mode/
Wireless module mode	



The value is subject to the following constraints: [known modes](#)[the value]

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/network/wireless/mode/', auth=auth, ↵
↵ headers=headers, json='sta')
```

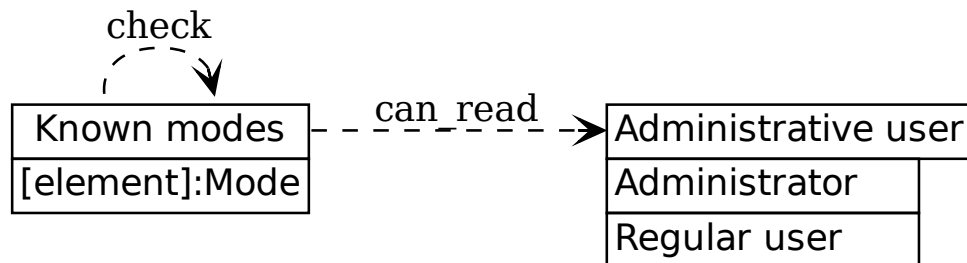
Sample JS request write command:

```
request.put({url:"network/wireless/mode/",body:"ap"});
```

[Browse more samples](#)

5.15 Wireless network data: Known modes

map	network/wireless/known_modes/
Known wireless modes	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Mode](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command:

```
uom get "network/wireless/known_modes"
```

⇒

```
{"sta":"Client","ap":"Access Point"}
```

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/network/wireless/known_modes/', ↵
↵ auth=auth,headers=headers).json())
```

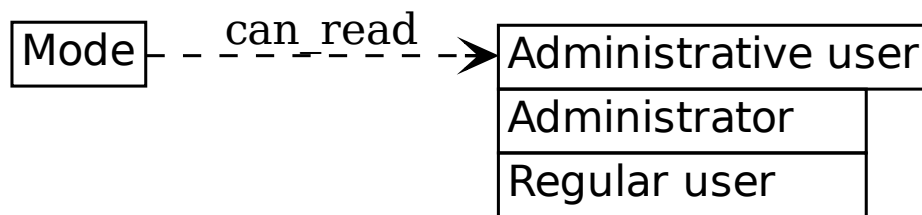
⇒

```
{'sta': 'Client', 'ap': 'Access Point'}
```

[Browse more samples](#)

5.15.1 Mode

string	network/wireless/known_modes/S/
Name of wireless mode	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample `requests` read command (note that `_mode` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/network/wireless/known_modes/' +   
↔ _mode + '/', auth=auth, headers=headers).json())
```

⇒

```
'Client'
```

Sample `uom` library read command (note that `_mode` is a variable):

```
print(uom.dump(uom.network.wireless.known_modes[_mode]))
```

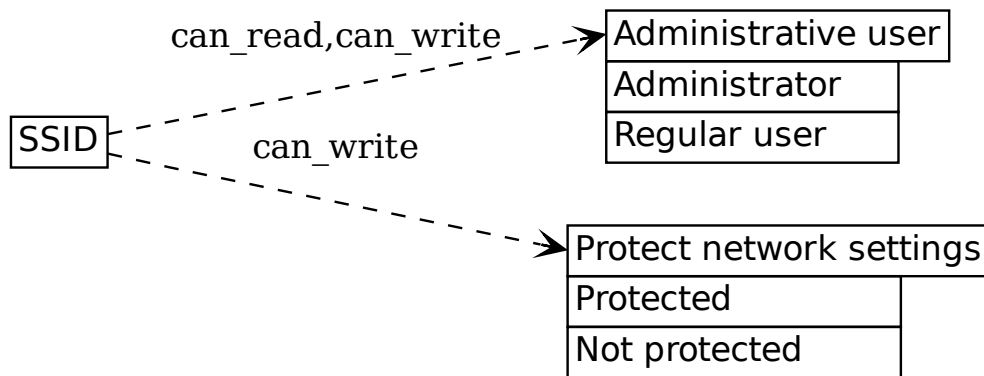
⇒

```
"Access Point"
```

[Browse more samples](#)

5.16 Wireless network data: SSID

string	network/wireless/ssid/
SSID (wireless network name) to use	



The value is subject to the following constraints: length of [the value](#) is less or equal to 32

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample uom library write command:

```
uom.network.wireless.ssid="0CXRKHik"
```

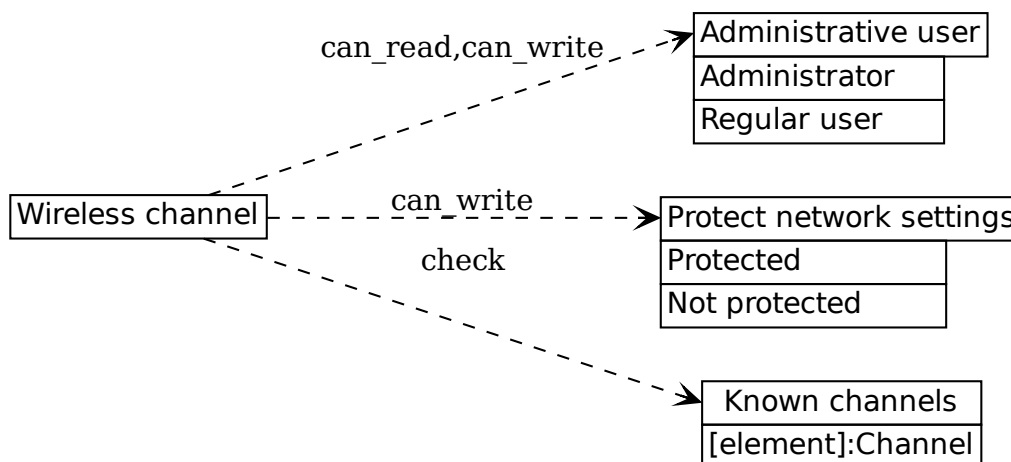
Sample CLI write command:

```
uom set "network/wireless/ssid" "\"Aqfo2\""
```

[Browse more samples](#)

5.17 Wireless network data: Wireless channel

string	network/wireless/channel/
Wireless channel to use	



The value is subject to the following constraints: [known channels\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/network/wireless/channel/', auth=auth, ↵
↵ headers=headers, json='10')
```

Sample JS request read command:

```
request.get({url:"network/wireless/channel/"}, function(error, response, body) { ↵
↵ console.log(body) });
```

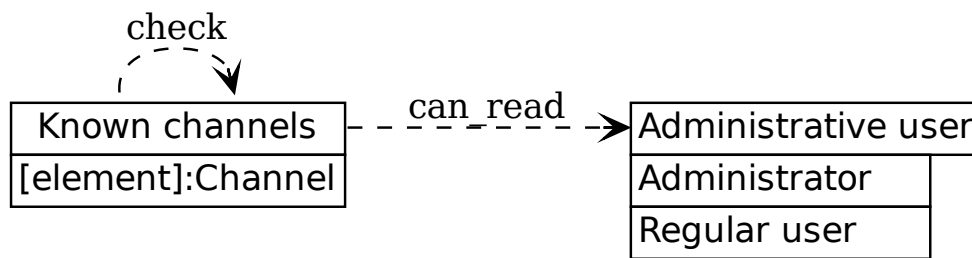
⇒

"3"

[Browse more samples](#)

5.18 Wireless network data: Known channels

map	network/wireless/known_channels/
Known wireless channels	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Channel](#) elements.

Creating elements in this collection is not supported.

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/network/wireless/known_channels ↵
↵ /', auth=auth, headers=headers).json())
```

⇒

Sample `uom` library read command:

```
print(uom.dump(uom.network.wireless.known_channels))
```

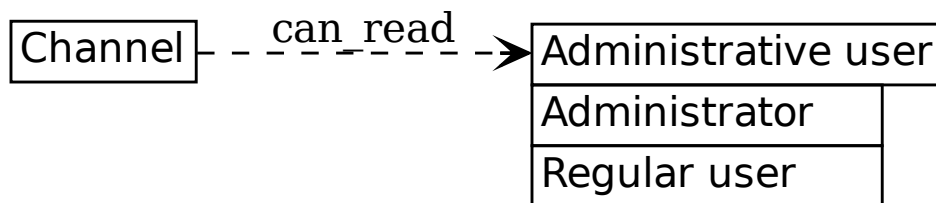
⇒

```
{["1"]="1 (2412 MHz)",["10"]="10 (2457 MHz)",["11"]="11 (2462 MHz)",["2"]="2 ↵
↵ (2417 MHz)",["3"]="3 (2422 MHz)",["4"]="4 (2427 MHz)",["5"]="5 (2432 MHz) ↵
↵ ",["6"]="6 (2437 MHz)",["7"]="7 (2442 MHz)",["8"]="8 (2447 MHz)",["9"]="9 ↵
↵ (2452 MHz)",auto="Autoselect"}
```

[Browse more samples](#)

5.18.1 Channel

string	network/wireless/known_channels/S/
Name of wireless channel	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample CLI read command (note that `channel` is a variable):

```
uom get "network/wireless/known_channels/${channel}"
```

⇒

```
"5 (2432 MHz) "
```

Sample uom library read command (note that `_channel` is a variable):

```
print(uom.dump(uom.network.wireless.known_channels[_channel]))
```

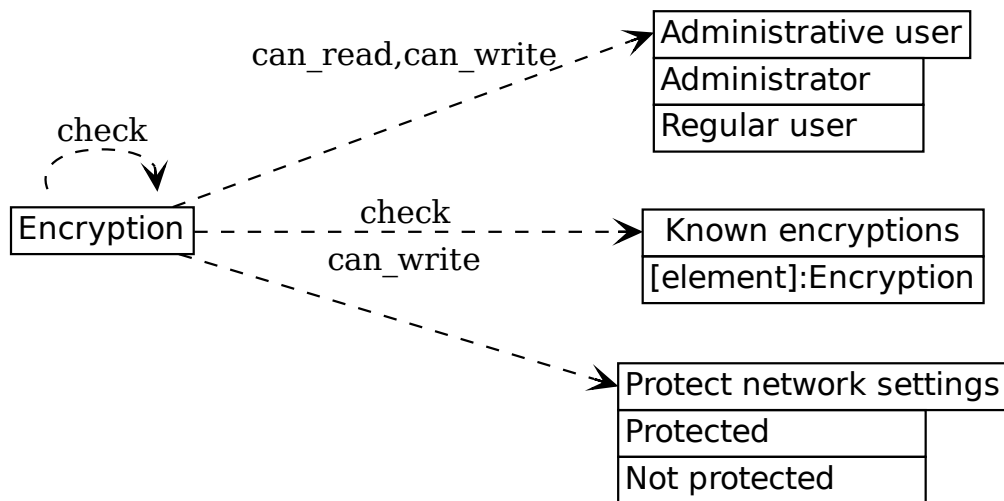
⇒

```
"7 (2442 MHz) "
```

[Browse more samples](#)

5.19 Wireless network data: Encryption

string	network/wireless/encryption/
Wireless encryption to use	



The value is subject to the following constraints: [known encryptions\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

Sample CLI read command:

```
uom get "network/wireless/encryption"
```

⇒

```
"sae"
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/network/wireless/encryption/"
```

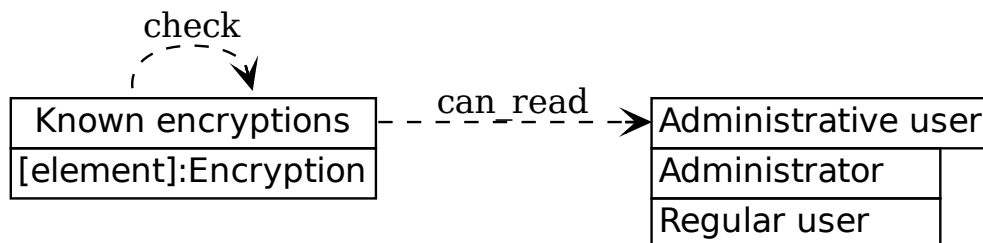
⇒

```
"sae"
```

[Browse more samples](#)

5.20 Wireless network data: Known encryptions

map	network/wireless/known_encryptions/
Known wireless encryptions	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Encryption](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command:

```
request.get({url:"network/wireless/known_encryptions/"},function(error,response,↵
↵ body){console.log(body)});
```

⇒

```
{ "sae-mixed": "WPA2 PSK/WPA3 SAE mixed mode", "psk-mixed": "WPA/WPA2 PSK mixed mode ↵
↵ ", "sae": "WPA3 SAE", "psk2": "WPA2 PSK", "psk": "WPA PSK", "none": "None" }
```

Sample uom library read command:

```
print(uom.dump(uom.network.wireless.known_encryptions))
```

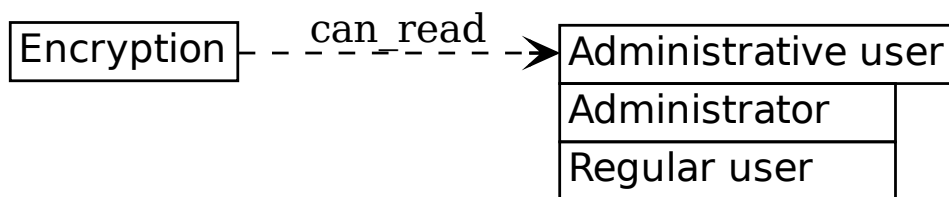
⇒

```
{ none="None", psk="WPA PSK", ["psk-mixed"]="WPA/WPA2 PSK mixed mode", psk2="WPA2 PSK ↵
↵ ", sae="WPA3 SAE", ["sae-mixed"]="WPA2 PSK/WPA3 SAE mixed mode" }
```

[Browse more samples](#)

5.20.1 Encryption

string	network/wireless/known_encryptions/S/
Name of wireless encryption	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample JS request read command (note that `_encryption` is a variable):

```
request.get({url:"network/wireless/known_encryptions/"+_encryption+"/"},function(↵
    ↵ error,response,body) {console.log(body)});
```

⇒

```
"WPA2 PSK/WPA3 SAE mixed mode"
```

Sample requests read command (note that `_encryption` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/network/wireless/↵
    ↵ known_encryptions/'+_encryption+'/',auth=auth,headers=headers).json())
```

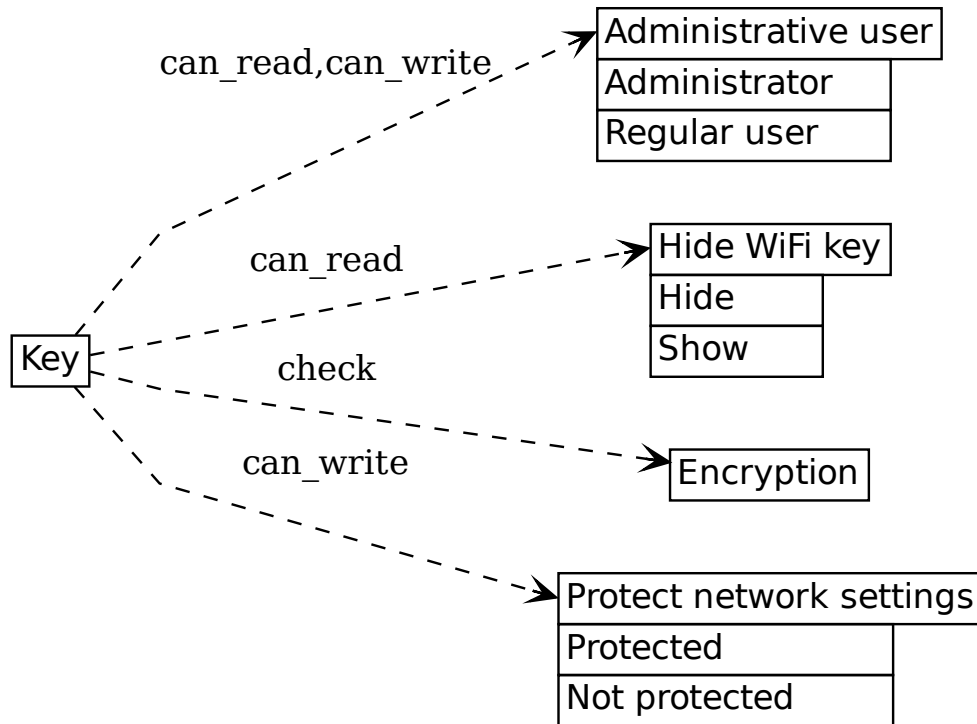
⇒

```
'WPA PSK'
```

[Browse more samples](#)

5.21 Wireless network data: Key

string	network/wireless/key/
Encryption key	



The value is subject to the following constraints: any of the following is true:

- all of the following is true:
 - length of **the value** is greater or equal to 8
 - length of **the value** is less or equal to 63
- **encryption** is equal to none

Retrieving the value is denied if any of the following is true:

- not **administrative user**
- **hide WiFi key**

Changing the value is denied if any of the following is true:

- not **administrative user**
- **protect network settings**

This string represents a value in persistent storage.

Changes to this string do not take effect immediately.

This string should be displayed in a secure manner.

Sample `requests read` command:

```
print(requests.get('http://192.168.0.100/restapi/network/wireless/key/', auth=auth ↵
↵ , headers=headers).json())
```

⇒

```
'6qLq-,.p$ndBZqJi9Z5^qiArx69bP8l*LifUAKI$glT.4)fbp&'
```

Sample JS request read command:

```
request.get({url:"network/wireless/key/"},function(error,response,body) {console. ↵
↵ log(body)});
```

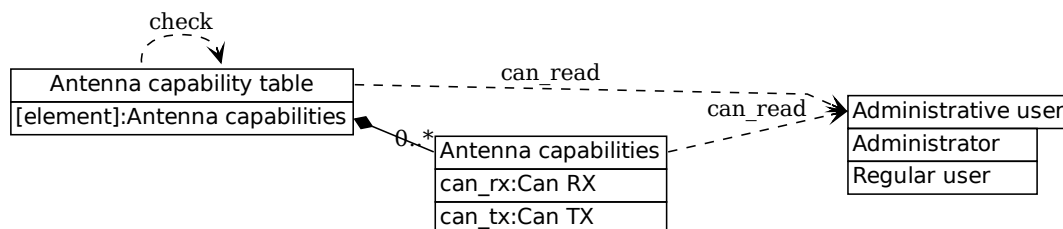
⇒

```
"gemVN!q^muYdhE-FYOYdWcliGAN81pQDs (xApdnPR7Xj"
```

[Browse more samples](#)

5.22 Wireless network data: Antenna capability table

array	network/wireless/antenna_capabilities/
Properties of RF antennas	



Retrieving the value is denied if not [administrative user](#)

This array is composite, i.e. is modified as a whole.

This array does not support direct modification.

This array contains [Antenna capabilities](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command:

```
uom get "network/wireless/antenna_capabilities"
```

⇒

```
[{"can_tx":false,"can_rx":true}]
```

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/network/wireless/ ↵
↵ antenna_capabilities/', auth=auth, headers=headers).json())
```

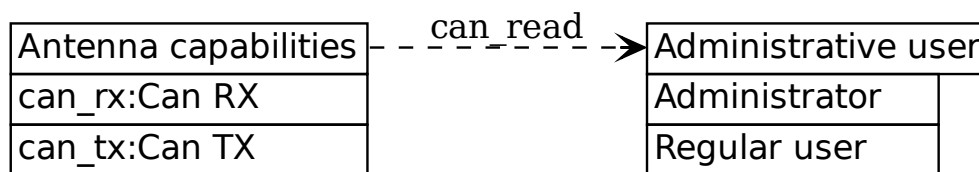
⇒

```
[{'can_tx': False, 'can_rx': True}, {'can_tx': False, 'can_rx': True}, {'can_tx': ↵
↵ False, 'can_rx': True}, {'can_tx': True, 'can_rx': True}, {'can_tx': False ↵
↵ , 'can_rx': False}, {'can_tx': True, 'can_rx': True}]
```

[Browse more samples](#)

5.22.1 Antenna capabilities

object	network/wireless/antenna_capabilities/N/
Properties of an RF antenna	



Retrieving the value is denied if not [administrative user](#)

This object is a part of a composite value which is modified as a whole.

This object does not support direct modification.

This object contains the following items:

can_rx	Can RX
can_tx	Can TX

Sample uom library read command (note that `_antenna_capabilities_index` is a variable):

```
print(uom.dump(uom.network.wireless.antenna_capabilities[ ↵
↵ _antenna_capabilities_index]))
```

⇒

```
{can_rx=false, can_tx=false}
```

Sample requests read command (note that `_antenna_capabilities_index` is a variable):


```
print(requests.get('http://192.168.0.100/restapi/network/wireless/ ↵
    ↵ antenna_capabilities/'+str(_antenna_capabilities_index)+'/',auth=auth, ↵
    ↵ headers=headers).json())
```

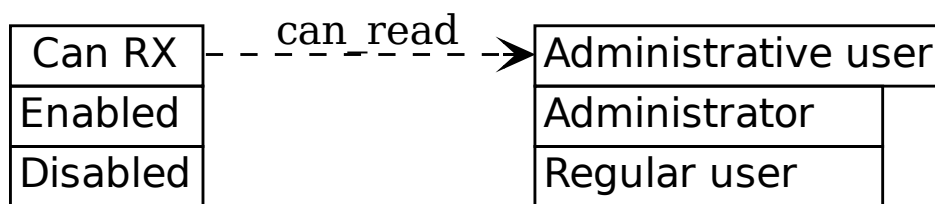
⇒

```
{'can_tx': True, 'can_rx': False}
```

[Browse more samples](#)

sum (boolean)	network/wireless/antenna_capabilities/N/can_rx/
This antenna supports reception	

5.22.1.1 Can RX



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `curl` read command (note that `:antenna_capabilities_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/network/wireless/antenna_capabilities/:antenna_capabilities_index/ ↵
    ↵ can_rx/"
```

⇒

```
false
```

Sample JS `request` read command (note that `_antenna_capabilities_index` is a variable):

```
request.get({url:"network/wireless/antenna_capabilities/"+
    ↪ _antenna_capabilities_index.toString()+"/can_rx/"},function(error,response,
    ↪ body) {console.log(body)});
```

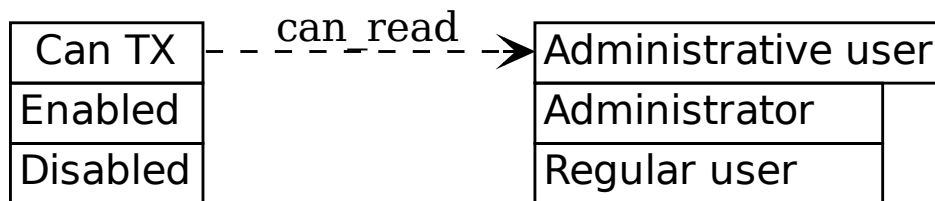
⇒

true

[Browse more samples](#)

sum (boolean)	network/wireless/antenna_capabilities/N/can_tx/
This antenna supports transmission	

5.22.1.2 Can TX



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample requests read command (note that `_antenna_capabilities_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/network/wireless/
    ↪ antenna_capabilities/'+str(_antenna_capabilities_index)+'/can_tx/',auth=
    ↪ auth,headers=headers).json())
```

⇒

False

Sample uom library read command (note that `_antenna_capabilities_index` is a variable):

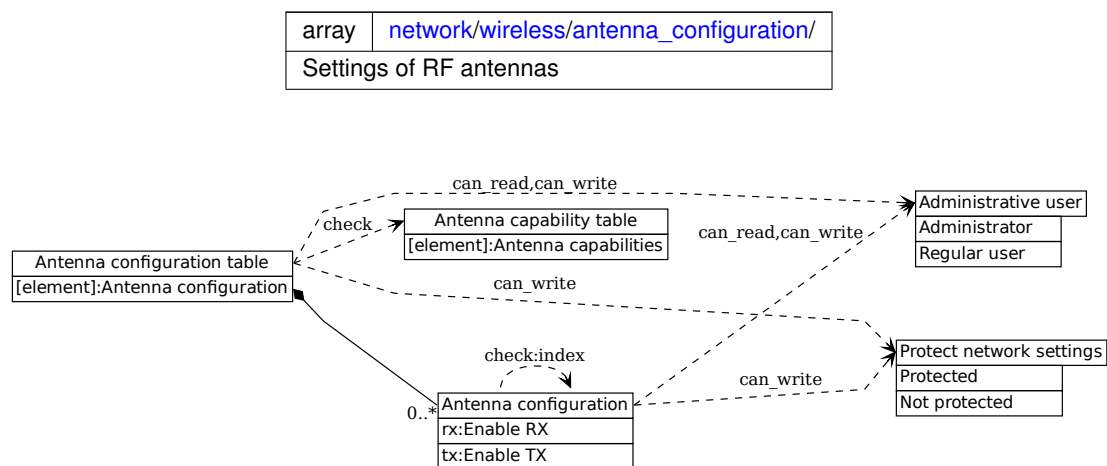
```
print(uom.dump(uom.network.wireless.antenna_capabilities[ ↵
    ↵ _antenna_capabilities_index].can_tx))
```

```
⇒
```

```
true
```

[Browse more samples](#)

5.23 Wireless network data: Antenna configuration table



The value is subject to the following constraints: length of [the value](#) is equal to length of [antenna capability table](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

Changes to this array do not take effect immediately.

This array contains [Antenna configuration](#) elements.

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
    ↵ json" -H "Accept: application/json" --data-binary "[{\\"rx\\":true,\\"tx\\": ↵
    ↵ false},{\\"rx\\":false,\\"tx\\":false},{\\"rx\\":false,\\"tx\\":false},{\\"rx\\": ↵
    ↵ false,\\"tx\\":false},{\\"rx\\":false,\\"tx\\":false},{\\"rx\\":false,\\"tx\\":true ↵
    ↵ },{\\"rx\\":false,\\"tx\\":false},{\\"rx\\":false,\\"tx\\":false},{\\"rx\\":true,\\"tx ↵
    ↵ \":false}]" "http://192.168.0.100/restapi/network/wireless/ ↵
    ↵ antenna_configuration/"
```

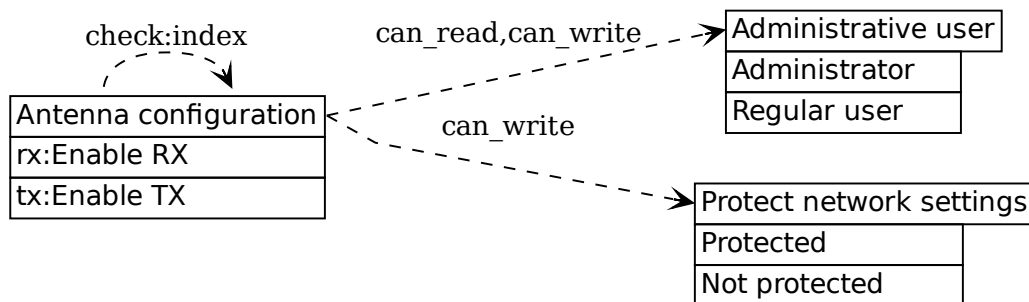
Sample `uom` library antenna configuration creation command:

```
local composite=uom.copy(uom.network.wireless.antenna_configuration)
uom.insert(composite,1,{rx=false,tx=false})
uom.network.wireless.antenna_configuration=composite
```

[Browse more samples](#)

5.23.1 Antenna configuration

object	network/wireless/antenna_configuration/N/
Configuration of an RF antenna	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This object is a part of a composite value which is modified as a whole.

This object represents a value in persistent storage.

Changes to this object do not take effect immediately.

This object contains the following items:

rx	Enable RX
tx	Enable TX

Sample uom library write command (note that `_antenna_configuration_index` is a variable):

```
uom.network.wireless.antenna_configuration[_antenna_configuration_index]={rx= ↵
↵ false,tx=true}
```

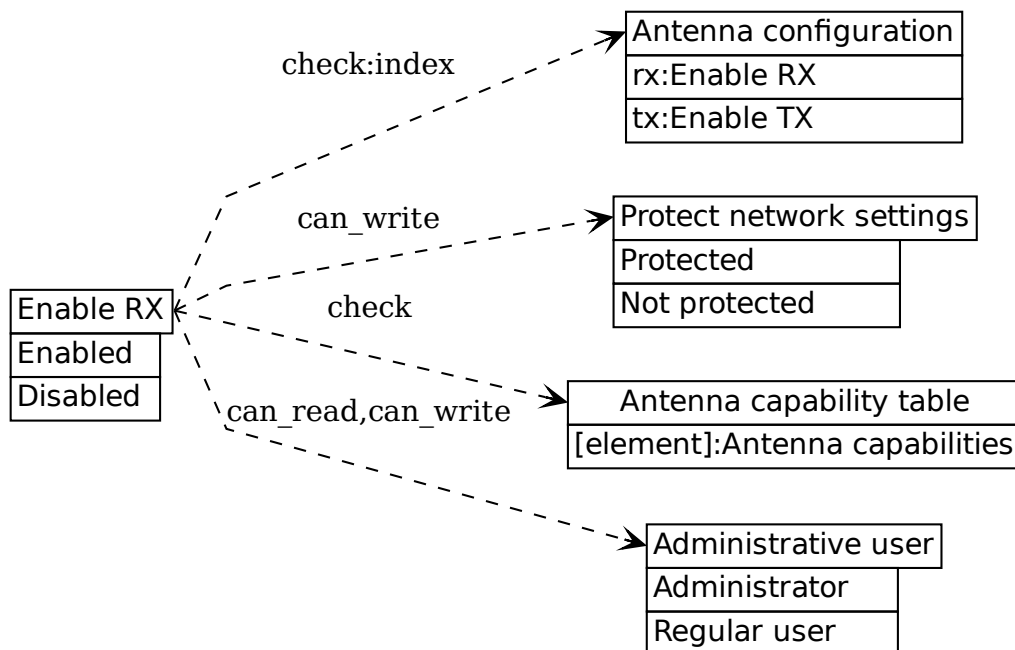
Sample curl write command (note that `:antenna_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary '{"rx\":false,\"tx\": ↵
↵ false}' "http://192.168.0.100/restapi/network/wireless/ ↵
↵ antenna_configuration/:antenna_configuration_index/"
```

[Browse more samples](#)

sum (boolean)	network/wireless/antenna_configuration/N/rx/
This antenna is to be used for reception	

5.23.1.1 Enable RX



The value is subject to the following constraints: any of the following is true:

- not [the value](#)
- [antenna capability table](#)[index of antenna configuration].can_rx

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample uom library write command (note that `_antenna_configuration_index` is a variable):

```
uom.network.wireless.antenna_configuration[_antenna_configuration_index].rx=false
```

Sample CLI read command (note that `antenna_configuration_index` is a variable):

```
uom get "network/wireless/antenna_configuration/${antenna_configuration_index}/rx" ↩
↪ "
```

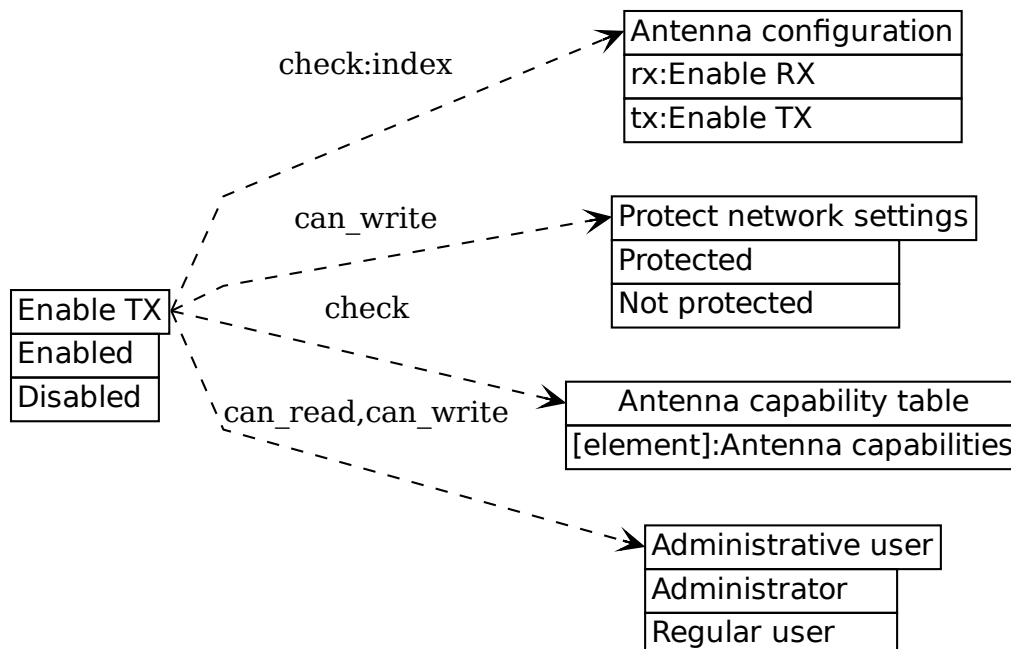
⇒

true

[Browse more samples](#)

sum (boolean)	network/wireless/antenna_configuration/N/tx/
This antenna is to be used for transmission	

5.23.1.2 Enable TX



The value is subject to the following constraints: any of the following is true:

- not [the value](#)
- [antenna capability table](#)[index of antenna configuration].can_tx

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI read command (note that `antenna_configuration_index` is a variable):

```
uom get "network/wireless/antenna_configuration/${antenna_configuration_index}/tx" ↩ ↪
```

⇒

```
true
```

Sample curl read command (note that `:antenna_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↩ ↪
↩ ↪ restapi/network/wireless/antenna_configuration/:antenna_configuration_index ↩ ↪
↩ ↪ /tx/"
```

⇒

```
false
```

[Browse more samples](#)

5.24 Access points: Access point

object	network/wireless/scan/results: 1/N/
Status and configuration of a nearby access point	

This object does not correspond to an actual resource.

This object contains the following items:

channel	Wireless channel
ssid	SSID
encryption	Encryption
signal	Signal level

5.24.1 Wireless channel

string	network/wireless/scan/results: 1/N/channel/
Wireless channel of the access point	

The value is subject to the following constraints: [invalid reference ../../../../known_channels][[the value](#)]

This string does not correspond to an actual resource.

5.24.2 SSID

string	network/wireless/scan/results: 1/N/ssid/
SSID (wireless network name) of the access point	

The value is subject to the following constraints: length of [the value](#) is less or equal to 32

This string does not correspond to an actual resource.

5.24.3 Encryption

string	network/wireless/scan/results: 1/N/encryption/
Wireless encryption used by the access point	

The value is subject to the following constraints: [invalid reference ../../../../known_encryptions][[the value](#)]

This string does not correspond to an actual resource.

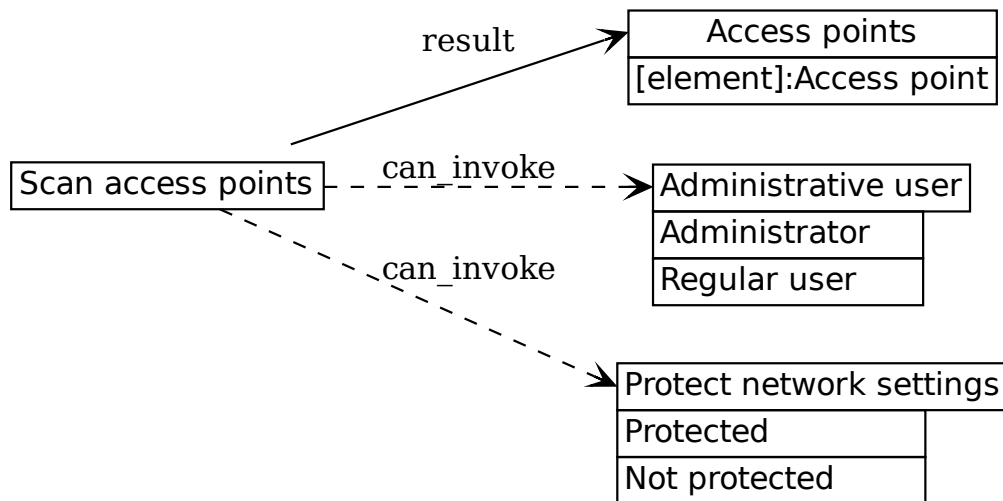
5.24.4 Signal level

number	network/wireless/scan/results: 1/N/signal/
Access point reception signal level, in dBm	

This number does not correspond to an actual resource.

5.25 Wireless network data: Scan access points

call	network/wireless/scan/
Scan and report nearby access points	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Access points: array of "object "Access point""

Sample JS request invocation:

```
request.post({url:"network/wireless/scan/",body:[]});
```

⇒

```
[{"signal":-20,"encryption":"psk2","ssid":"luaughW","channel":"11"}, {"signal": ←
  ↳ "-15","encryption":"psk","ssid":"L-pEN","channel":"8"}, {"signal":-44," ←
  ↳ encryption":"psk","ssid":"6MEkmX2","channel":"2"}]
```

Sample requests invocation:

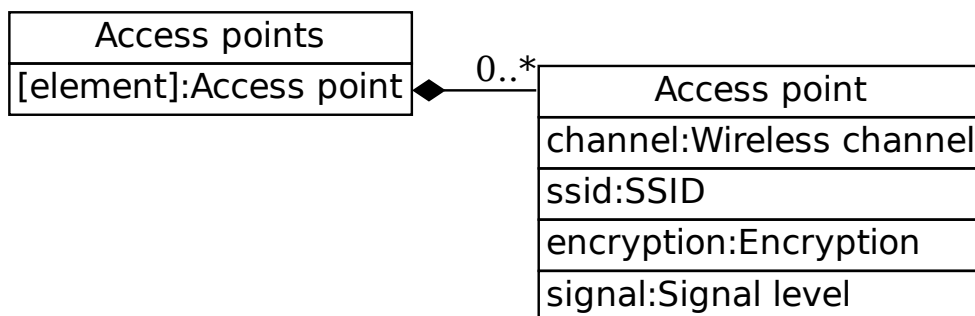
```
print(requests.post('http://192.168.0.100/restapi/network/wireless/scan/',auth= ←
  ↳ auth,headers=headers,json={}).json())
```

⇒

[Browse more samples](#)

5.25.1 Access points

array	network/wireless/scan/results: 1/
List of access points	



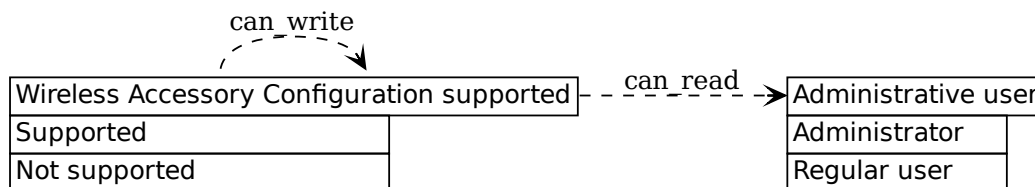
This array does not correspond to an actual resource.

This array contains [Access point](#) elements.

See also [Access points: Access point](#)

5.26 Wireless network data: Wireless Accessory Configuration supported

sum (boolean)	network/wireless/wac_supported/
Flag indicating device support for Wireless Accessory Configuration	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can assume the following values:

constant true	Supported	The device supports WAC
constant false	Not supported	The device does not support WAC

Sample CLI read command:

```
uom get "network/wireless/wac_supported"
```

⇒

```
true
```

Sample requests read command:

```
print (requests.get('http://192.168.0.100/restapi/network/wireless/wac_supported ↵
↵ /', auth=auth, headers=headers).json())
```

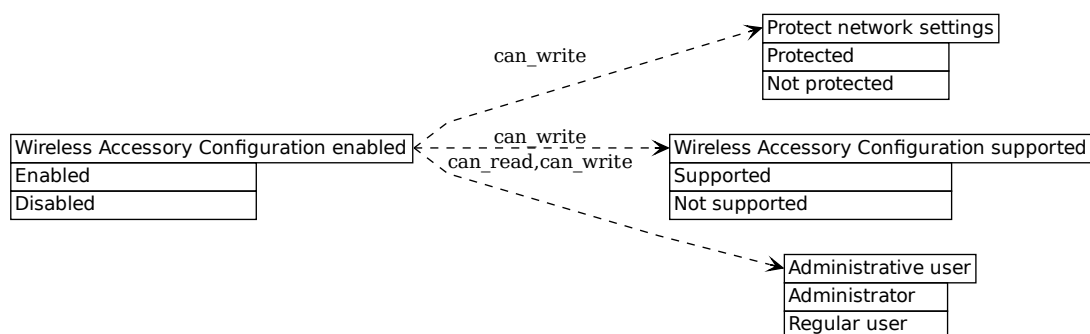
⇒

```
False
```

[Browse more samples](#)

5.27 Wireless network data: Wireless Accessory Configuration enabled

sum (boolean)	network/wireless/wac_enabled/
Flag indicating whether Wireless Accessory Configuration is currently active (any manual changes automatically disable it)	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- any of the following is true:
 - [protect network settings](#)

- not [wireless Accessory Configuration](#) supported

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `uom` library write command:

```
uom.network.wireless.wac_enabled=true
```

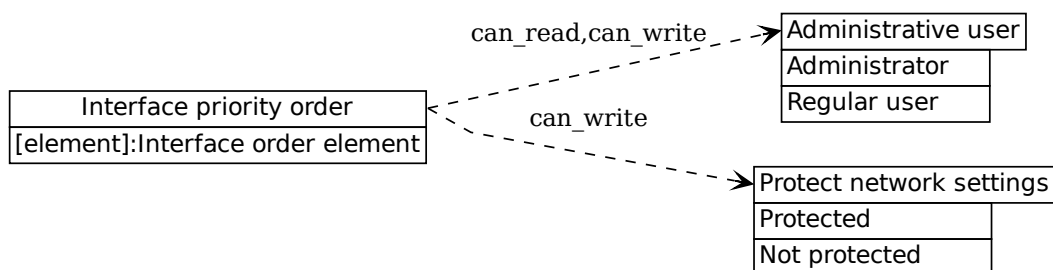
Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "false" "http ↵
↵ ://192.168.0.100/restapi/network/wireless/wac_enabled/"
```

[Browse more samples](#)

5.28 Interface priority order

array	network/interface_order/
The order of preference in which interfaces will be used	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

Changes to this array do not take effect immediately.

This array contains [Interface order element](#) elements.

Sample `requests` interface order element creation command:

```
requests.post('http://192.168.0.100/restapi/network/interface_order/', auth=auth, ↵
↵ headers=headers, json={})
```

Sample CLI write command:

```
uom set "network/interface_order" "[\"wired\"]"
```

[Browse more samples](#)

5.28.1 Interface order element

sum (enumerated string)	network/interface_order/N/
Element of the interface preference order	

This sum is a part of a composite value which is modified as a whole.

This sum can assume the following values:

constant "wired"	Wired	Wired network interface
constant "wireless"	Wireless	Wireless network interface (if configured)

Sample `uom` library write command (note that `_interface_order_element_index` is a variable):

```
uom.network.interface_order[_interface_order_element_index]={}
```

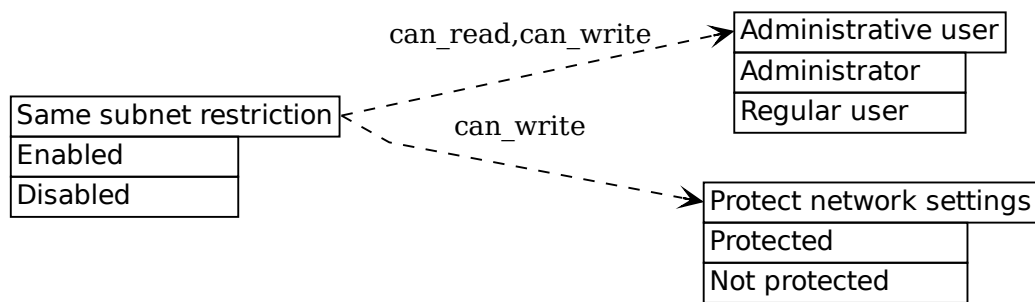
Sample `requests` write command (note that `_interface_order_element_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/network/interface_order/'+str( ↵
↵ _interface_order_element_index)+'/', auth=auth, headers=headers, json='wired')
```

[Browse more samples](#)

5.29 Same subnet restriction

sum (boolean)	network/same_subnet_only/
Reject incoming connections from networks other than local subnets	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

Changes to this sum do not take effect immediately.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/network/same_subnet_only/', auth=auth, ↵
↵ headers=headers, json=False)
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/network/same_subnet_only/"
```

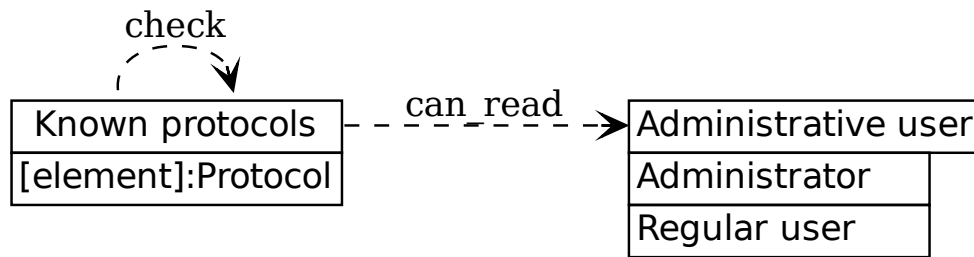
⇒

false

[Browse more samples](#)

5.30 Known protocols

map	network/known_protocols/
Known IP address assignment protocols	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Protocol](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command:

```
uom get "network/known_protocols"
```

⇒

```
{"dhcp":"Dynamic IP/DHCP","static":"Static IP"}
```

Sample uom library read command:

```
print(uom.dump(uom.network.known_protocols))
```

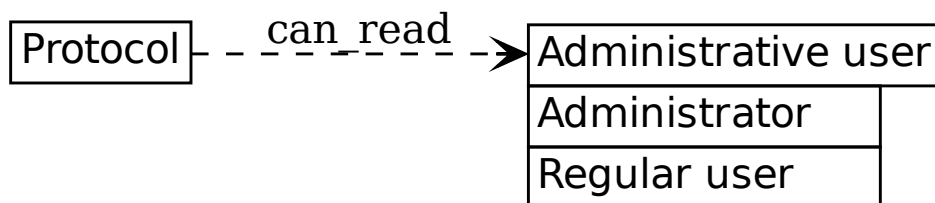
⇒

```
{dhcp="Dynamic IP/DHCP",static="Static IP"}
```

[Browse more samples](#)

5.30.1 Protocol

string	network/known_protocols/S/
Name of IP address assignment protocol	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample uom library read command (note that `_protocol` is a variable):

```
print(uom.dump(uom.network.known_protocols[_protocol]))
```

⇒

```
"Dynamic IP/DHCP"
```

Sample CLI read command (note that `protocol` is a variable):

```
uom get "network/known_protocols/${protocol}"
```

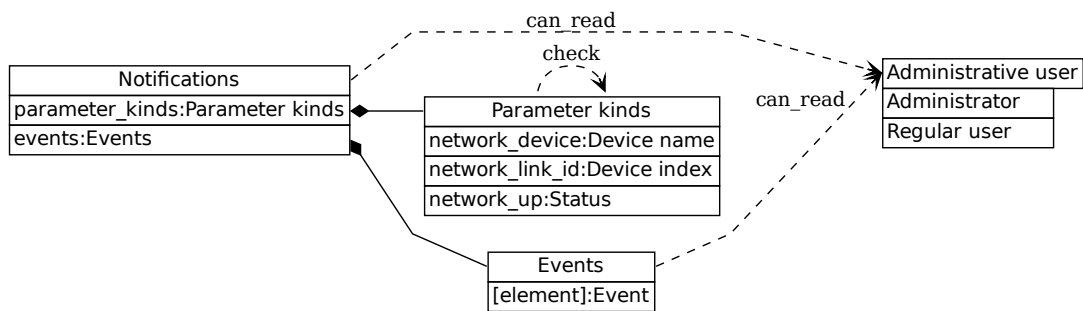
⇒

```
"Static IP"
```

[Browse more samples](#)

5.31 Notifications

object	network/notifications/
Network interface status notifications	



Retrieving the value is denied if not [administrative user](#)

This object does not support direct modification.

This object contains the following items:

parameter_kinds	Parameter kinds
events	Events

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/network/notifications/"
```

⇒

Sample `uom` library read command:

```
print(uom.dump(uom.network.notifications))
```

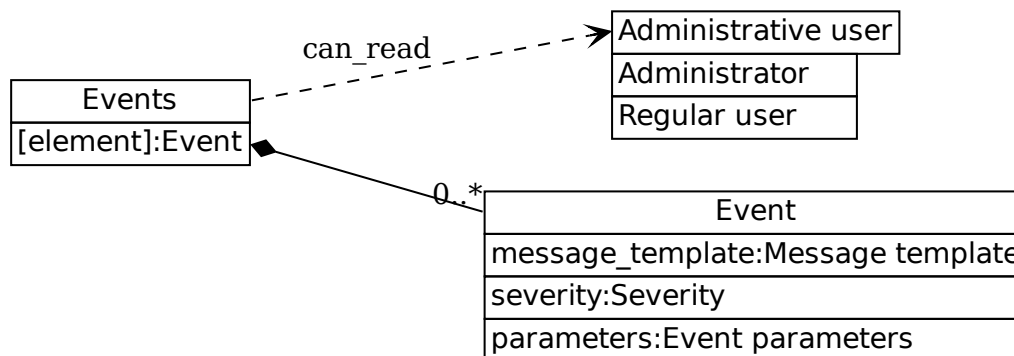
⇒

[Browse more samples](#)

See also [Notifications: Parameter kinds](#)

5.31.1 Events

map	network/notifications/events/
Event templates	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Event](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command:

```
request.get({url:"network/notifications/events/"},function(error,response,body) { ↵
    ↵ console.log(body) });
```

⇒

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/network/notifications/events/', ↵
    ↵ auth=auth,headers=headers).json())
```

⇒

[Browse more samples](#)

See also [Events: Event](#)

5.32 Notifications: Parameter kinds

object	network/notifications/parameter_kinds/
Kinds of event parameters	

This object does not correspond to an actual resource.

This object contains the following items:

network_device	Device name
network_link_id	Device index
network_up	Status

5.32.1 Device name

string	network/notifications/parameter_kinds/network_device/
Low-level network interface name	

5.32.2 Device index

number	network/notifications/parameter_kinds/network_link_id/
Low-level network interface index	

The value is subject to the following constraints: [the value](#) is an integer

5.32.3 Status

sum (boolean)	network/notifications/parameter_kinds/network_up/
Network interface status	

This sum can assume the following values:

constant true	Up	The network interface is connected
constant false	Down	The network interface is disconnected

5.33 Event parameters: Event parameter

object	network/notifications/events/S/parameters/N/
Properties of a parameter associated with the event	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

id	Identifier
has_fixed_value	Fixed value flag
fixed_value	Fixed value

Sample `curl` write command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary '{"fixed_value\:true,\\" ↵
↵ has_fixed_value\:true,\\"id\":"network_up\"}' "http://192.168.0.100/ ↵
↵ restapi/network/notifications/events/:event/parameters/: ↵
↵ event_parameter_index/"
```

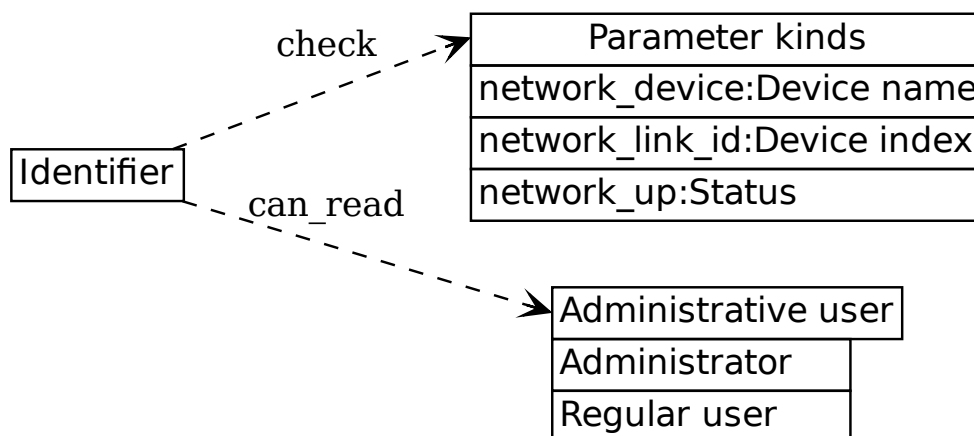
Sample uom library write command (note that `_event` and `_event_parameter_index` are variables):

```
uom.network.notifications.events[_event].parameters[_event_parameter_index]={ ↵
↵ fixed_value=null,has_fixed_value=false,id="network_link_id"}
```

[Browse more samples](#)

5.33.1 Identifier

string	network/notifications/events/S/parameters/N/id/
Parameter identifier	



The value is subject to the following constraints: [parameter kinds\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"network/notifications/events/"+_event+"/parameters/"+ ↵
↵ _event_parameter_index.toString()+"/id/"},function(error,response,body) { ↵
↵ console.log(body) });
```

⇒

```
"network_device"
```

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "network/notifications/events/${event}/parameters/${event_parameter_index} ↵
↵ }/id"
```

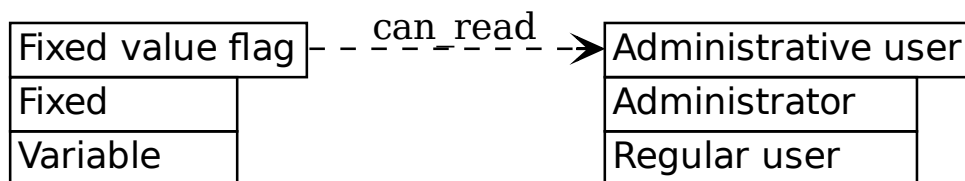
⇒

```
"network_link_id"
```

[Browse more samples](#)

5.33.2 Fixed value flag

sum (boolean)	network/notifications/events/S/parameters/N/has_fixed_value/
Flag indicating that the parameter's value for this event is fixed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Fixed	The value is fixed
constant false	Variable	The value is variable

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "network/notifications/events/${event}/parameters/${event_parameter_index} ↵
↵ }/has_fixed_value"
```

⇒

```
false
```

Sample `requests read` command (note that `_event` and `_event_parameter_index` are variables):

```
print (requests.get ('http://192.168.0.100/restapi/network/notifications/events/' + ↵
    ↵ _event+ '/parameters/' +str (_event_parameter_index)+ '/has_fixed_value/', auth= ↵
    ↵ auth, headers=headers).json())
```

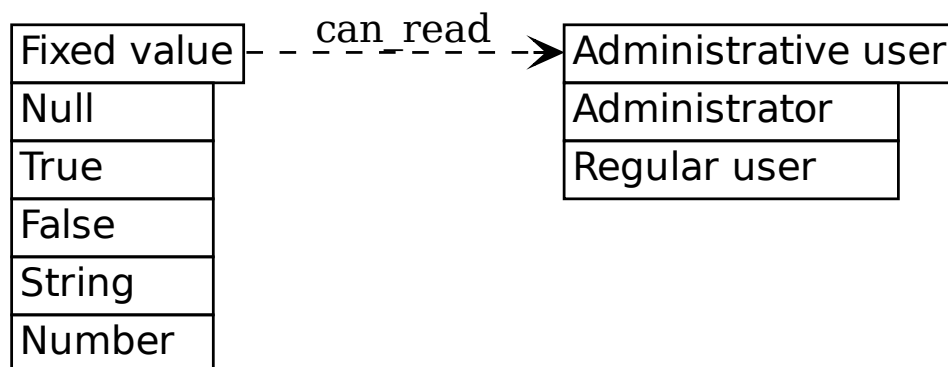
⇒

True

[Browse more samples](#)

5.33.3 Fixed value

sum (variant)	network/notifications/events/S/parameters/N/fixed_value/
Fixed parameter value for this particular event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print (uom.dump(uom.network.notifications.events[_event].parameters[ ↵
    ↵ _event_parameter_index].fixed_value))
```

⇒

null

Sample CLI read command (note that event and event_parameter_index are variables):

```
uom get "network/notifications/events/${event}/parameters/${event_parameter_index} ↵
↵ }/fixed_value"
```

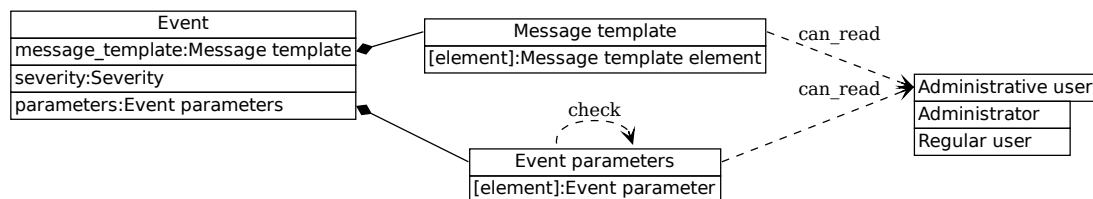
⇒

null

[Browse more samples](#)

5.34 Events: Event

object	network/notifications/events/S/
Event template	



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

message_template	Message template
severity	Severity
parameters	Event parameters

Sample requests write command (note that _event is a variable):

```
requests.put('http://192.168.0.100/restapi/network/notifications/events/'+_event ↵
↵ +'/',auth=auth,headers=headers,json={'severity': 5, 'message_template': [' ↵
↵ Interface "'", 0, '"' is down'], 'parameters': [{'fixed_value': None, ' ↵
↵ has_fixed_value': False, 'id': 'network_device'}, {'fixed_value': None, ' ↵
↵ has_fixed_value': False, 'id': 'network_link_id'}, {'fixed_value': False, ' ↵
↵ has_fixed_value': True, 'id': 'network_up'}]})
```

Sample CLI write command (note that event is a variable):

```
uom set "network/notifications/events/${event}" "{\"severity\":5,\" ↵
↵ message_template\":[\"Interface \\\"\",0,\"\\\" is down\"],\"parameters ↵
↵ \":[{\"fixed_value\":null,\"has_fixed_value\":false,\"id\": \"network_device ↵
```

```

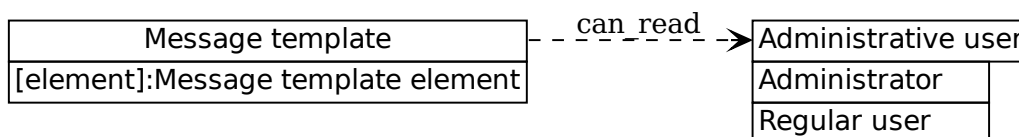
↪ \", {\"fixed_value\":null,\"has_fixed_value\":false,\"id\": \"↪
↪ network_link_id\"}, {\"fixed_value\":false,\"has_fixed_value\":true,\"id ↪
↪ \": \"network_up\"}]}"

```

[Browse more samples](#)

5.34.1 Message template

array	network/notifications/events/S/message_template/
Template for human-readable message generation	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Message template element](#) elements.

Creating elements in this collection is not supported.

Sample `requests` read command (note that `_event` is a variable):

```

print(requests.get('http://192.168.0.100/restapi/network/notifications/events/' + ↪
↪ _event + '/message_template/', auth=auth, headers=headers).json())

```

⇒

```
['Interface "', 0, '"' is up']
```

Sample `curl` read command (note that `:event` is a URL template argument):

```

curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↪
↪ restapi/network/notifications/events/:event/message_template/"

```

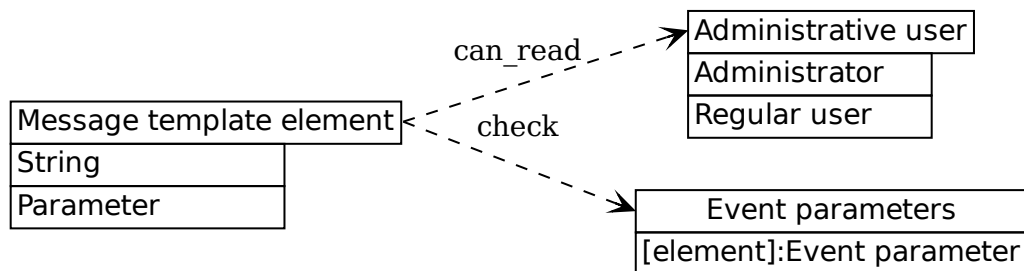
⇒

```
["Interface \"", 0, "\"" is down"]
```

[Browse more samples](#)

sum (variant)	network/notifications/events/S/message_template/N/
Element of human-readable message template	

5.34.1.1 Message template element



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

string	String	Fixed string	
number	Parameter	Index of message parameter to insert	event parameters[the value]

Sample `requests` read command (note that `_event` and `_message_template_element_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/network/notifications/events/'+
    ↳ _event+'/message_template/'+str(_message_template_element_index)+'/', auth=
    ↳ auth, headers=headers).json())
```

⇒

```
'Interface ''
```

Sample `curl` read command (note that `:event` and `:message_template_element_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
    ↳ restapi/network/notifications/events/:event/message_template/:
    ↳ message_template_element_index/"
```

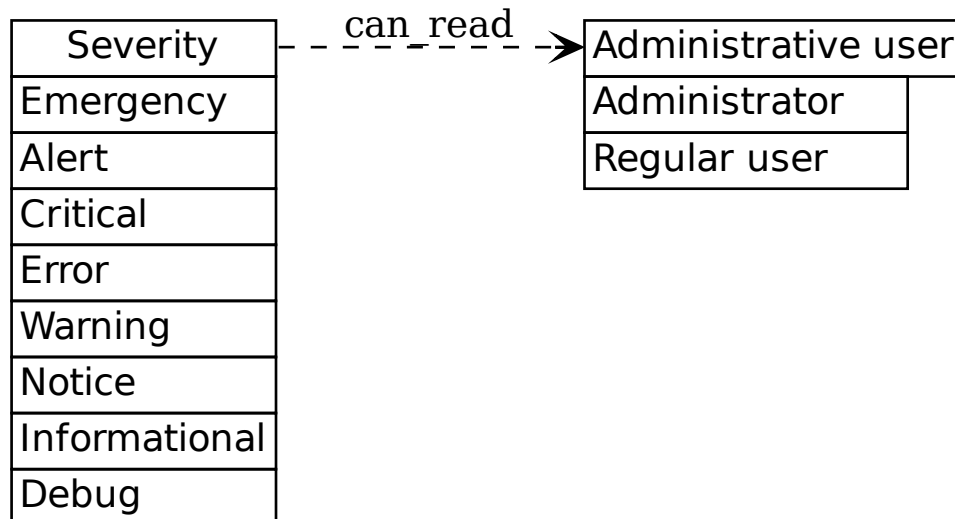
⇒

```
"\" is up"
```

[Browse more samples](#)

5.34.2 Severity

sum (enumerated number)	network/notifications/events/S/severity/
Severity rating assigned to the event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant 1	Emergency	Treat the event as an emergency
constant 2	Alert	Treat the event as an alert
constant 3	Critical	Treat the event as critical
constant 4	Error	Treat the event as an error
constant 5	Warning	Treat the event as a warning
constant 6	Notice	Treat the event as a notice
constant 7	Informational	Treat the event as informational
constant 8	Debug	Treat the event as debugging-related

Sample `requests` read command (note that `_event` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/network/notifications/events/'+ ↵
↵ _event+'/severity/',auth=auth,headers=headers).json()))
```

⇒

5

Sample `curl` read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/network/notifications/events/:event/severity/"
```

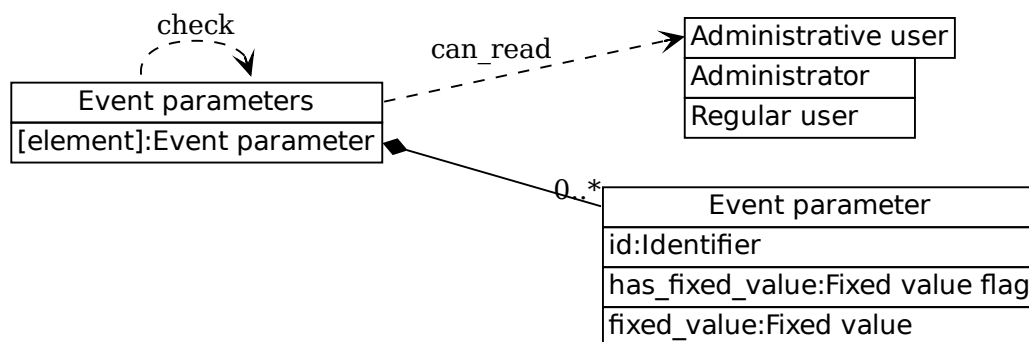
⇒

5

[Browse more samples](#)

5.34.3 Event parameters

array	network/notifications/events/S/parameters/
Additional data associated with the event	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Event parameter](#) elements.

Creating elements in this collection is not supported.

Sample `uom` library read command (note that `_event` is a variable):

```
print(uom.dump(uom.network.notifications.events[_event].parameters))
```

⇒

```
{{fixed_value=null,has_fixed_value=false,id="network_device"},{fixed_value=null, ↵
↵ has_fixed_value=false,id="network_link_id"},{fixed_value=true, ↵
↵ has_fixed_value=true,id="network_up"}}
```

Sample `curl` read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/restapi/network/notifications/events/:event/parameters/"
```

⇒

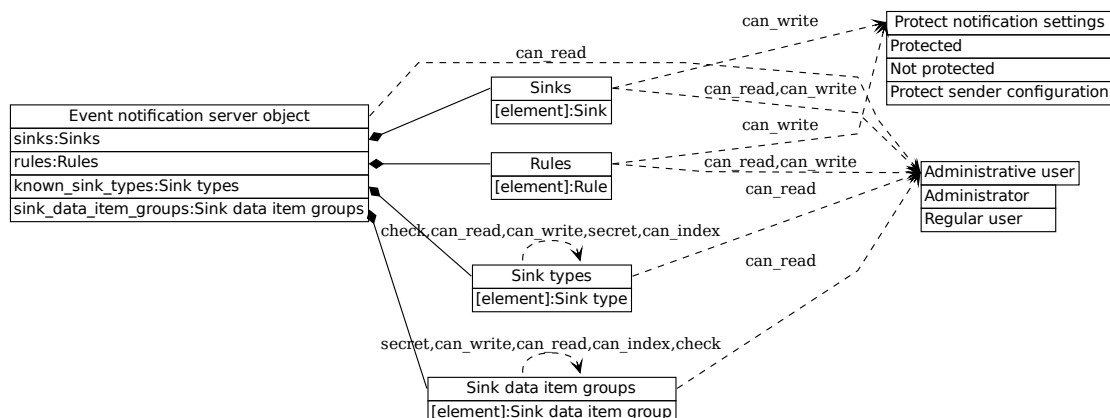
```
[{"fixed_value":null,"has_fixed_value":false,"id":"network_device"}, {"fixed_value":null,"has_fixed_value":false,"id":"network_link_id"}, {"fixed_value":false,"has_fixed_value":true,"id":"network_up"}]
```

[Browse more samples](#)

See also [Event parameters: Event parameter](#)

6 Event notification server object

object	notification/
Object representing the event notification server configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

sinks	Sinks
rules	Rules
known_sink_types	Sink types
sink_data_item_groups	Sink data item groups

Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/notification/', auth=auth, headers= headers, json=<...>)
```

Sample requests read command:

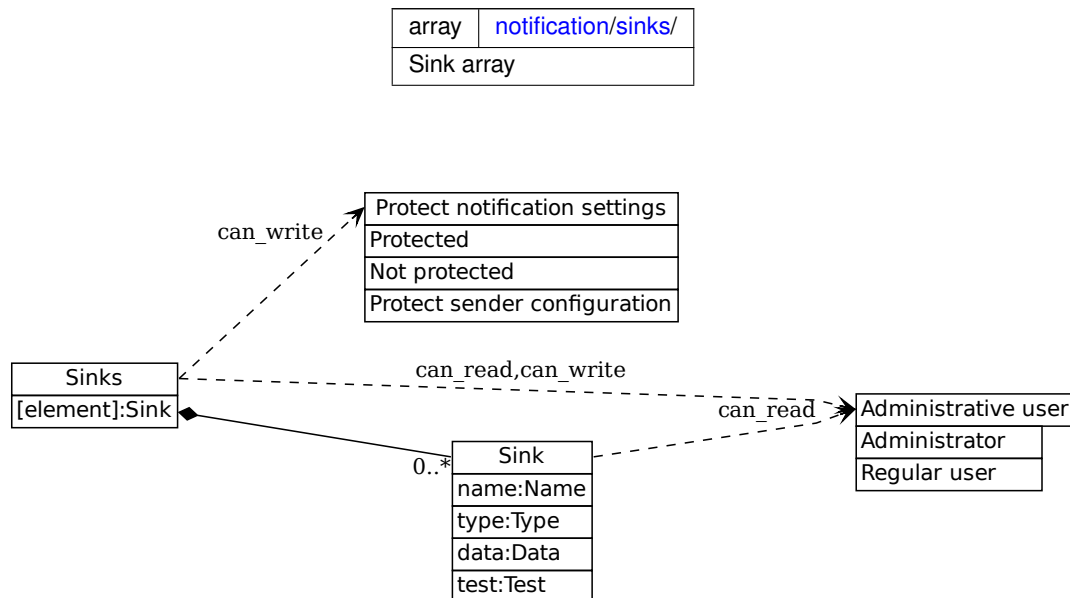
```
print(requests.get('http://192.168.0.100/restapi/notification/', auth=auth, headers= headers).json())
```

⇒

<...>

[Browse more samples](#)

6.1 Sinks



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect notification settings](#)

This array represents a value in persistent storage.

This array contains [Sink](#) elements.

Sample CLI write command:

```
uom set "notification/sinks" ...
```

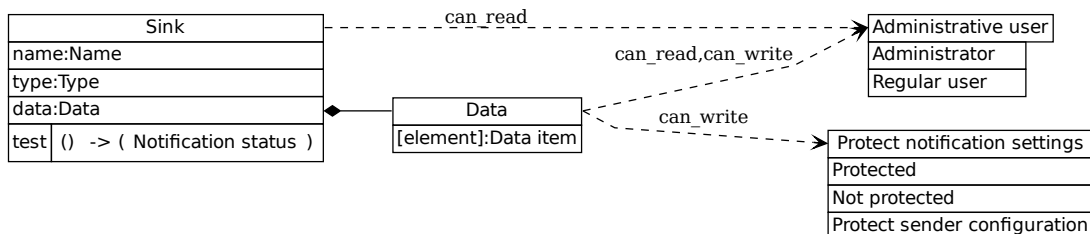
Sample uom library write command:

```
uom.notification.sinks={{data={community="",server="w6ec.voex.example.com",
    ↪ trap_oid="1.8,"},name="brian",test={{value="function"},arguments={},results
    ↪ ={{true}},type="snmpv2c"},{data={auth_passphrase="",auth_protocol="MD5",
    ↪ context_engine_id="0x9FB9bA60Ca",context_name="Qk",priv_passphrase="255r~AC
    ↪ ",priv_protocol="DES",security_engine_id="0xEf5c",security_name="jeff",
    ↪ server="ce0i5.dyd8x.xjx4.example.com",trap_oid="2.762597,"},name="james",
    ↪ test={{value="function"},arguments={},results={{true}},type="snmpv3i"},{data
    ↪ ={{encryption="smtps",password="#",port="987",recipient="paul@8wrnx.e.mflyo.9
    ↪ prs.example.com",sender="paul@shb0.example.com",server="z6c6j.example.com",
    ↪ username="joseph"},name="brian",test={{value="function"},arguments={},
    ↪ results={"Sink handler indicates notification failure, check log for errors
    ↪ "}}},type="email"}}
```

[Browse more samples](#)

6.1.1 Sink

object	notification/sinks/N/
Event sink	



Retrieving the value is denied if not [administrative user](#)

This object represents a value in persistent storage.

This object contains the following items:

name	Name
type	Type
data	Data
test	Test

Sample `curl` deletion command (note that `:sink_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X DELETE -H "Accept: application/json" \
  "http://192.168.0.100/restapi/notification/sinks/:sink_index/"
```

Sample `requests` write command (note that `_sink_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/notification/sinks/'+str(_sink_index) \
  + '/', auth=auth, headers=headers, json={'test': [{'value': 'function'}], 'type' \
  ': 'xmpp', 'name': 'kenneth', 'data': {'password': 'c', 'sender': ' \
  steven@i3z5.example.com', 'recipient': 'anthony@73s28n.n5ar.example.com'})
```

[Browse more samples](#)

See also [Sink: Name](#)

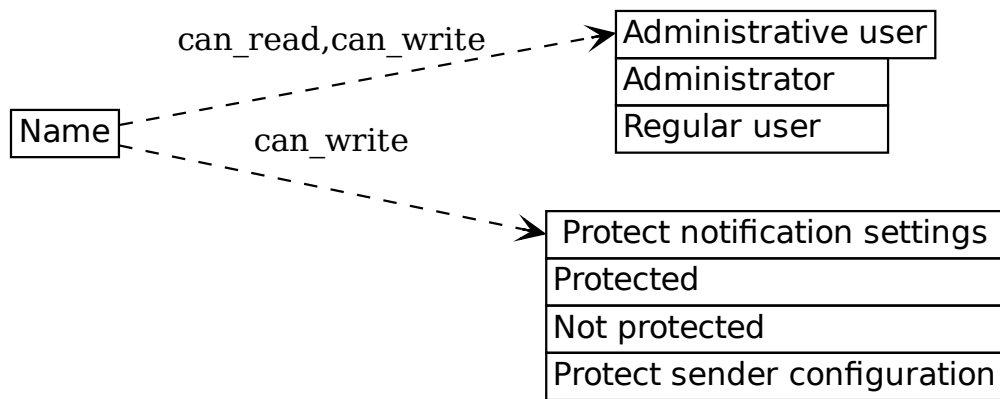
See also [Sink: Type](#)

See also [Sink: Data](#)

See also [Sink: Test](#)

6.2 Sink: Name

string	notification/sinks/N/name/
Sink name (can be shared between sinks)	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect notification settings](#)

This string represents a value in persistent storage.

Sample uom library read command (note that `_sink_index` is a variable):

```
print(uom.dump(uom.notification.sinks[_sink_index].name))
```

⇒

"edward"

Sample JS request read command (note that `_sink_index` is a variable):

```
request.get({url:"notification/sinks/"+_sink_index.toString()+"/name/"},function(↵
    ↵ error,response,body) {console.log(body)});
```

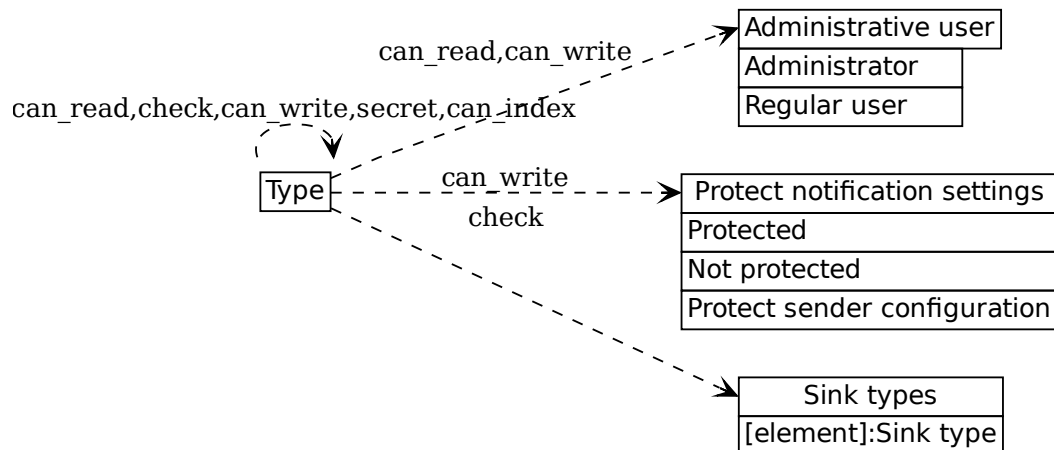
⇒

"david"

[Browse more samples](#)

6.3 Sink: Type

string	notification/sinks/N/type/
Sink type	



The value is subject to the following constraints: [sink types\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect notification settings](#)

This string represents a value in persistent storage.

Sample JS request read command (note that `_sink_index` is a variable):

```
request.get({url:"notification/sinks/"+_sink_index.toString()+"/type/"},function(↵
  ↵ error,response,body) {console.log(body)});
```

⇒

```
"snmpv3"
```

Sample curl read command (note that `:sink_index` is a URL template argument):

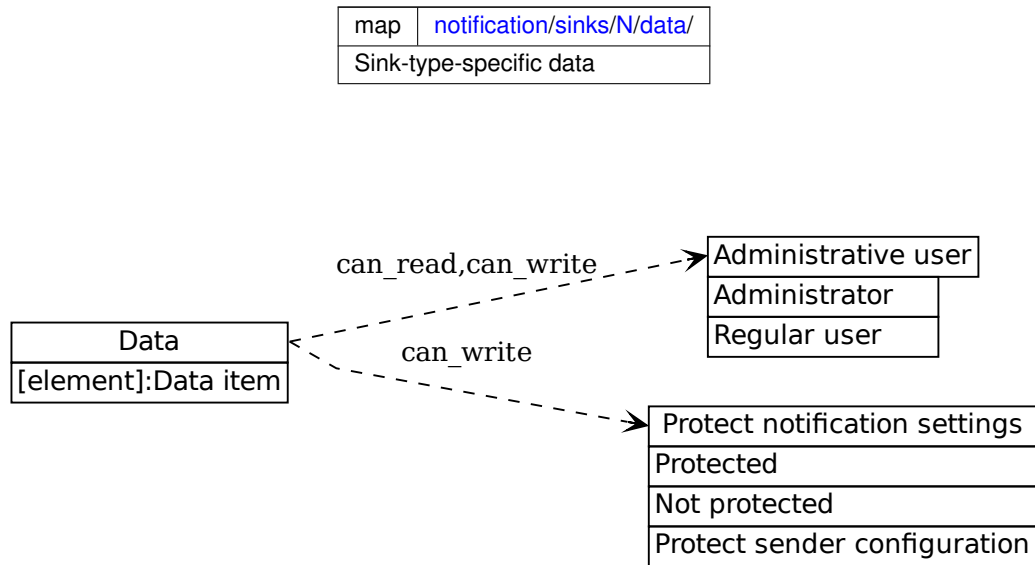
```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵
  ↵ restapi/notification/sinks/:sink_index/type/"
```

⇒

```
"snmpv2ci"
```

[Browse more samples](#)

6.4 Sink: Data



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect notification settings](#)

This map represents a value in persistent storage.

This map contains [Data item](#) elements.

Sample JS request data item creation command (note that `_sink_index` is a variable):

```
request.put ({url:"notification/sinks/"+_sink_index.toString()+"/data/ ↵
↵ specific_trap_type/",body:"1"});
```

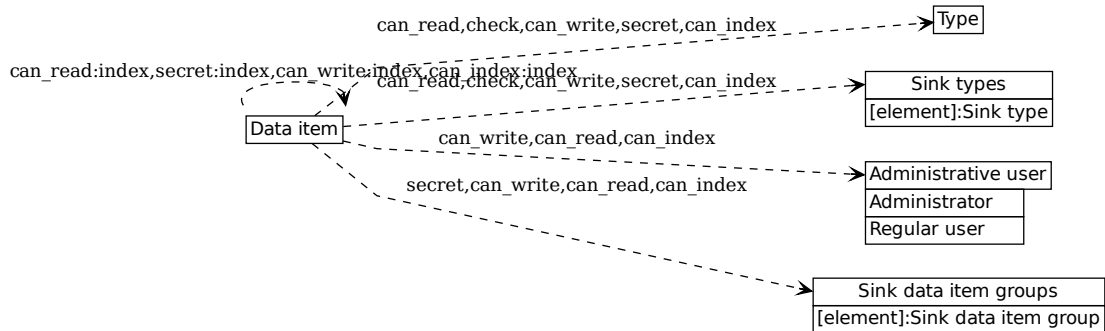
Sample CLI data item creation command (note that `sink_index` is a variable):

```
uom insert "notification/sinks/${sink_index}/data/server" "\"idv57.yy-8.aw5-k. ↵
↵ example.com\""
```

[Browse more samples](#)

6.4.1 Data item

string	notification/sinks/N/data/S/
Item of sink-type-specific data	



The value is subject to the following constraints: the value matches `sink types[type].data_items[index of the value].regexp`

Retrieving the value is denied if any of the following is true:

- not administrative user
- all of the following is true:
 - index of the value is not equal to ""
 - `sink data item groups[sink types[type].data_items[index of the value].group].unreadable`

Changing the value is denied if any of the following is true:

- not administrative user
- all of the following is true:
 - index of the value is not equal to ""
 - `sink data item groups[sink types[type].data_items[index of the value].group].immutable`

Using the string as a field for indexing into the grandparent collection is denied if any of the following is true:

- not administrative user
- all of the following is true:
 - index of the value is not equal to ""
 - `sink data item groups[sink types[type].data_items[index of the value].group].secret`

This string represents a value in persistent storage.

This string should be displayed in a secure manner if all of the following is true:

- index of the value is not equal to ""
- `sink data item groups[sink types[type].data_items[index of the value].group].secret`

Sample curl read command (note that :sink_index and :data_item are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵  
↵ restapi/notification/sinks/:sink_index/data/:data_item/"
```

⇒

```
"nq51-8.56n6q5.tzhxt.example.com"
```

Sample uom library read command (note that _sink_index and _data_item are variables):

```
print(uom.dump(uom.notification.sinks[_sink_index].data[_data_item]))
```

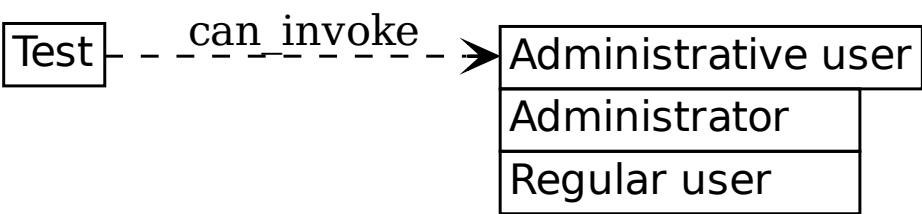
⇒

```
"0.6,,,,,"
```

[Browse more samples](#)

6.5 Sink: Test

call	notification/sinks/N/test/
Send a test notification using this sink	



Performing the function call is denied if not [administrative user](#)

The call has no arguments (supply empty tuple).

The call returns the following results:

- 1. Notification status: Success or Failure

Sample requests invocation (note that _sink_index is a variable):

```
print(requests.post('http://192.168.0.100/restapi/notification/sinks/'+str( ↵  
↵ _sink_index)+' /test/', auth=auth, headers=headers, json={}).json())
```

⇒

True

Sample CLI invocation (note that `sink_index` is a variable):

```
uom invoke "notification/sinks/${sink_index}/test"
```

⇒

true

[Browse more samples](#)

6.5.1 Notification status

sum (variant)	notification/sinks/N/test/results: 1/
Notification success or failure message	

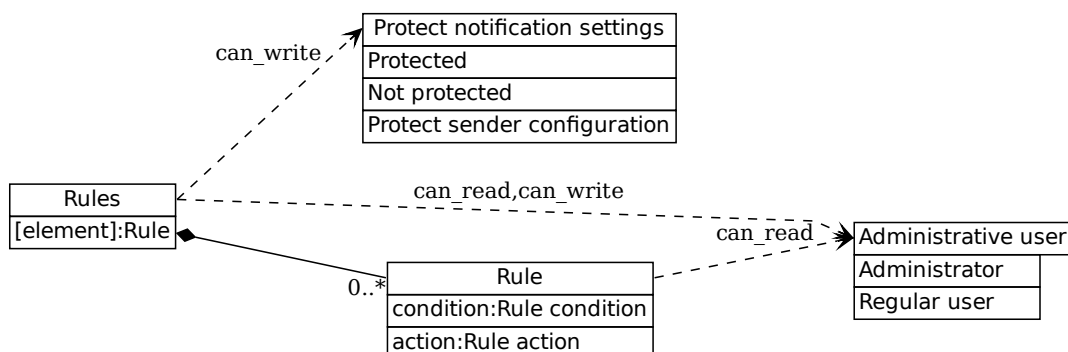
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Success	The notification has succeeded
string	Failure	The notification has failed with the following error

6.6 Rules

array	notification/rules/
Event processing rule list	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect notification settings](#)

This array represents a value in persistent storage.

This array contains [Rule](#) elements.

Sample JS request rule creation command:

```
request.post({url:"notification/rules/",body:[]});
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/notification/rules/"
```

⇒

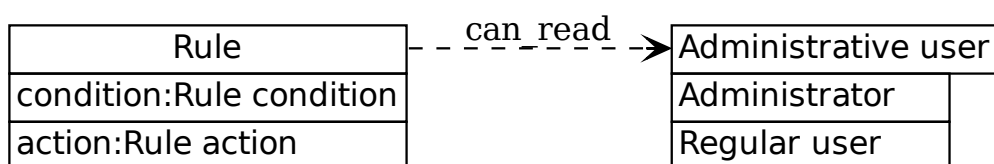
```
[{"condition":"severity>=EMERGENCY","action":"notify(\"brian\")"}, {"condition":" ↵
↵ severity>=INFO","action":"notify(\"charles\")"}, {"condition":"severity>= ↵
↵ ALERT","action":"notify(\"anthony\")"}]
```

[Browse more samples](#)

See also [Rules: Rule](#)

6.7 Rules: Rule

object	notification/rules/N/
Event processing rule	



Retrieving the value is denied if not [administrative user](#)

This object represents a value in persistent storage.

This object contains the following items:

condition	Rule condition
action	Rule action

Sample JS request write command (note that `_rule_index` is a variable):

```
request.put ({url:"notification/rules/"+_rule_index.toString()+"/",body:{" ←
  ↪ condition":"severity>=DEBUG","action":"notify(\"james\")"}});
```

Sample uom library read command (note that `_rule_index` is a variable):

```
print (uom.dump (uom.notification.rules[_rule_index]))
```

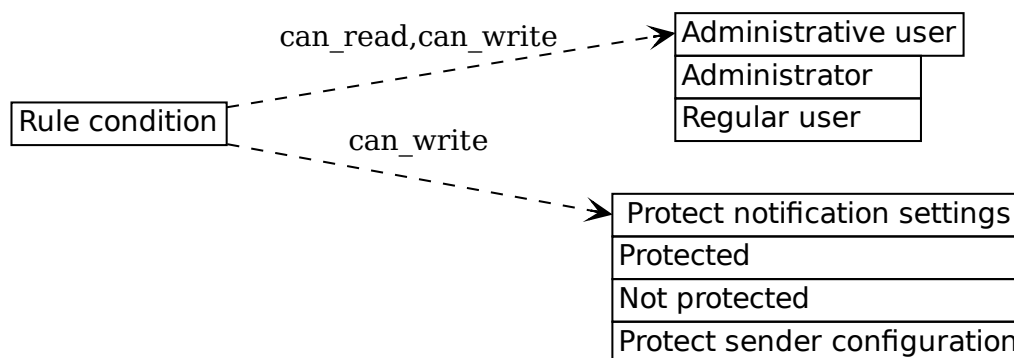
⇒

```
{action="notify(\"richard\")",condition="severity>=ALERT"}
```

[Browse more samples](#)

6.7.1 Rule condition

string	notification/rules/N/condition/
Lua expression to evaluate for events to be matched	



The value contains Lua source (has native MIME type `text/x-lua`).

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect notification settings](#)

This string represents a value in persistent storage.

Sample uom library write command (note that `_rule_index` is a variable):

```
uom.notification.rules[_rule_index].condition="severity>=DEBUG"
```

Sample uom library read command (note that `_rule_index` is a variable):

```
print(uom.dump(uom.notification.rules[_rule_index].condition))
```

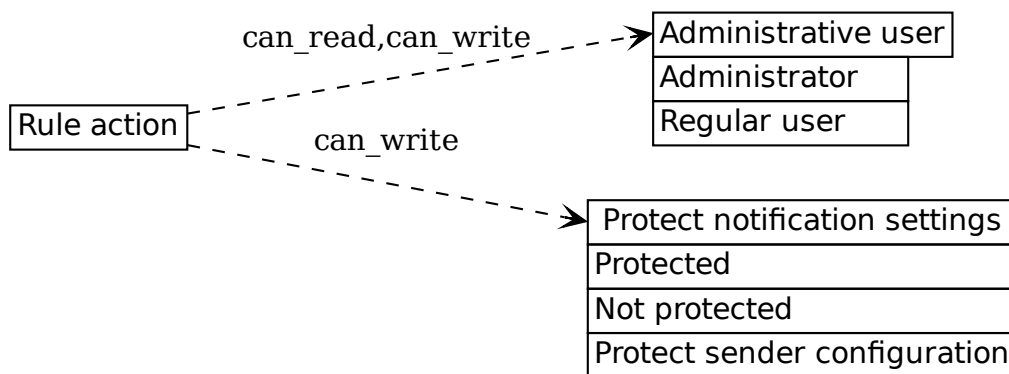
⇒

```
"severity>=WARNING"
```

[Browse more samples](#)

6.7.2 Rule action

string	notification/rules/N/action/
Lua code to evaluate for matching events	



The value contains Lua source (has native MIME type `text/x-lua`).

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect notification settings](#)

This string represents a value in persistent storage.

Sample JS request read command (note that `_rule_index` is a variable):

```
request.get({url:"notification/rules/"+_rule_index.toString()+"/action/"}, ↔
  ↪ function(error, response, body) {console.log(body)});
```

⇒

```
"notify(\"brian\")"
```

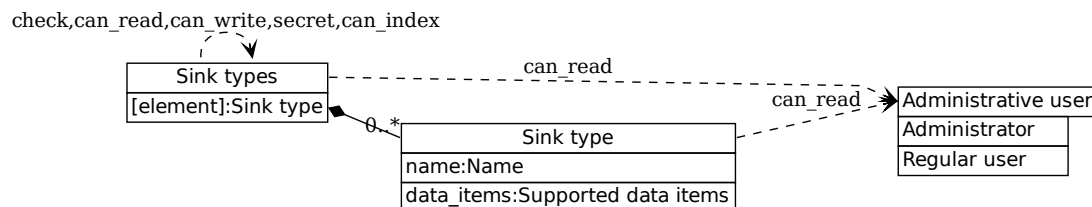
Sample CLI write command (note that `rule_index` is a variable):

```
uom set "notification/rules/${rule_index}/action" "\"notify(\\\"edward\\\")\""
```

[Browse more samples](#)

6.8 Sink types

map	notification/known_sink_types/
Known sink types	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Sink type](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/notification/known_sink_types/"
```

⇒

...

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/notification/known_sink_types/', ↵
↵ auth=auth, headers=headers).json())
```

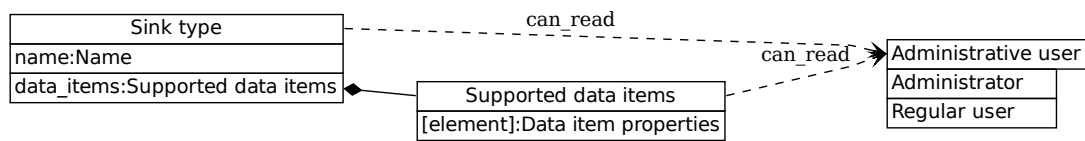
⇒

<...>

[Browse more samples](#)

6.8.1 Sink type

object	notification/known_sink_types/S/
Type of sink	



Retrieving the value is denied if not [administrative user](#)

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

name	Name
data_items	Supported data items

Sample `curl` read command (note that `:sink_type` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/notification/known_sink_types/:sink_type/"
```

⇒

Sample `uom` library read command (note that `_sink_type` is a variable):

```
print(uom.dump(uom.notification.known_sink_types[_sink_type]))
```

⇒

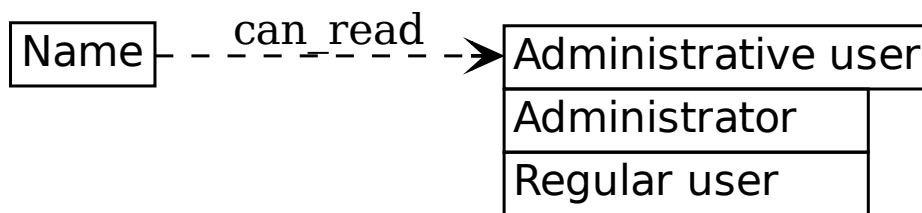
[Browse more samples](#)

See also [Sink type: Name](#)

See also [Sink type: Supported data items](#)

6.9 Sink type: Name

string	notification/known_sink_types/S/name/
Sink type name	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample uom library read command (note that `_sink_type` is a variable):

```
print(uom.dump(uom.notification.known_sink_types[_sink_type].name))
```

⇒

```
"SNMP v2c inform"
```

Sample requests read command (note that `_sink_type` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/notification/known_sink_types/' + ↵
↵ _sink_type + '/name/', auth=auth, headers=headers).json())
```

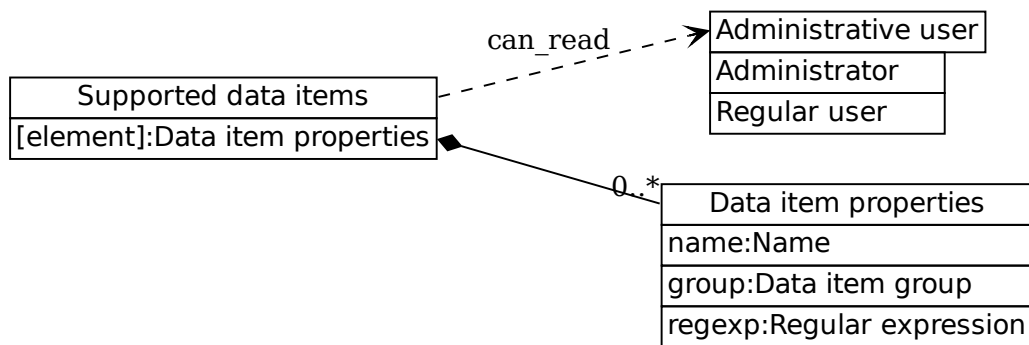
⇒

```
'SNMP v2c inform'
```

[Browse more samples](#)

6.10 Sink type: Supported data items

map	notification/known_sink_types/S/data_items/
Properties of supported data items	



Retrieving the value is denied if not [administrative user](#)

This map is a part of a composite value which is modified as a whole.

This map does not support direct modification.

This map contains [Data item properties](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command (note that `sink_type` is a variable):

```
uom get "notification/known_sink_types/${sink_type}/data_items"
```

⇒

Sample JS request read command (note that `_sink_type` is a variable):

```
request.get({url:"notification/known_sink_types/"+_sink_type+"/data_items/"}, ↵
  ↵ function(error,response,body) {console.log(body)});
```

⇒

[Browse more samples](#)

6.10.1 Data item properties

object	notification/known_sink_types/S/data_items/S/
Properties of data item	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

name	Name
group	Data item group
regexp	Regular expression

Sample CLI write command (note that `sink_type` and `data_item_properties` are variables):

```
uom set "notification/known_sink_types/${sink_type}/data_items/${
  ↳ data_item_properties}" "${"group\":"msg\","name\":"Content type\","
  ↳ regexp\":"^(json|urlencoded)$\"}"
```

Sample uom library read command (note that `_sink_type` and `_data_item_properties` are variables):

```
print(uom.dump(uom.notification.known_sink_types[_sink_type].data_items[
  ↳ _data_item_properties]))
```

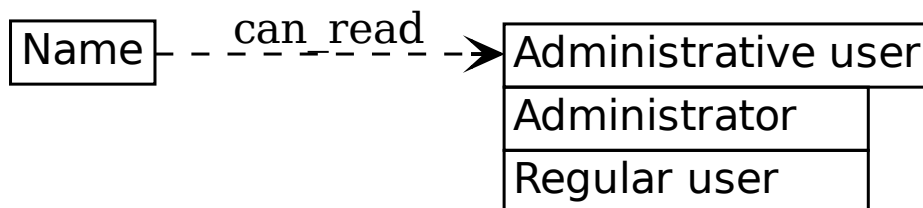
⇒

```
{group="msg",name="Enterprise OID",regexp="^[012](\\.[0-9]{1,}),{1,}$"}
```

[Browse more samples](#)

string	notification/known_sink_types/S/data_items/S/name/
Data item name	

6.10.1.1 Name



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample CLI read command (note that `sink_type` and `data_item_properties` are variables):

```
uom get "notification/known_sink_types/${sink_type}/data_items/${
  ↳ data_item_properties}/name"
```

⇒

`"Content type"`

Sample requests read command (note that `_sink_type` and `_data_item_properties` are variables):

```
print(requests.get('http://192.168.0.100/restapi/notification/known_sink_types/' +
    ↪ _sink_type + '/data_items/' + _data_item_properties + '/name/', auth=auth, headers=
    ↪ headers).json())
```

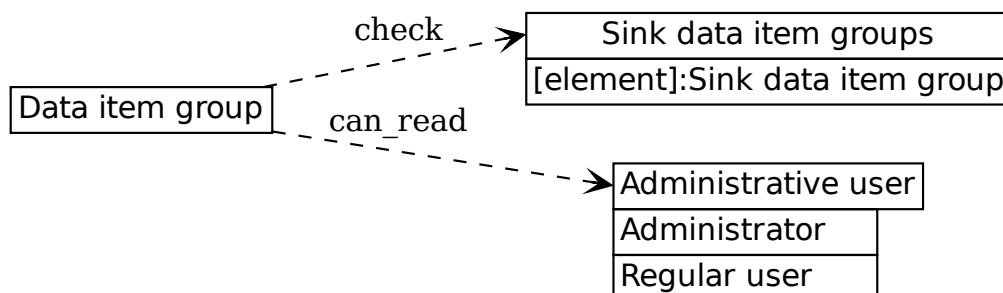
⇒

`'Username'`

[Browse more samples](#)

string	notification/known_sink_types/S/data_items/S/group/
The group of data items to which this one belongs	

6.10.1.2 Data item group



The value is subject to the following constraints: [sink data item groups](#)[the value]

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample requests read command (note that `_sink_type` and `_data_item_properties` are variables):

```
print(requests.get('http://192.168.0.100/restapi/notification/known_sink_types/' +
    ↪ _sink_type + '/data_items/' + _data_item_properties + '/group/', auth=auth, headers=
    ↪ =headers).json())
```

⇒

`'msgkey'`

Sample CLI read command (note that `sink_type` and `data_item_properties` are variables):

```
uom get "notification/known_sink_types/${sink_type}/data_items/${ ↵
↵ data_item_properties}/group"
```

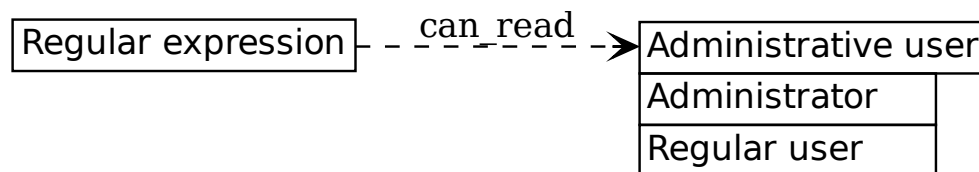
⇒

```
"rcpt"
```

[Browse more samples](#)

string	notification/known_sink_types/S/data_items/S/regexp/
Regular expression which the data item must match	

6.10.1.3 Regular expression



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample CLI read command (note that `sink_type` and `data_item_properties` are variables):

```
uom get "notification/known_sink_types/${sink_type}/data_items/${ ↵
↵ data_item_properties}/regexp"
```

⇒

Sample requests read command (note that `_sink_type` and `_data_item_properties` are variables):

```
print (requests.get ('http://192.168.0.100/restapi/notification/known_sink_types/' + ↵
↵ _sink_type + '/data_items/' + _data_item_properties + '/regexp/', auth=auth, ↵
↵ headers=headers).json())
```

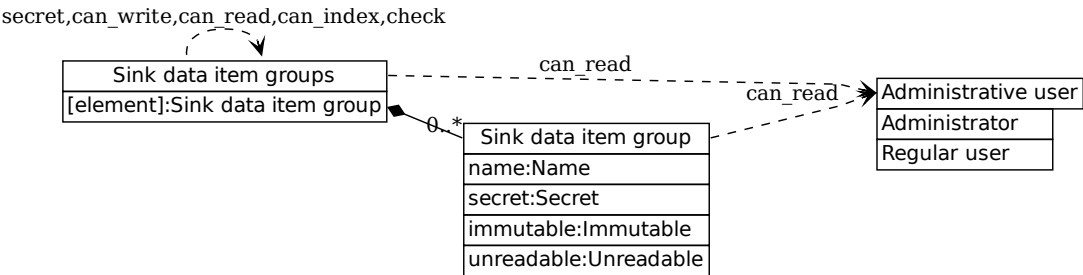
⇒

```
'^.*$'
```

[Browse more samples](#)

6.11 Sink data item groups

map	notification/sink_data_item_groups/
Properties of groups of sink data items	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map can change as if by itself or indirectly because of other actions.

Changes to this map cannot be tracked.

This map contains [Sink data item group](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command:

```
request.get ({url:"notification/sink_data_item_groups/"},function(error,response,↵↵ body) {console.log(body)});
```

⇒

Sample uom library read command:

```
print (uom.dump (uom.notification.sink_data_item_groups))
```

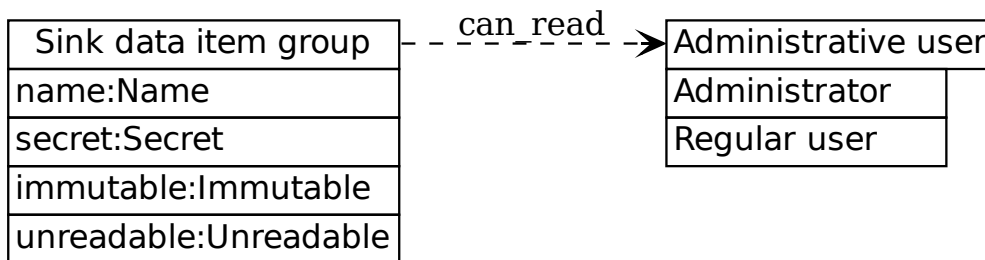
⇒

[Browse more samples](#)

See also [Sink data item groups: Sink data item group](#)

6.12 Sink data item groups: Sink data item group

object	notification/sink_data_item_groups/S/
Properties of a group of sink data items	



Retrieving the value is denied if not [administrative user](#)

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

name	Name
secret	Secret
immutable	Immutable
unreadable	Unreadable

Sample curl write command (note that `:sink_data_item_group` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
↪ json" -H "Accept: application/json" --data-binary '{"immutable":false,"
↪ unreadable":false,"name":"Sender key","secret":true}' "http
↪ ://192.168.0.100/restapi/notification/sink_data_item_groups/:
↪ sink_data_item_group/"
```

Sample requests read command (note that `_sink_data_item_group` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/notification/
↪ sink_data_item_groups/'+_sink_data_item_group+'/',auth=auth,headers=headers
↪ ).json())
```

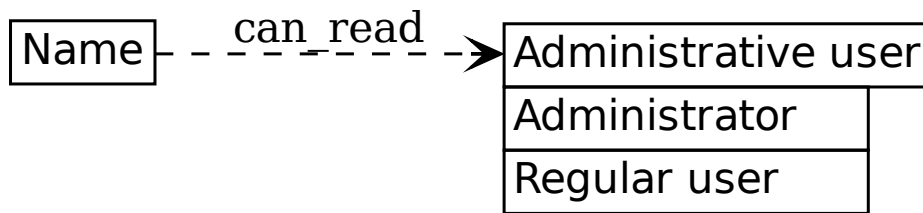
⇒

```
{'immutable': False, 'unreadable': False, 'name': 'Sender key', 'secret': True}
```

[Browse more samples](#)

6.12.1 Name

string	notification/sink_data_item_groups/S/name/
Data item group name	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample uom library read command (note that `_sink_data_item_group` is a variable):

```
print(uom.dump(uom.notification.sink_data_item_groups[_sink_data_item_group].name ↵
↵ ))
```

⇒

"Sender attribute"

Sample requests read command (note that `_sink_data_item_group` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/notification/ ↵
↵ sink_data_item_groups/'+_sink_data_item_group+'/name/', auth=auth, headers= ↵
↵ headers).json())
```

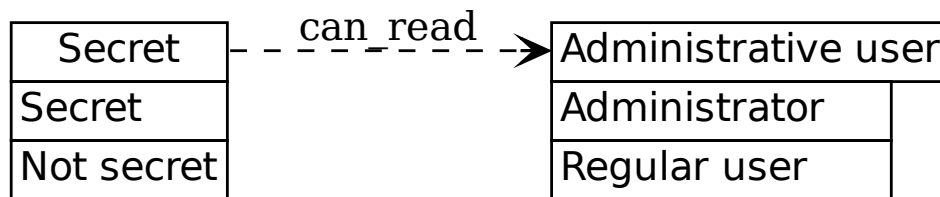
⇒

'Recipient key'

[Browse more samples](#)

6.12.2 Secret

sum (boolean)	notification/sink_data_item_groups/S/secret/
Flag indicating whether the data item can contain private information	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Secret	The data item can contain private information
constant false	Not secret	The data item contains only public information

Sample uom library read command (note that `_sink_data_item_group` is a variable):

```
print(uom.dump(uom.notification.sink_data_item_groups[_sink_data_item_group].
    ↪ secret))
```

⇒

true

Sample requests read command (note that `_sink_data_item_group` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/notification/
    ↪ sink_data_item_groups/'+_sink_data_item_group+'/secret/', auth=auth, headers=
    ↪ headers).json())
```

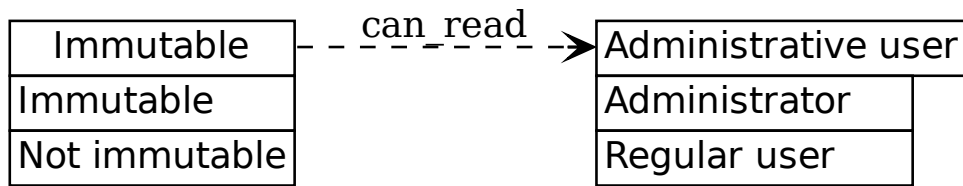
⇒

False

[Browse more samples](#)

6.12.3 Immutable

sum (boolean)	notification/sink_data_item_groups/S/immutable/
Flag indicating whether the data item is not permitted to be changed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Immutable	The data item is not permitted to be changed
constant false	Not immutable	The data item can be changed

Sample `curl` read command (note that `:sink_data_item_group` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/notification/sink_data_item_groups/:sink_data_item_group/immutable ↵
↵ /"
```

⇒

false

Sample CLI read command (note that `sink_data_item_group` is a variable):

```
uom get "notification/sink_data_item_groups/${sink_data_item_group}/immutable"
```

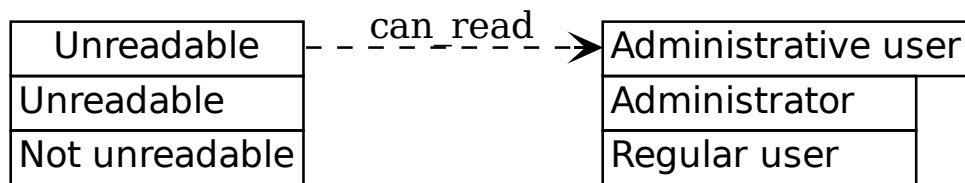
⇒

false

[Browse more samples](#)

6.12.4 Unreadable

sum (boolean)	notification/sink_data_item_groups/S/unreadable/
Flag indicating whether the data item is not permitted to be read	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Unreadable	The data item is not permitted to be read
constant false	Not unreadable	The data item can be read

Sample JS request read command (note that `_sink_data_item_group` is a variable):

```
request.get({url:"notification/sink_data_item_groups/"+_sink_data_item_group+"/ ←
    ↪ unreadable/"},function(error,response,body) {console.log(body)});
```

⇒

false

Sample requests read command (note that `_sink_data_item_group` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/notification/ ←
    ↪ sink_data_item_groups/'+_sink_data_item_group+'/unreadable/',auth=auth, ←
    ↪ headers=headers).json())
```

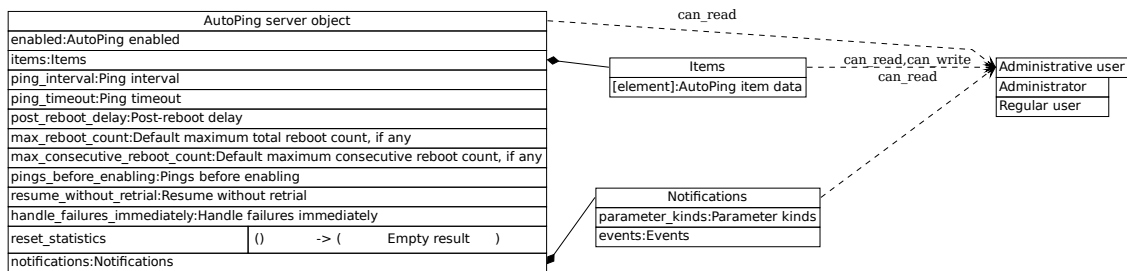
⇒

False

[Browse more samples](#)

7 AutoPing server object

object	autoping/
Object representing the autoping server state and configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

enabled	AutoPing enabled
items	Items
ping_interval	Ping interval
ping_timeout	Ping timeout
post_reboot_delay	Post-reboot delay
max_reboot_count	Default maximum total reboot count, if any
max_consecutive_reboot_count	Default maximum consecutive reboot count, if any
pings_before_enabling	Pings before enabling
resume_without_retrial	Resume without retrial
handle_failures_immediately	Handle failures immediately
reset_statistics	Reset statistics
notifications	Notifications

Sample CLI read command:

```
uom get autoping
```

⇒

...

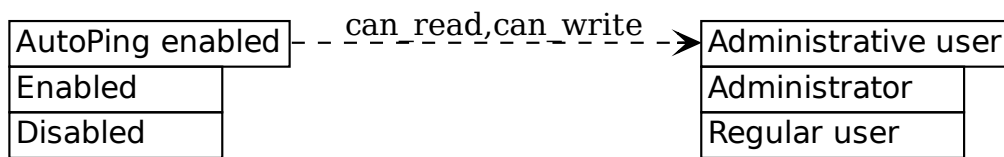
Sample uom library write command:

```
uom.autoping=<...>
```

[Browse more samples](#)

7.1 AutoPing enabled

sum (boolean)	autoping/enabled/
AutoPing global enable status	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample JS request write command:

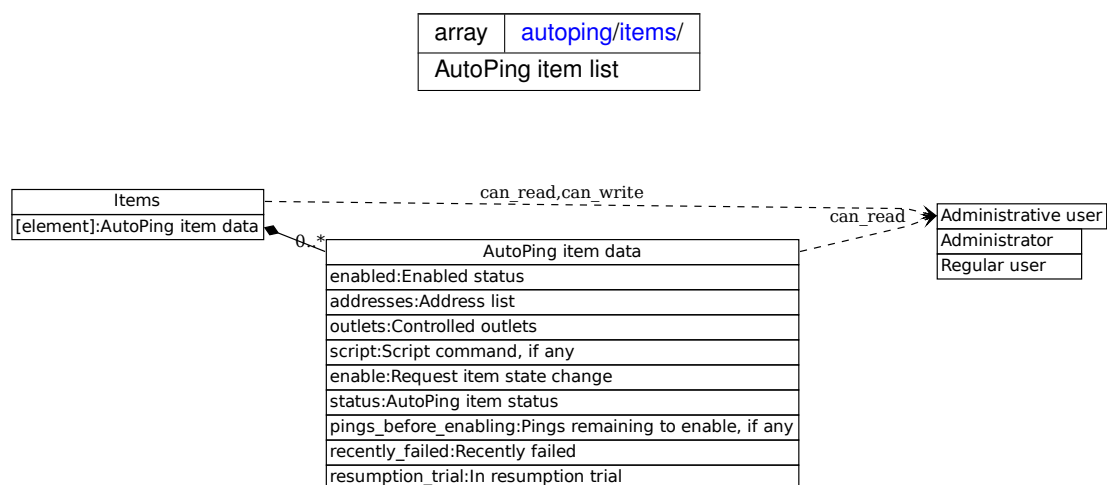
```
request.put ({url:"autoping/enabled/",body:false});
```

Sample uom library write command:

```
uom.autoping.enabled=true
```

[Browse more samples](#)

7.2 Items



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array represents a value in persistent storage.

This array contains [AutoPing item data](#) elements.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/autoping/items/"
```

⇒

...

Sample JS `request` read command:

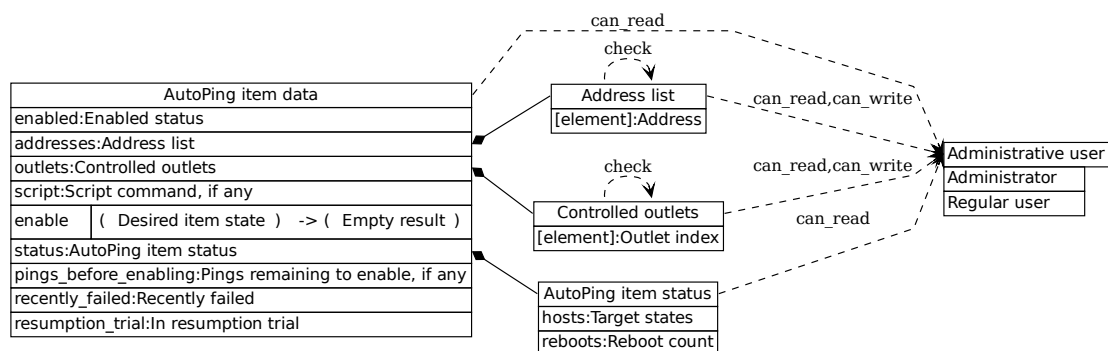
```
request.get({url:"autoping/items/"},function(error,response,body) {console.log( ↵
↵ body)});
```

⇒

[Browse more samples](#)

7.2.1 AutoPing item data

object	autoping/items/N/
Data related to autoping item state and configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

enabled	Enabled status
addresses	Address list
outlets	Controlled outlets
script	Script command, if any
enable	Request item state change

status	AutoPing item status
pings_before_enabling	Pings remaining to enable, if any
recently_failed	Recently failed
resumption_trial	In resumption trial

Sample JS request read command (note that `_autoping_item_data_index` is a variable):

```
request.get({url:"autoping/items/"+_autoping_item_data_index.toString()+"/"},  
  ↪ ↪ function(error,response,body) {console.log(body)});
```

⇒

Sample JS request deletion command (note that `_autoping_item_data_index` is a variable):

```
request.delete({url:"autoping/items/"+_autoping_item_data_index.toString()+"/"});
```

[Browse more samples](#)

See also [AutoPing item data: Enabled status](#)

See also [AutoPing item data: Address list](#)

See also [AutoPing item data: Controlled outlets](#)

See also [AutoPing item data: Script command, if any](#)

See also [AutoPing item data: Request item state change](#)

See also [AutoPing item data: AutoPing item status](#)

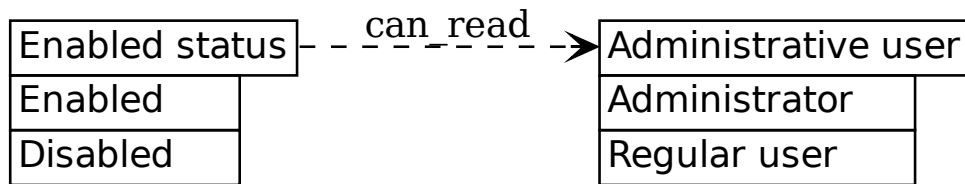
See also [AutoPing item data: Pings remaining to enable, if any](#)

See also [AutoPing item data: Recently failed](#)

See also [AutoPing item data: In resumption trial](#)

7.3 AutoPing item data: Enabled status

sum (boolean)	autoping/items/N/enabled/
Whether this item is enabled (can be triggered)	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI read command (note that `autoping_item_data_index` is a variable):

```
uom get "autoping/items/${autoping_item_data_index}/enabled"
```

⇒

```
false
```

Sample JS request read command (note that `_autoping_item_data_index` is a variable):

```
request.get({url:"autoping/items/"+_autoping_item_data_index.toString()+"/enabled ↵
↵ /"},function(error,response,body) {console.log(body)});
```

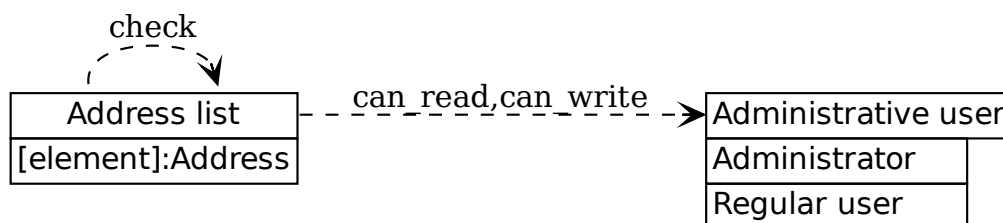
⇒

```
false
```

[Browse more samples](#)

7.4 AutoPing item data: Address list

array	autoping/items/N/addresses/
List of addresses to ping	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

This array contains [Address](#) elements.

Sample CLI address creation command (note that `autoping_item_data_index` is a variable):

```
uom insert "autoping/items/${autoping_item_data_index}/addresses/0" "\"http:// ↵
↵ QDC29.aNEw3Db.E7UD.vaU9uA.zQTQ.bBQMmUtm2.example.com:62313/.2aWH8H/HHRaru/ ↵
↵ EhZzxT/FoUFUK.\""
```

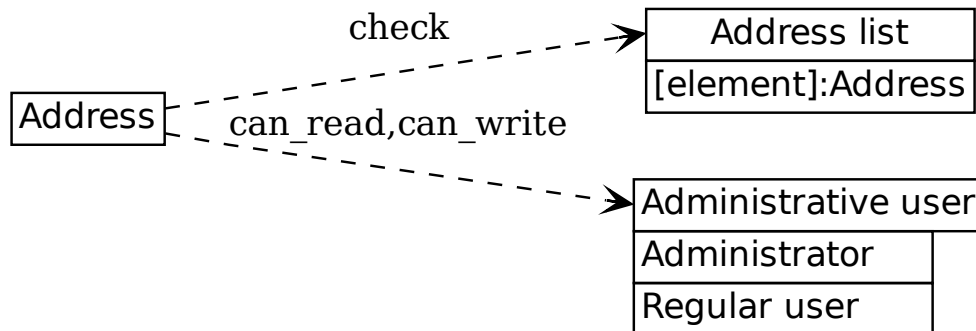
Sample `requests` address creation command (note that `_autoping_item_data_index` is a variable):

```
requests.post('http://192.168.0.100/restapi/autoping/items/'+str( ↵
↵ _autoping_item_data_index)+'addresses/', auth=auth, headers=headers, json=' ↵
↵ https://59.71.203.254/ehFkF1diChJM97/bJCHDiYbt4Ik')
```

[Browse more samples](#)

7.4.1 Address

string	autoping/items/N/addresses/N/
URL to ping (default schema is icmp)	



The value is subject to the following constraints: [address list](#) are distinct

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample JS request read command (note that `_autoping_item_data_index` and `_address_index` are variables):

```
request.get({url:"autoping/items/"+_autoping_item_data_index.toString()+"/"
  ↪ addresses/"+_address_index.toString()+"/"},function(error,response,body) {
  ↪ console.log(body) });
```

⇒

"5.195.2.252"

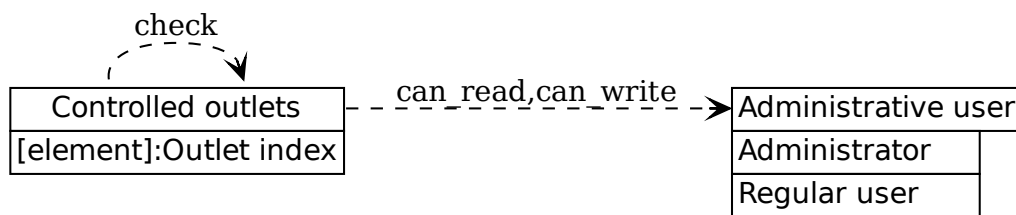
Sample JS request deletion command (note that `_autoping_item_data_index` and `_address_index` are variables):

```
request.delete({url:"autoping/items/"+_autoping_item_data_index.toString()+"/"
  ↪ addresses/"+_address_index.toString()+"/"});
```

[Browse more samples](#)

7.5 AutoPing item data: Controlled outlets

array	autoping/items/N/outlets/
List of outlets to perform specified action on	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

This array contains [Outlet index](#) elements.

Sample CLI outlet index creation command (note that `autoping_item_data_index` is a variable):

```
uom insert "autoping/items/${autoping_item_data_index}/outlets/0" "2"
```

Sample CLI read command (note that `autoping_item_data_index` is a variable):

```
uom get "autoping/items/${autoping_item_data_index}/outlets"
```

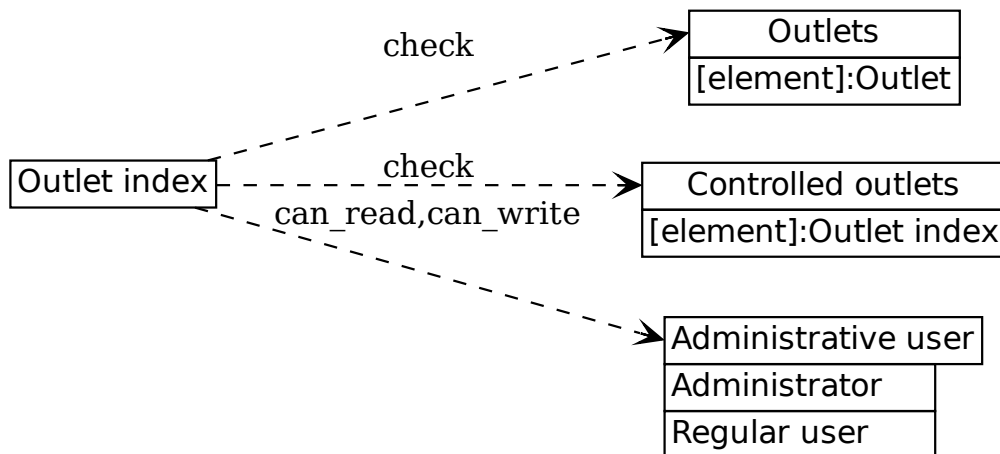
⇒

```
[ ]
```

[Browse more samples](#)

7.5.1 Outlet index

number	autoping/items/N/outlets/N/
Index of outlet to perform action on	



The value is subject to the following constraints: all of the following is true:

- `outlets[the value]`
- `controlled outlets` are distinct

Retrieving the value is denied if not `administrative user`

Changing the value is denied if not `administrative user`

This number is a part of a composite value which is modified as a whole.

This number represents a value in persistent storage.

Sample uom library read command (note that `_autoping_item_data_index` and `_outlet_index_index` are variables):

```
print(uom.dump(uom.autoping.items[_autoping_item_data_index].outlets[↔
↔ _outlet_index_index]))
```

⇒

4

Sample CLI read command (note that `autoping_item_data_index` and `outlet_index_index` are variables):

```
uom get "autoping/items/${autoping_item_data_index}/outlets/${outlet_index_index ↔
↔ }"
```

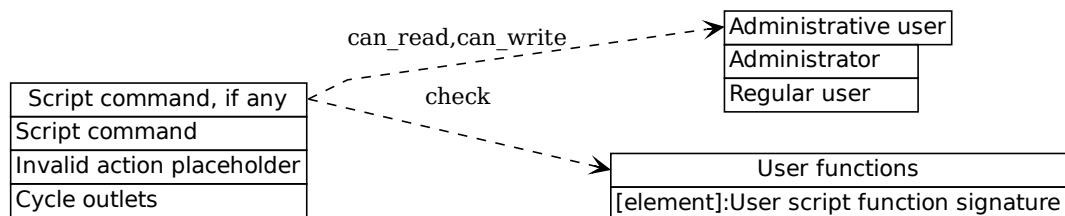
⇒

6

[Browse more samples](#)

7.6 AutoPing item data: Script command, if any

sum (string)	autoping/items/N/script/
Action to perform on selected outlets on failure, or cycle them if empty	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

string	Script command	Action to perform on selected outlets on failure	all of the following is true: - not the value matches $^(.* .*)\\$ user functions[the value]
string	Invalid action placeholder	A placeholder for a failure action that has been deleted or renamed (has no effect other than logging a warning)	the value matches $^autoping\_↔deleted:.*\$$
constant ""	Cycle outlets	Selected outlets are to be cycled on failure	

Sample CLI read command (note that `autoping_item_data_index` is a variable):

```
uom get "autoping/items/${autoping_item_data_index}/script"
```

⇒

```
" "
```

Sample `requests` read command (note that `_autoping_item_data_index` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/autoping/items/'+str(↵↵
    ↵ _autoping_item_data_index)+'script/', auth=auth, headers=headers).json())
```

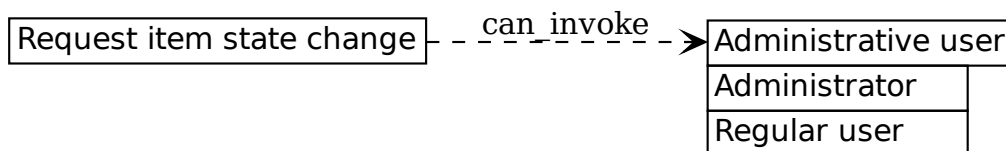
⇒

```
' '
```

[Browse more samples](#)

7.7 AutoPing item data: Request item state change

call	autoping/items/N/enable/
Request the item to enter enabled or disabled status. Disabled status is entered immediately. If the item is disabled, enabling it is n	



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

1. Desired item state: Enabled or Disabled

The call returns the following results:

1. Empty result: null

Sample CLI invocation (note that `autoping_item_data_index` is a variable):

```
uom invoke "autoping/items/${autoping_item_data_index}/enable" "true"
```

⇒

null

Sample uom library invocation (note that `_autoping_item_data_index` is a variable):

```
print (uom.dump (uom.autoping.items[_autoping_item_data_index].enable(false)))
```

⇒

null

[Browse more samples](#)

7.7.1 Desired item state

sum (boolean)	autoping/items/N/enable/arguments: 1/
The state you request the item to switch to	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

7.7.2 Empty result

constant null	autoping/items/N/enable/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

7.8 Target states: Target state

object	autoping/items/N/status/hosts/N/
State of a target subjected to ping	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

address	Address
state	State
state_details	State details, if any
success_count	Success count
failure_count	Failure count
queue_size	Queue size

Sample requests read command (note that `_autoping_item_data_index` and `_target_state_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/autoping/items/'+str(
    ↪ _autoping_item_data_index)+'status/hosts/'+str(_target_state_index)+'/',
    ↪ auth=auth,headers=headers).json())
```

⇒

```
{'state': None, 'success_count': 0, 'address': '4.255.107.192', 'state_details':
    ↪ '4.255.107.192 returned the following error', 'failure_count': 115, '
    ↪ queue_size': 0}
```

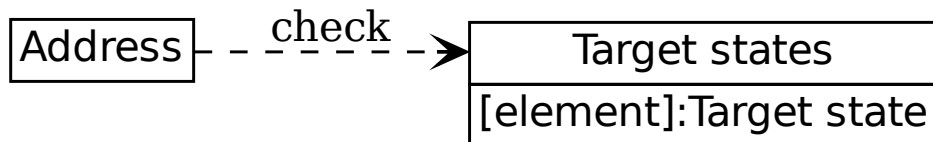
Sample JS request write command (note that `_autoping_item_data_index` and `_target_state_index` are variables):

```
request.put({url:"autoping/items/"+_autoping_item_data_index.toString()+"status/
    ↪ hosts/"+_target_state_index.toString()+"",body:{"state":null,"
    ↪ success_count":0,"address":"5.143.61.241","state_details":null,"
    ↪ failure_count":952,"queue_size":10}});
```

[Browse more samples](#)

7.8.1 Address

string	autoping/items/N/status/hosts/N/address/
Address that is being checked (default schema is icmp)	



The value is subject to the following constraints: address members of all values of [target states](#) are distinct

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

This string can change as if by itself or indirectly because of other actions.

Changes to this string cannot be tracked.

Sample `curl` read command (note that `:autoping_item_data_index` and `:target_state_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/autoping/items/:autoping_item_data_index/status/hosts/: ↵
↵ target_state_index/address/"
```

⇒

```
"tcp://225.50.224.92:61617"
```

Sample `requests` read command (note that `_autoping_item_data_index` and `_target_state_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/autoping/items/'+str( ↵
↵ _autoping_item_data_index)+'status/hosts/'+str(_target_state_index)+' ↵
↵ address/', auth=auth, headers=headers).json())
```

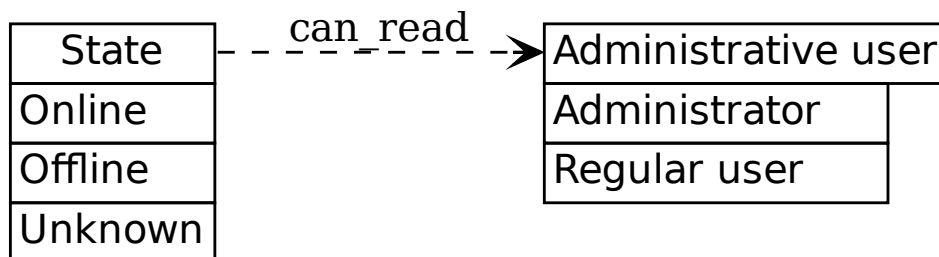
⇒

```
'https://2.253.102.143:14/7cganP.OtDW/GtS1.ja15UlmQW/S6RN/SFnfuJg'
```

[Browse more samples](#)

7.8.2 State

sum (optional boolean)	autoping/items/N/status/hosts/N/state/
Target perceived state	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant true	Online	The target is responding to ping requests
constant false	Offline	The target is not responding to ping requests
constant null	Unknown	Not enough information about target state

Sample `curl` read command (note that `:autoping_item_data_index` and `:target_state_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/autoping/items/:autoping_item_data_index/status/hosts/: ↵
↵ target_state_index/state/"
```

⇒

null

Sample CLI read command (note that `autoping_item_data_index` and `target_state_index` are variables):

```
uom get "autoping/items/${autoping_item_data_index}/status/hosts/${ ↵
↵ target_state_index}/state"
```

⇒

null

[Browse more samples](#)

7.8.3 State details, if any

sum (optional string)	autoping/items/N/status/hosts/N/state_details/
Additional information of target state, if any	

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant null	No details	No additional information available
string	State details	Additional information of target state

Sample uom library read command (note that `_autoping_item_data_index` and `_target_state_index` are variables):

```
print (uom.dump(uom.autoping.items[_autoping_item_data_index].status.hosts[  
    ↪ _target_state_index].state_details))
```

⇒

null

Sample JS request read command (note that `_autoping_item_data_index` and `_target_state_index` are variables):

```
request.get({url:"autoping/items/"+_autoping_item_data_index.toString()+"/status/  
    ↪ hosts/"+_target_state_index.toString()+"/state_details/"},function(error,  
    ↪ response,body) {console.log(body)});
```

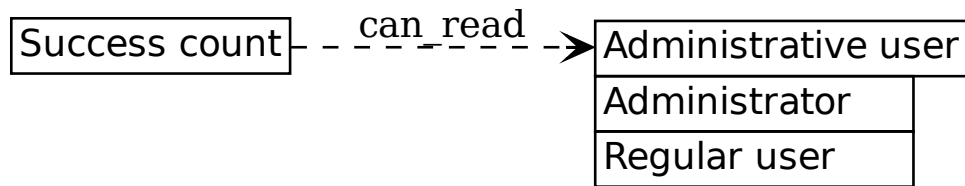
⇒

"201.232.4.0 returned the following error"

[Browse more samples](#)

7.8.4 Success count

number	autoping/items/N/status/hosts/N/success_count/
Number of times this target has responded to a ping request in time	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

Retrieving the value is denied if not **administrative user**

This number is a part of a composite value which is modified as a whole.

This number does not support direct modification.

This number can change as if by itself or indirectly because of other actions.

Changes to this number cannot be tracked.

Sample CLI read command (note that `autoping_item_data_index` and `target_state_index` are variables):

```
uom get "autoping/items/${autoping_item_data_index}/status/hosts/${
↵ target_state_index}/success_count"
```

⇒

2302

Sample uom library read command (note that `_autoping_item_data_index` and `_target_state_index` are variables):

```
print(uom.dump(uom.autoping.items[_autoping_item_data_index].status.hosts[
↵ _target_state_index].success_count))
```

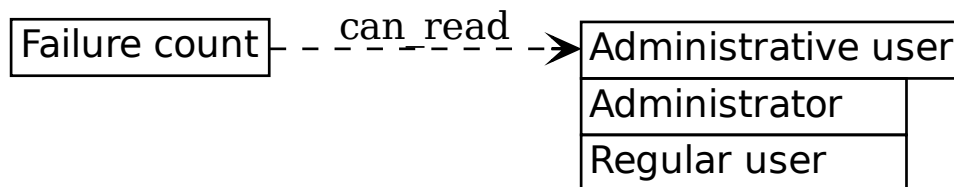
⇒

9685

[Browse more samples](#)

7.8.5 Failure count

number	autoping/items/N/status/hosts/N/failure_count/
Number of times this target has failed to respond to a ping request in time	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

This number does not support direct modification.

This number can change as if by itself or indirectly because of other actions.

Changes to this number cannot be tracked.

Sample `requests` read command (note that `_autoping_item_data_index` and `_target_state_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/autoping/items/'+str(
    _autoping_item_data_index)+'/status/hosts/'+str(_target_state_index)+'/
    failure_count/', auth=auth, headers=headers).json())
```

⇒

405

Sample `curl` read command (note that `:autoping_item_data_index` and `:target_state_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
    restapi/autoping/items/:autoping_item_data_index/status/hosts/:
    target_state_index/failure_count/"
```

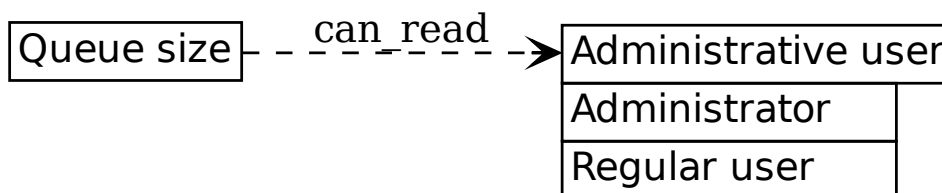
⇒

140

[Browse more samples](#)

7.8.6 Queue size

number	autoping/items/N/status/hosts/N/queue_size/
Number of ping requests to which no replies have yet been received (0 if the parent ping item is not enabled)	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

This number does not support direct modification.

This number can change as if by itself or indirectly because of other actions.

Changes to this number cannot be tracked.

Sample `curl` read command (note that `:autoping_item_data_index` and `:target_state_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/autoping/items/:autoping_item_data_index/status/hosts/: ↵
↵ target_state_index/queue_size/"
```

⇒

7

Sample `uom` library read command (note that `_autoping_item_data_index` and `_target_state_index` are variables):

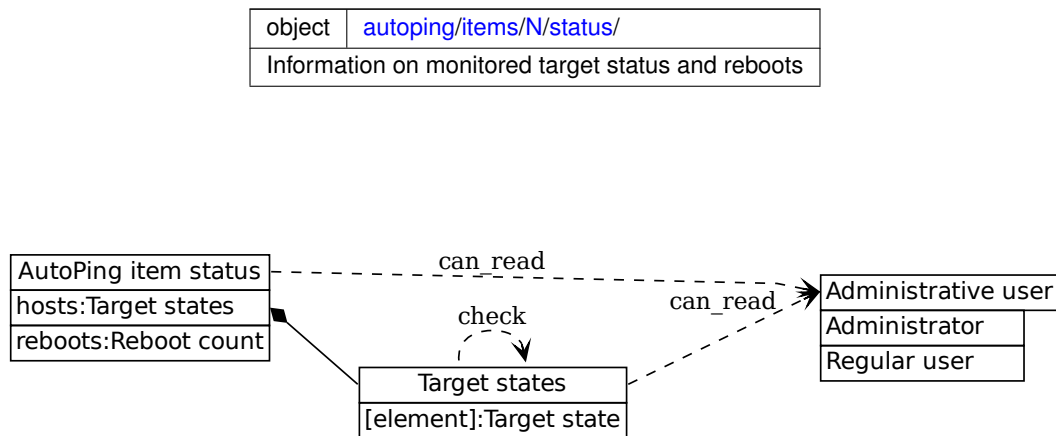
```
print(uom.dump(uom.autoping.items[_autoping_item_data_index].status.hosts[ ↵
↵ _target_state_index].queue_size))
```

⇒

0

[Browse more samples](#)

7.9 AutoPing item data: AutoPing item status



The value is unconditionally set to `{ "reboots" : 0, "hosts" : [] }` on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

This object is composite, i.e. is modified as a whole.

This object does not support direct modification.

This object can change as if by itself or indirectly because of other actions.

Changes to this object cannot be tracked.

This object contains the following items:

hosts	Target states
reboots	Reboot count

Sample CLI read command (note that `autoping_item_data_index` is a variable):

```
uom get "autoping/items/${autoping_item_data_index}/status"
```

⇒

Sample JS request read command (note that `_autoping_item_data_index` is a variable):

```
request.get({url:"autoping/items/"+_autoping_item_data_index.toString()+"/status" ↵
  ↵ "/"},function(error,response,body) {console.log(body)});
```

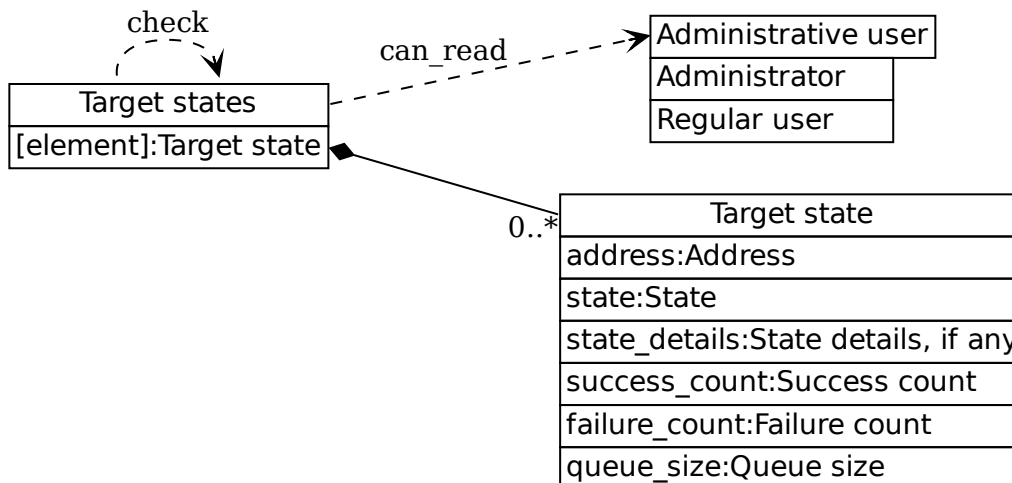
⇒

```
{ "reboots":8, "hosts":[{"state":null, "success_count":3515, "address ↵
  ↵ ": "59.234.251.1", "state_details": "59.234.251.1 returned the following error ↵
  ↵ ", "failure_count":235, "queue_size":4}]}
```

[Browse more samples](#)

7.9.1 Target states

array	autoping/items/N/status/hosts/
States of targets associated with this item	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array can change as if by itself or indirectly because of other actions.

Changes to this array cannot be tracked.

This array represents an unordered set (order of its elements doesn't matter, and each value should not be supplied more than once).

This array contains [Target state](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command (note that `_autoping_item_data_index` is a variable):

```
request.get({url:"autoping/items/"+_autoping_item_data_index.toString()+"/status/ ↵
↵ hosts/"},function(error,response,body){console.log(body)});
```

⇒

Sample curl read command (note that `:autoping_item_data_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/autoping/items/:autoping_item_data_index/status/hosts/"
```

⇒

[Browse more samples](#)

See also [Target states: Target state](#)

7.9.2 Reboot count

number	autoping/items/N/status/reboots/
Number of times this item's action has been triggered	

The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

This number is a part of a composite value which is modified as a whole.

This number does not support direct modification.

This number can change as if by itself or indirectly because of other actions.

Changes to this number cannot be tracked.

Sample requests read command (note that `_autoping_item_data_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/autoping/items/'+str(
    ↪ _autoping_item_data_index)+'status/reboots/', auth=auth, headers=headers) .
    ↪ json())
```

⇒

6

Sample uom library read command (note that `_autoping_item_data_index` is a variable):

```
print(uom.dump(uom.autoping.items[_autoping_item_data_index].status.reboots))
```

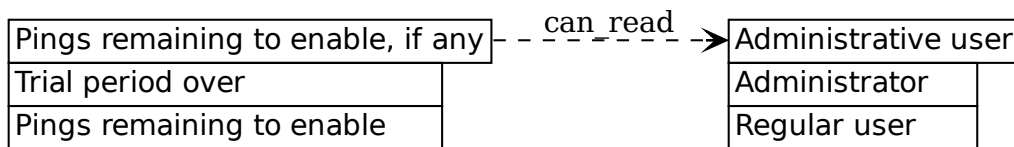
⇒

2

[Browse more samples](#)

7.10 AutoPing item data: Pings remaining to enable, if any

sum (optional number)	autoping/items/N/pings_before_enabling/
Estimate of number of successful ping replies remaining to enable the item, if any	



The value is unconditionally set to `null` on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant null	Trial period over	Item is no longer in the trial state (it is either enabled or disabled)	
number	Pings remaining to enable	Estimate of successful ping replies remaining to enable the item (replies from targets which have already reached the enable threshold do not count)	all of the following is true: • the value is an integer • the value is greater or equal to 0

Sample `requests` read command (note that `_autoping_item_data_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/autoping/items/'+str(↵
    ↵ _autoping_item_data_index)+'pings_before_enabling/', auth=auth, headers=↵
    ↵ headers).json())
```

⇒

None

Sample `curl` read command (note that `:autoping_item_data_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵
    ↵ restapi/autoping/items/:autoping_item_data_index/pings_before_enabling/"
```

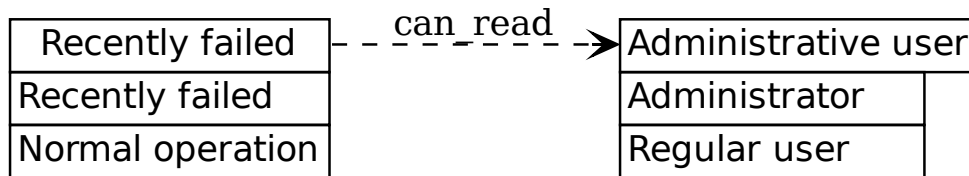
⇒

null

[Browse more samples](#)

7.11 AutoPing item data: Recently failed

sum (boolean)	autoping/items/N/recently_failed/
Flag indicating whether this item has recently failed	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant true	Recently failed	The item has failed recently, and a new failure would be counted as consecutive
constant false	Normal operation	The item is in normal operational state

Sample `requests` read command (note that `_autoping_item_data_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/autoping/items/'+str( ↵
    ↵ _autoping_item_data_index)+'recently_failed/', auth=auth, headers=headers). ↵
    ↵ json()))
```

⇒

```
{ }
```

Sample CLI read command (note that `autoping_item_data_index` is a variable):

```
uom get "autoping/items/${autoping_item_data_index}/recently_failed"
```

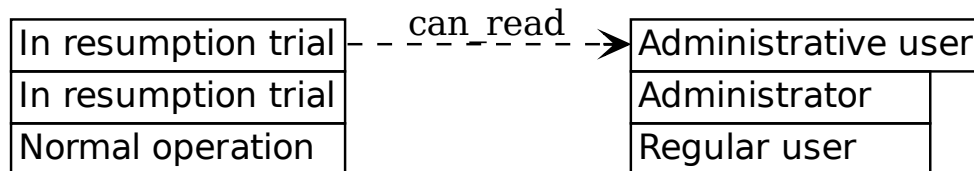
⇒

```
[ ]
```

[Browse more samples](#)

7.12 AutoPing item data: In resumption trial

sum (boolean)	autoping/items/N/resumption_trial/
Flag indicating whether this item is being tried after service restoration	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant true	In resumption trial	Item is being tried after service restoration (failures don't cause it to trigger until the required
constant false	Normal operation	The item is in normal operational state, and may be triggered by failures

Sample uom library read command (note that `_autoping_item_data_index` is a variable):

```
print(uom.dump(uom.autoping.items[_autoping_item_data_index].resumption_trial))
```

⇒

```
{ }
```

Sample JS request read command (note that `_autoping_item_data_index` is a variable):

```
request.get({url:"autoping/items/"+_autoping_item_data_index.toString()+" / ↵
↵ resumption_trial/"},function(error,response,body) {console.log(body)});
```

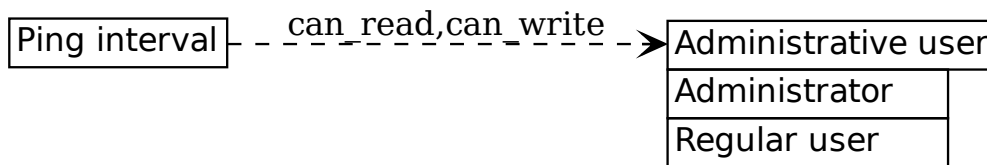
⇒

```
[ ]
```

[Browse more samples](#)

7.13 Ping interval

number	autoping/ping_interval/
Interval between consecutive pings to the same address	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "3" "http ↵
↵ ://192.168.0.100/restapi/autoping/ping_interval/"
```

Sample `uom` library read command:

```
print(uom.dump(uom.autoping.ping_interval))
```

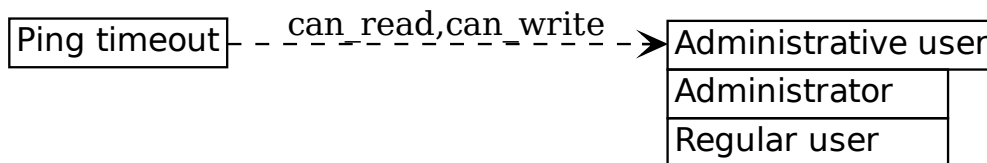
⇒

5

[Browse more samples](#)

7.14 Ping timeout

number	autoping/ping_timeout/
Absence of response this long means the ping has timed out	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample CLI write command:

```
uom set "autoping/ping_timeout" "149"
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/autoping/ping_timeout/"
```

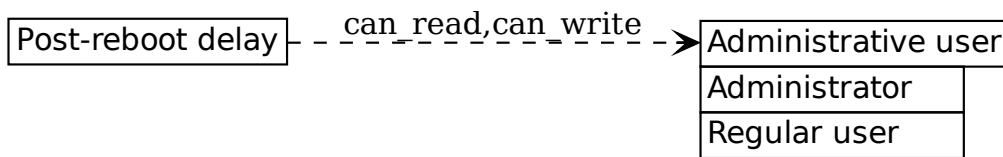
⇒

46

[Browse more samples](#)

7.15 Post-reboot delay

number	autoping/post_reboot_delay/
Time to wait after triggering the AutoPing action before pinging again	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample uom library read command:

```
print (uom.dump (uom.autoping.post_reboot_delay))
```

⇒

414

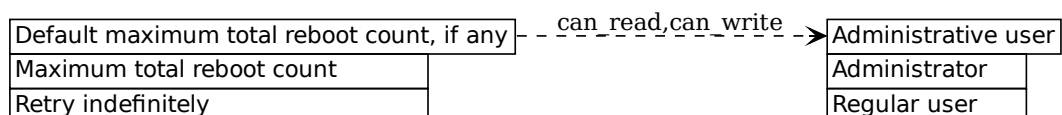
Sample uom library write command:

```
uom.autoping.post_reboot_delay=35
```

[Browse more samples](#)

7.16 Default maximum total reboot count, if any

sum (number)	autoping/max_reboot_count/
Default maximum total number of times to perform the AutoPing action on an entry before giving up, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

number	Maximum total reboot count	Maximum total number of times to perform the AutoPing action on an entry before giving up (counter does not get reset if response is received)	all of the following is true: • the value is an integer • the value is greater than 0
constant 0	Retry indefinitely	Perform the AutoPing action indefinitely no matter how many reboot attempts yielded n	

Sample CLI write command:

```
uom set "autoping/max_reboot_count" "10"
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/autoping/max_reboot_count/"
```

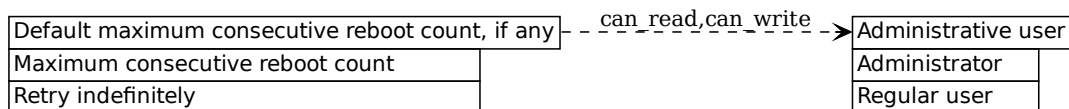
⇒

6

[Browse more samples](#)

7.17 Default maximum consecutive reboot count, if any

sum (number)	autoping/max_consecutive_reboot_count/
Default maximum consecutive number of times to perform the AutoPing action on an entry before giving up, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

number	Maximum consecutive reboot count	Maximum consecutive number of times to perform the Auto↵ Ping action on an entry before giving up (counter gets reset if response is received)	all of the following is true: • the value is an integer • the value is greater than 0
constant 0	Retry indefinitely	Perform the AutoPing action indefinitely no matter how many consecutive reboot attempts yielded n	

Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/autoping/max_consecutive_reboot_count ↵
↳ /', auth=auth, headers=headers, json=66)
```

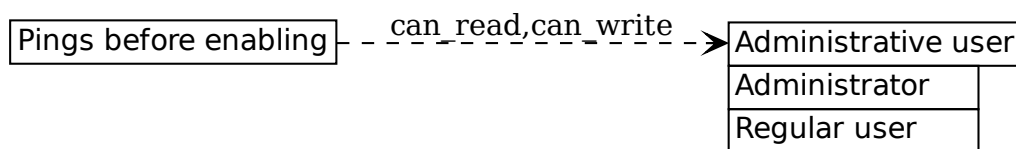
Sample uom library write command:

```
uom.autoping.max_consecutive_reboot_count=29
```

[Browse more samples](#)

7.18 Pings before enabling

number	autoping/pings_before_enabling/
Minimum number of successful ping responses before enabling an AutoPing entry	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample JS request write command:

```
request.put({url:"autoping/pings_before_enabling/", body:8});
```

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/autoping/pings_before_enabling ↵
↳ /', auth=auth, headers=headers).json())
```

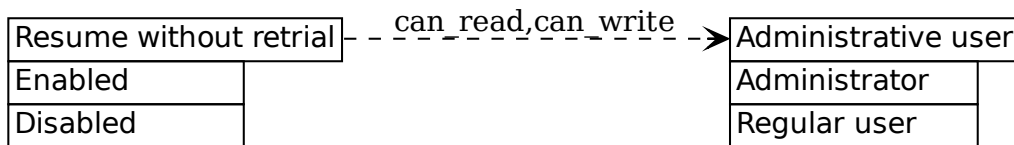
⇒

5

[Browse more samples](#)

7.19 Resume without retrial

sum (boolean)	autoping/resume_without_retrial/
Activate enabled entries when service is restored without waiting for a certain number of successful ping responses	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/↔
↔ json" -H "Accept: application/json" --data-binary "true" "http ↔
↔ ://192.168.0.100/restapi/autoping/resume_without_retrial/"
```

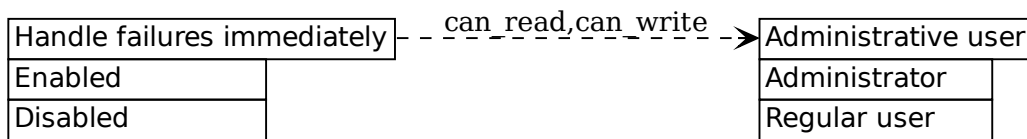
Sample CLI write command:

```
uom set "autoping/resume_without_retrial" "false"
```

[Browse more samples](#)

7.20 Handle failures immediately

sum (boolean)	autoping/handle_failures_immediately/
Detect and act upon explicit failures (e.g. TCP port closed response, HTTP 500, etc.) immediately instead of waiting for timeout	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `uom` library read command:

```
print(uom.dump(uom.autoping.handle_failures_immediately))
```

⇒

true

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/autoping/ ↵
↵ handle_failures_immediately/', auth=auth, headers=headers).json())
```

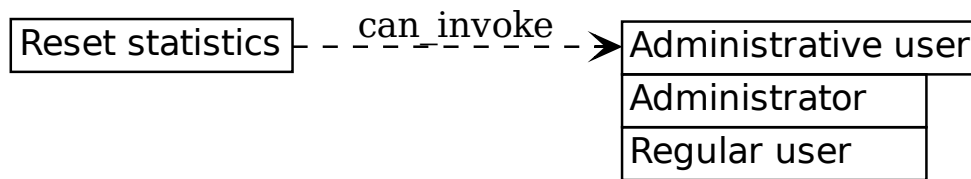
⇒

True

[Browse more samples](#)

7.21 Reset statistics

call	autoping/reset_statistics/
Clear the statistics (item success, failure and reboot counters)	



Performing the function call is denied if not [administrative user](#)

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Empty result: null

Sample requests invocation:

```
print (requests.post('http://192.168.0.100/restapi/autoping/reset_statistics/',
    ↪ auth=auth, headers=headers, json={}).json())
```

⇒

None

Sample JS request invocation:

```
request.post({url:"autoping/reset_statistics/",body:[]});
```

⇒

null

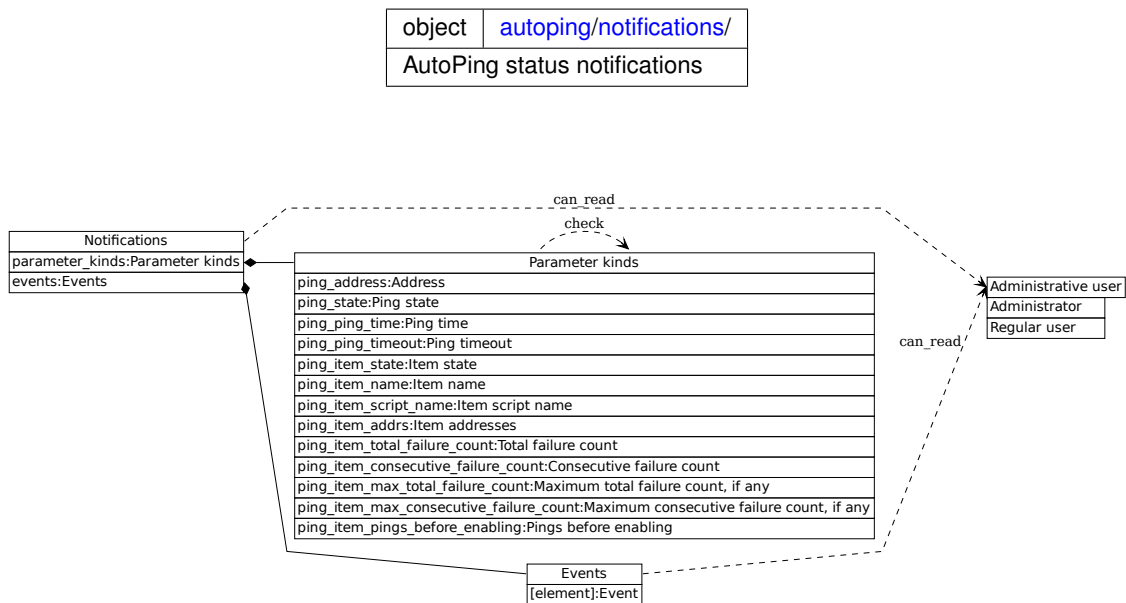
[Browse more samples](#)

7.21.1 Empty result

constant null	autoping/reset_statistics/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

7.22 Notifications



Retrieving the value is denied if not [administrative user](#)

This object does not support direct modification.

This object contains the following items:

parameter_kinds	Parameter kinds
events	Events

Sample CLI read command:

```
uom get "autoping/notifications"
```

⇒

...

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/autoping/notifications/', auth= ↵
    ↵ auth, headers=headers).json())
```

⇒

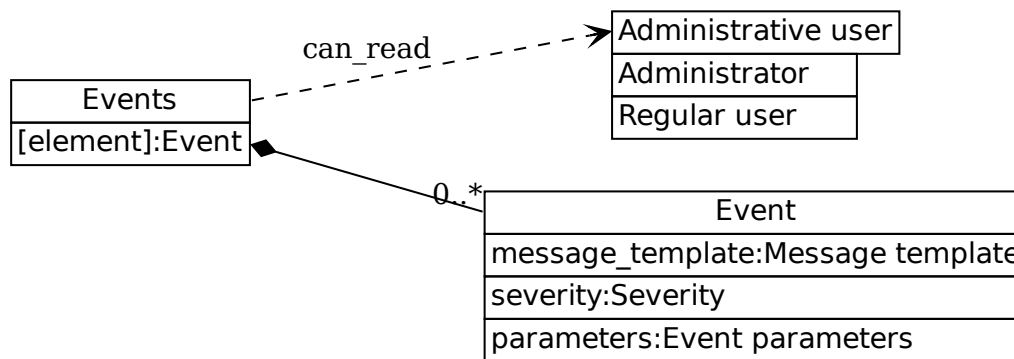
<...>

[Browse more samples](#)

See also [Notifications: Parameter kinds](#)

7.22.1 Events

map	autoping/notifications/events/
Event templates	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Event](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/autoping/notifications/events/"
```

⇒

...

Sample JS request read command:

```
request.get ({url:"autoping/notifications/events/"},function(error,response,body) ↵
↵ {console.log(body)});
```

⇒

<...>

[Browse more samples](#)

See also [Events: Event](#)

7.23 Notifications: Parameter kinds

object	autoping/notifications/parameter_kinds/
Kinds of event parameters	

This object does not correspond to an actual resource.

This object contains the following items:

ping_address	Address
ping_state	Ping state
ping_ping_time	Ping time
ping_ping_timeout	Ping timeout
ping_item_state	Item state
ping_item_name	Item name
ping_item_script_name	Item script name
ping_item_addrs	Item addresses
ping_item_total_failure_count	Total failure count
ping_item_consecutive_failure_count	Consecutive failure count
ping_item_max_total_failure_count	Maximum total failure count, if any
ping_item_max_consecutive_failure_count	Maximum consecutive failure count, if any
ping_item_pings_before_enabling	Pings before enabling

7.23.1 Address

string	autoping/notifications/parameter_kinds/ping_address/
Address of ping target	

7.23.2 Ping state

sum (variant)	autoping/notifications/parameter_kinds/ping_state/
State of the target ping request	

This sum can assume the following values:

constant true	Reachable	The target has responded to the ping
constant false	Unreachable	The ping has timed out
constant "sent"	Sent	The ping has been sent but no response yet seen, and timeout not reached

7.23.3 Ping time

number	autoping/notifications/parameter_kinds/ping_ping_time/
The time it took to arrive at this ping state	

The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater or equal to 0

7.23.4 Ping timeout

number	autoping/notifications/parameter_kinds/ping_ping_timeout/
The time after which the ping is considered unsuccessful if no response seen	

The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

7.23.5 Item state

sum (variant)	autoping/notifications/parameter_kinds/ping_item_state/
State of the AutoPing item	

This sum can assume the following values:

constant true	Enabled	The AutoPing item is enabled
constant false	Disabled	The AutoPing item is disabled
constant "enabling"	Enabling	The AutoPing item is in trial state

7.23.6 Item name

string	autoping/notifications/parameter_kinds/ping_item_name/
Name of the AutoPing item	

7.23.7 Item script name

string	autoping/notifications/parameter_kinds/ping_item_script_name/
Name of the scripting function associated with the AutoPing item	

7.23.8 Item addresses

string	autoping/notifications/parameter_kinds/ping_item_addrs/
Comma-separated list of addresses belonging to this item	

7.23.9 Total failure count

number	autoping/notifications/parameter_kinds/ping_item_total_failure_count/
Total number of times the item has failed	

The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater or equal to 0

7.23.10 Consecutive failure count

number	autoping/notifications/parameter_kinds/ping_item_consecutive_failure_count/
Number of times the item has failed consecutively	

The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

7.23.11 Maximum total failure count, if any

sum (optional number)	autoping/notifications/parameter_kinds/ping_item_max_total_failure_count/
Number of total failures after which the item becomes disabled, if any	

This sum can assume the following values:

constant null	Retry indefinitely	The action will be performed regardless of the number of total failures	
number	Maximum total failure count	Number of total failures after which the item becomes disabled	all of the following is true: • the value is an integer • the value is greater or equal to 0

7.23.12 Maximum consecutive failure count, if any

sum (optional number)	autoping/notifications/parameter_kinds/ping_item_max_consecutive_failure_count/
Number of consecutive failures after which the item becomes disabled, if any	

This sum can assume the following values:

constant null	Retry indefinitely	The action will be performed regardless of the number of consecutive failures	
number	Maximum consecutive failure count	Number of consecutive failures after which the item becomes disabled	all of the following is true: • the value is an integer • the value is greater or equal to 0

7.23.13 Pings before enabling

number	autoping/notifications/parameter_kinds/ping_item_pings_before_enabling/
Number of successful pings left to enable the AutoPing item	

The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

7.24 Event parameters: Event parameter

object	autoping/notifications/events/S/parameters/N/
Properties of a parameter associated with the event	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

id	Identifier
has_fixed_value	Fixed value flag
fixed_value	Fixed value

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "autoping/notifications/events/${event}/parameters/${  
↪ event_parameter_index}"
```

⇒

```
{"fixed_value":null,"has_fixed_value":false,"id":"ping_item_addrns"}
```

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"autoping/notifications/events/"+_event+"/parameters/"+  
↪ _event_parameter_index.toString()+"/"},function(error,response,body) {  
↪ console.log(body)});
```

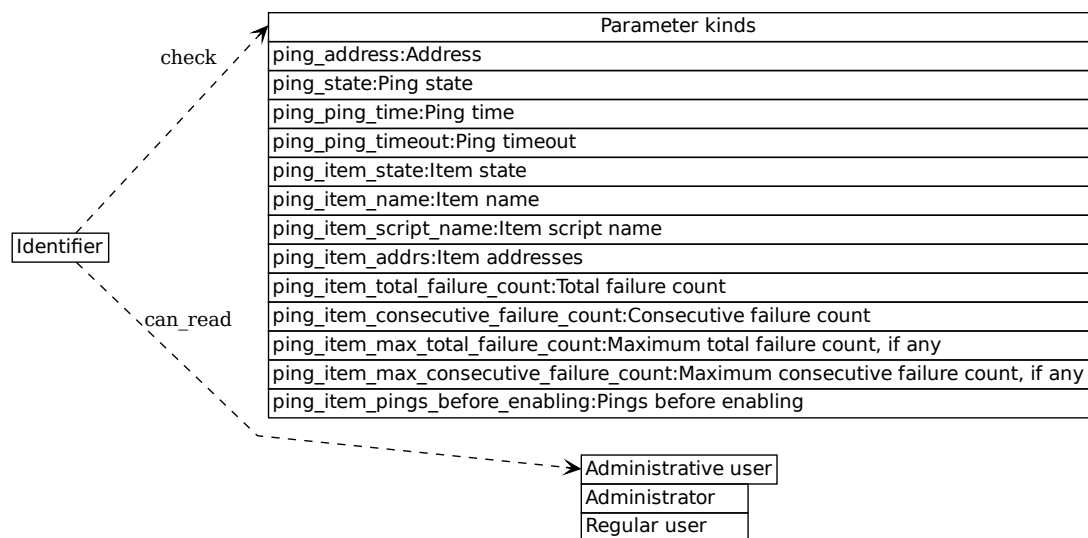
⇒

```
{"fixed_value":null,"has_fixed_value":false,"id":"ping_address"}
```

[Browse more samples](#)

7.24.1 Identifier

string	autoping/notifications/events/S/parameters/N/id/
Parameter identifier	



The value is subject to the following constraints: [parameter kinds\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"autoping/notifications/events/"+_event+"/parameters/"+
  ↳ _event_parameter_index.toString()+"/id/"},function(error,response,body) {
  ↳ console.log(body) });
```

⇒

"ping_item_addrs"

Sample requests read command (note that `_event` and `_event_parameter_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/autoping/notifications/events/'+
  ↳ _event+'/parameters/'+str(_event_parameter_index)+'/id/',auth=auth,headers=
  ↳ headers).json())
```

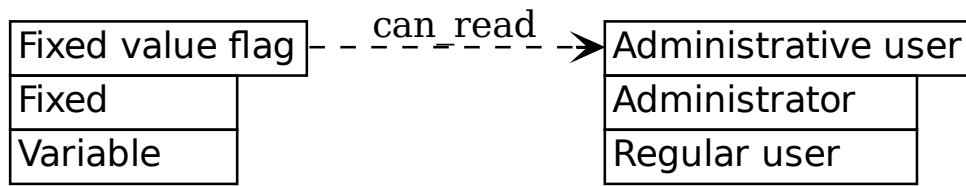
⇒

'ping_item_name'

[Browse more samples](#)

7.24.2 Fixed value flag

sum (boolean)	autoping/notifications/events/S/parameters/N/has_fixed_value/
Flag indicating that the parameter's value for this event is fixed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Fixed	The value is fixed
constant false	Variable	The value is variable

Sample `uom library read` command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.autoping.notifications.events[_event].parameters[↵
↵ _event_parameter_index].has_fixed_value))
```

⇒

false

Sample `requests read` command (note that `_event` and `_event_parameter_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/autoping/notifications/events/'+↵
↵ _event+'/parameters/'+str(_event_parameter_index)+'/has_fixed_value/', auth=↵
↵ auth, headers=headers).json())
```

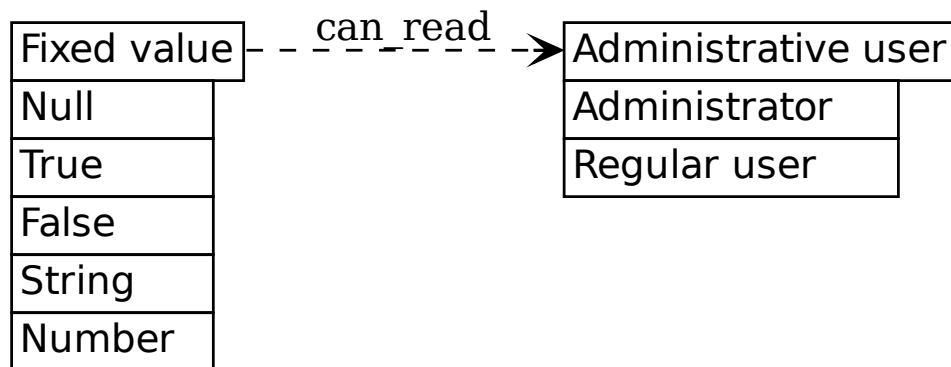
⇒

False

[Browse more samples](#)

7.24.3 Fixed value

sum (variant)	autoping/notifications/events/S/parameters/N/fixed_value/
Fixed parameter value for this particular event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.autoping.notifications.events[_event].parameters[↵
↵ _event_parameter_index].fixed_value))
```

⇒

null

Sample curl read command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵
↵ restapi/autoping/notifications/events/:event/parameters/:↵
↵ event_parameter_index/fixed_value/"
```

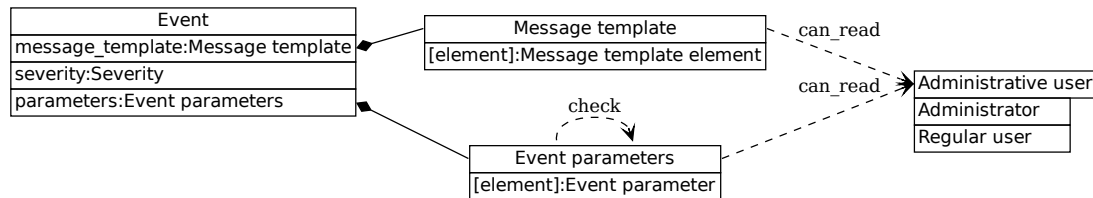
⇒

null

[Browse more samples](#)

7.25 Events: Event

object	autoping/notifications/events/S/
Event template	



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

message_template	Message template
severity	Severity
parameters	Event parameters

Sample `uom` library read command (note that `_event` is a variable):

```
print(uom.dump(uom.autoping.notifications.events[_event]))
```

⇒

Sample `requests` read command (note that `_event` is a variable):

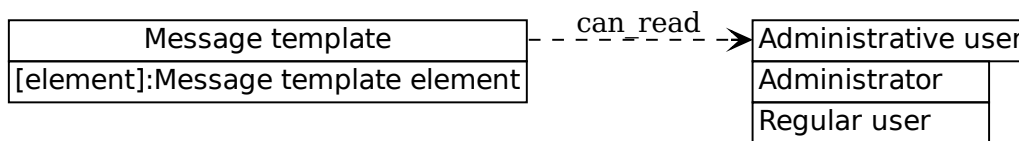
```
print(requests.get('http://192.168.0.100/restapi/autoping/notifications/events/'+
    ↪ _event+'/', auth=auth, headers=headers).json())
```

⇒

[Browse more samples](#)

7.25.1 Message template

array	autoping/notifications/events/S/message_template/
Template for human-readable message generation	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Message template element](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"autoping/notifications/events/"+_event+"/message_template/"}, ↵
  ↵ function(error,response,body) {console.log(body)});
```

⇒

```
["ping ",0," not received (" ,1,"), possibly due to local network outage, not ↵
  ↵ considered a failure unless during trial"]
```

Sample CLI read command (note that `event` is a variable):

```
uom get "autoping/notifications/events/${event}/message_template"
```

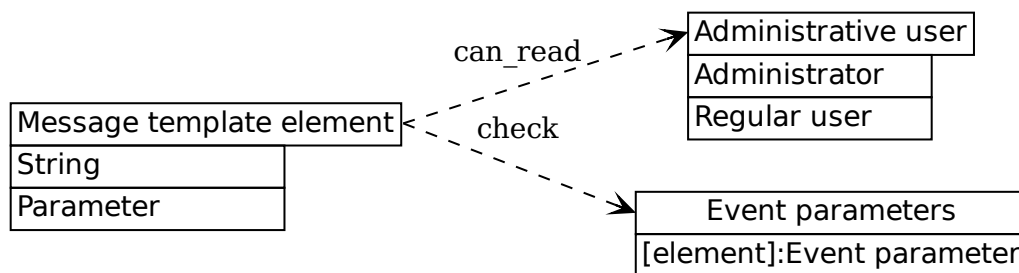
⇒

```
["ping ",0," not received (" ,1,"), possibly due to local network outage, not ↵
  ↵ considered a failure unless during trial"]
```

[Browse more samples](#)

sum (variant)	autoping/notifications/events/S/message_template/N/
Element of human-readable message template	

7.25.1.1 Message template element



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

string	String	Fixed string	
number	Parameter	Index of message parameter to insert	event parameters[the value]

Sample CLI read command (note that `event` and `message_template_element_index` are variables):

```
uom get "autoping/notifications/events/${event}/message_template/${
  ↪ message_template_element_index}"
```

⇒

" ("

Sample `requests` read command (note that `_event` and `_message_template_element_index` are variables):

```
print (requests.get('http://192.168.0.100/restapi/autoping/notifications/events/' +
  ↪ _event + '/message_template/' + str(_message_template_element_index) + '/', auth=
  ↪ auth, headers=headers).json())
```

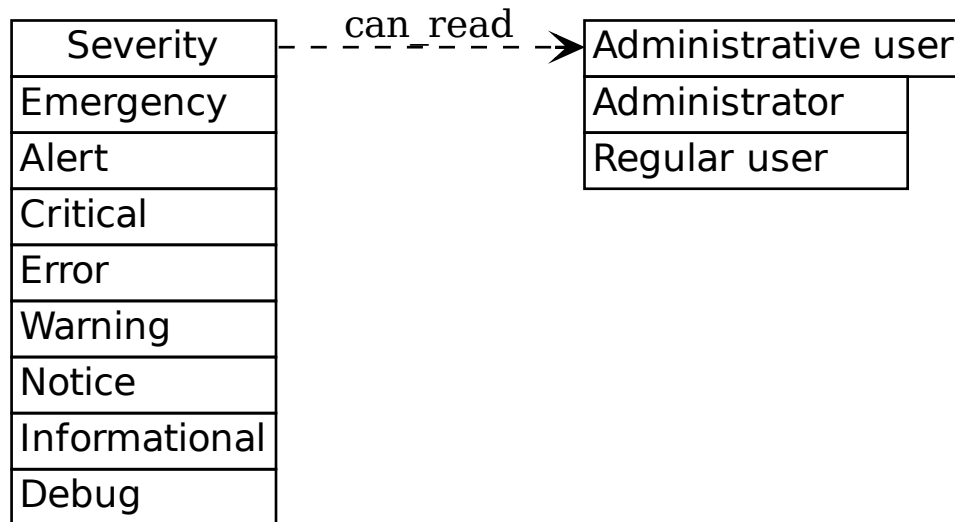
⇒

1

[Browse more samples](#)

7.25.2 Severity

sum (enumerated number)	autoping/notifications/events/S/severity/
Severity rating assigned to the event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant 1	Emergency	Treat the event as an emergency
constant 2	Alert	Treat the event as an alert
constant 3	Critical	Treat the event as critical
constant 4	Error	Treat the event as an error
constant 5	Warning	Treat the event as a warning
constant 6	Notice	Treat the event as a notice
constant 7	Informational	Treat the event as informational
constant 8	Debug	Treat the event as debugging-related

Sample uom library read command (note that `_event` is a variable):

```
print(uom.dump(uom.autoping.notifications.events[_event].severity))
```

⇒

7

Sample requests read command (note that `_event` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/autoping/notifications/events/'+ ←
    ↳ _event+'/severity/',auth=auth,headers=headers).json())
```

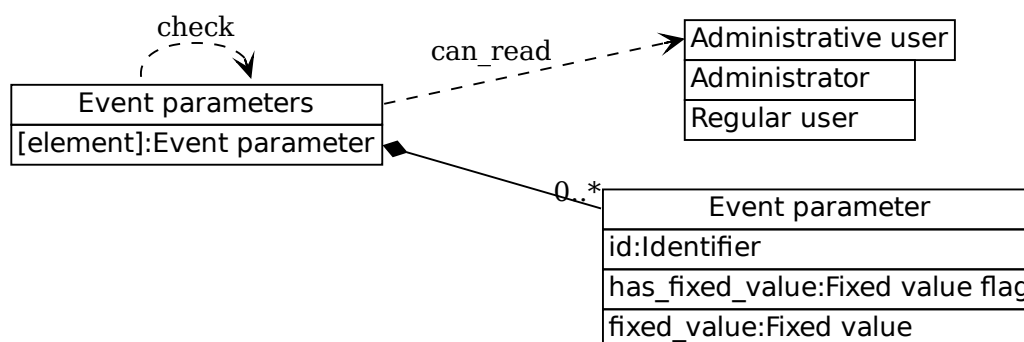
⇒

7

[Browse more samples](#)

7.25.3 Event parameters

array	autoping/notifications/events/S/parameters/
Additional data associated with the event	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Event parameter](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command (note that `_event` is a variable):

```
print(uom.dump(uom.autoping.notifications.events[_event].parameters))
```

⇒

Sample curl read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/autoping/notifications/events/:event/parameters/"
```

⇒

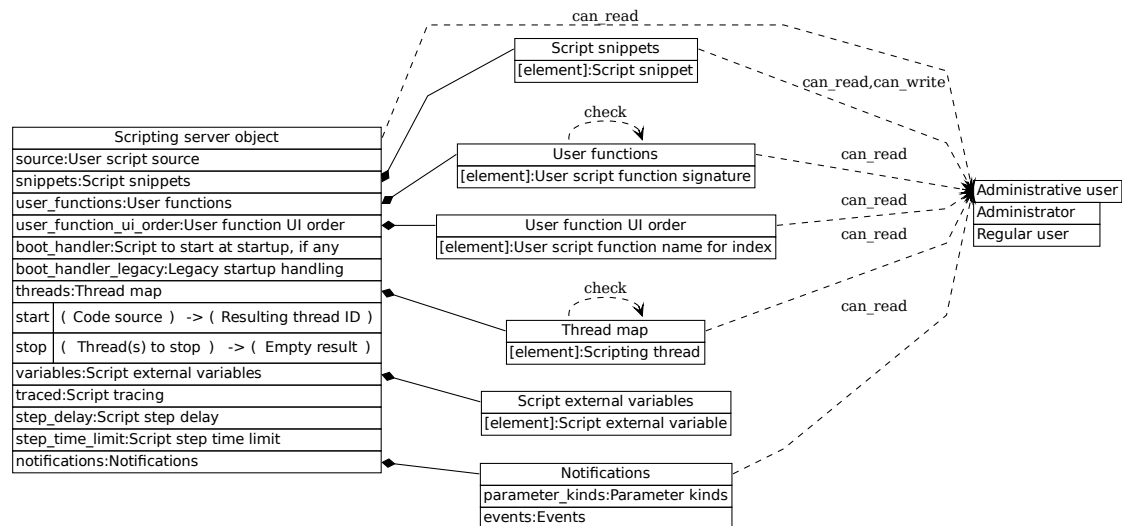
```
[{"fixed_value":null,"has_fixed_value":false,"id":"ping_address"}, {"fixed_value": ↵
↵ null,"has_fixed_value":false,"id":"ping_ping_time"}]
```

[Browse more samples](#)

See also [Event parameters: Event parameter](#)

8 Scripting server object

object	script/
Object representing the scripting server state and configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

source	User script source
snippets	Script snippets
user_functions	User functions
user_function_ui_order	User function UI order
boot_handler	Script to start at startup, if any
boot_handler_legacy	Legacy startup handling
threads	Thread map
start	Start a script thread
stop	Stop a script thread
variables	Script external variables
traced	Script tracing
step_delay	Script step delay
step_time_limit	Script step time limit
notifications	Notifications

Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "... " "http ↵
↵ ://192.168.0.100/restapi/script/"
```

Sample JS request read command:

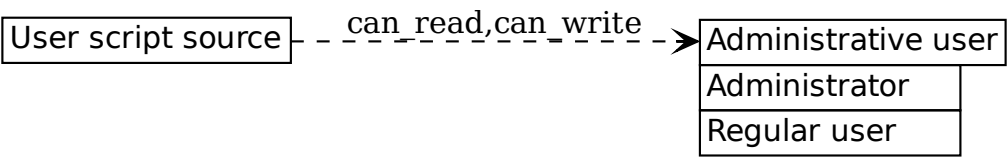
```
request.get({url:"script/"},function(error,response,body) {console.log(body)});
```

⇒
<...>

[Browse more samples](#)

8.1 User script source

string	script/source/
Source of the user script from which user functions are extracted	



The value contains Lua source (has native MIME type `text/x-lua`).

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample uom library write command:

```
uom.script.source="function toggle_contraption(...)\n    ...\\nend\\nfunction shut_down_modem(...)\n    ...\\nend\\nfunction energize_gadget(...)\n    ...\\nend\\nfunction enable_appliance(...)\n    ...\\nend\\n\n"
```

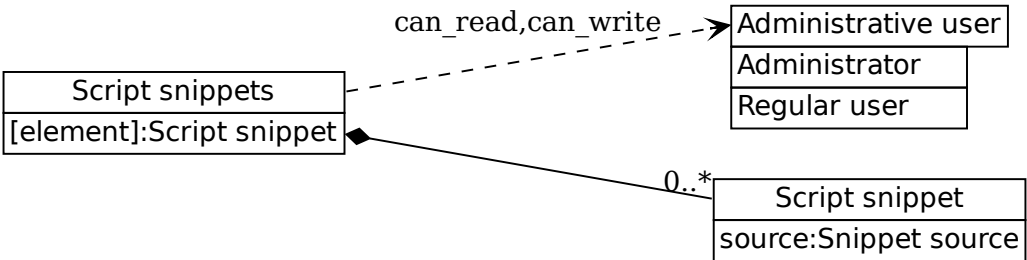
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/↵  
↵ json" -H "Accept: application/json" --data-binary "\"function ↵  
↵ energize_engines(...)\n ...\\nend\\nfunction enable_gadget(...)\n ...\\n ↵  
↵ nend\\n\"" "http://192.168.0.100/restapi/script/source/"
```

[Browse more samples](#)

8.2 Script snippets

map	script/snippets/
Fragments of Lua code provided initially as samples or saved for later use	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This map represents a value in persistent storage.

Changes to this map cannot be tracked.

This map contains [Script snippet](#) elements.

Sample uom library script snippet creation command:

```
uom.insert(uom.script.snippets,"shut_down_contraption_sample",{source="function
    ↪ shut_down_appliance(...)↪
    ...↪
end↪
function shut_down_engines(...)↪
    ...↪
end↪
function energize_router(...)↪
    ...↪
end↪
function energize_engines(...)↪
    ...↪
end↪
"})
```

Sample CLI write command:

```
uom set "script/snippets" "{ \"shut_down_contraptions_sample\": { \"source\": \"
    ↪ function cycle_gadgets(...)\\n ...\\nend\\nfunction cycle_engines(...)\\n
    ↪ ...\\nend\\n\" }, \"enable_router_sample\": { \"source\": \"function
    ↪ disable_appliance(...)\\n ...\\nend\\nfunction shut_down_gadgets(...)\\n
    ↪ ...\\nend\\nfunction enable_heater(...)\\n ...\\nend\\n\" } }"
```

[Browse more samples](#)

See also [Script snippets: Script snippet](#)

8.3 Script snippets: Script snippet

object	script/snippets/S/
User script snippet	

This object contains the following items:

source	Snippet source

Sample `uom library read` command (note that `_script_snippet` is a variable):

```
print (uom.dump (uom.script.snippets[_script_snippet]))
```

⇒

```
{source="function shut_down_gadget (...)\n
... \n
end \n
"} }
```

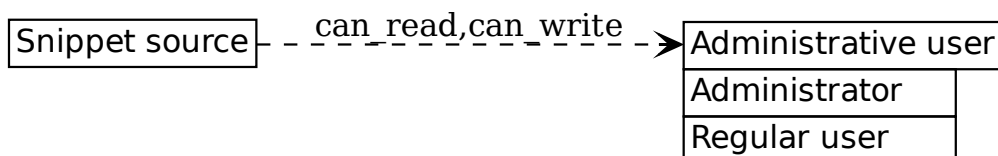
Sample `requests write` command (note that `_script_snippet` is a variable):

```
requests.put ('http://192.168.0.100/restapi/script/snippets/'+_script_snippet+'/', ←
    ↪ auth=auth,headers=headers,json={'source': 'function cycle_appliances (...)\n ←
    ↪ ... \nend \nfunction toggle_router (...)\n ... \nend \n'})
```

[Browse more samples](#)

8.3.1 Snippet source

string	script/snippets/S/source/
Source of the snippet	



The value contains Lua source (has native MIME type `text/x-lua`).

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Changes to this string cannot be tracked.

Sample `curl write` command (note that `:script_snippet` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"function cycle_heaters ↵
↵ (...)\n ...\\nend\\nfunction energize_modem(...)\n ...\\nend\\n\" \"http ↵
↵ ://192.168.0.100/restapi/script/snippets/:script_snippet/source/"
```

Sample JS request read command (note that `_script_snippet` is a variable):

```
request.get({url:"script/snippets/"+_script_snippet+"/source/"},function(error, ↵
↵ response,body) {console.log(body)});
```

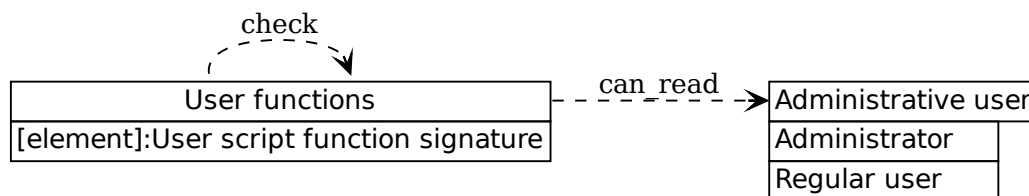
⇒

```
"function enable_modems(...)\n ...\\nend\\nfunction cycle_modem(...)\n ...\\nend ↵
↵ nfunction disable_heaters(...)\n ...\\nend\\nfunction enable_machine(...)\n ↵
↵ ...\\nend\\nfunction cycle_router(...)\n ...\\nend\\n"
```

[Browse more samples](#)

8.4 User functions

map	script/user_functions/
Mapping of user function names to their signatures	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map can change as if by itself or indirectly because of other actions.

Changes to this map cannot be tracked.

This map contains [User script function signature](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print(uom.dump(uom.script.user_functions))
```

⇒

```
{}
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/script/user_functions/"
```

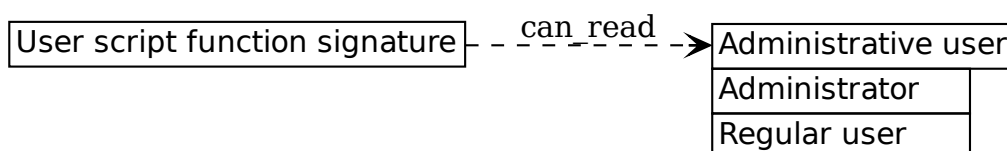
```
⇒
```

```
[]
```

[Browse more samples](#)

8.4.1 User script function signature

string	script/user_functions/S/
Indicates that the map key is a user script function, and provides a signature which may serve as a hint as to the function content	



The value is subject to the following constraints: not index of the value matches `^(|.*|.*)$`

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample `curl` read command (note that `:user_script_function_signature` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/script/user_functions/:user_script_function_signature/"
```

```
⇒
```

```
[]
```

Sample JS request read command (note that `_user_script_function_signature` is a variable):

```
request.get({url:"script/user_functions/"+_user_script_function_signature+"/"}, ↵
↵ function(error,response,body) {console.log(body)});
```

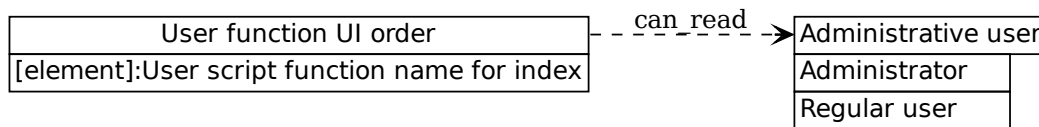
```
⇒
```

```
[]
```

[Browse more samples](#)

8.5 User function UI order

array	script/user_function_ui_order/
Preferred order of user functions when displayed to user	



Retrieving the value is denied if not [administrative user](#)

This array is composite, i.e. is modified as a whole.

This array does not support direct modification.

This array can change as if by itself or indirectly because of other actions.

Changes to this array cannot be tracked.

This array contains [User script function name for index](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print(uom.dump(uom.script.user_function_ui_order))
```

⇒

```
{ "cycle_engine", "energize_modems", "shut_down_modems", "cycle_machines", " ↵
  ↵ disable_gadgets" }
```

Sample JS request read command:

```
request.get({url:"script/user_function_ui_order/"},function(error,response,body) ↵
  ↵ {console.log(body)});
```

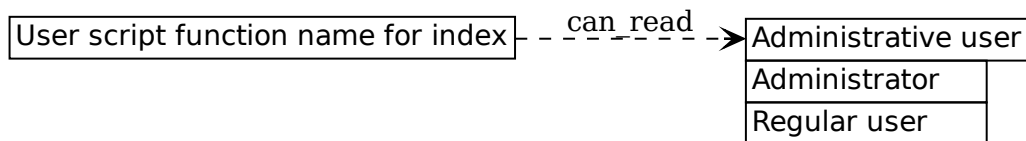
⇒

```
[ ]
```

[Browse more samples](#)

8.5.1 User script function name for index

string	script/user_function_ui_order/N/
Indicates that the preferred location of this user function in a list is the index in the array; may specify a nonexistent function	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample JS request read command (note that `_user_script_function_name_for_index_index` is a variable):

```
request.get({url:"script/user_function_ui_order/"+
  ↳ _user_script_function_name_for_index_index.toString()+"/"},function(error,
  ↳ response,body) {console.log(body)});
```

⇒

"cycle_heaters"

Sample uom library read command (note that `_user_script_function_name_for_index_index` is a variable):

```
print(uom.dump(uom.script.user_function_ui_order[
  ↳ _user_script_function_name_for_index_index]))
```

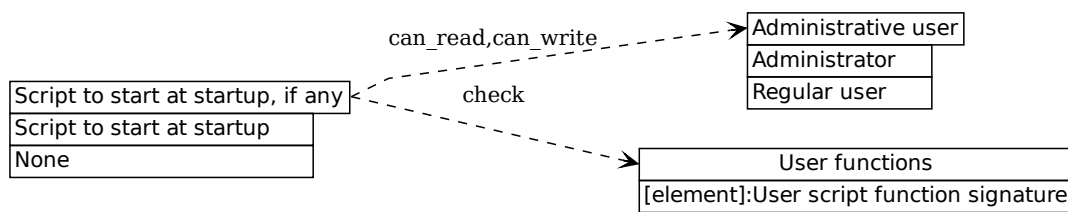
⇒

"disable_router"

[Browse more samples](#)

8.6 Script to start at startup, if any

sum (string)	script/boot_handler/
User scripting function to run at startup, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

string	Script to start at startup	User scripting function to run at startup, with the startup reason as argument (or only at cold boot if configured to)	user functions[the value]
constant ""	None	Don't run any scripting function at startup	

Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/script/boot_handler/', auth=auth, ↵
↵ headers=headers, json='')
```

Sample `uom` library read command:

```
print(uom.dump(uom.script.boot_handler))
```

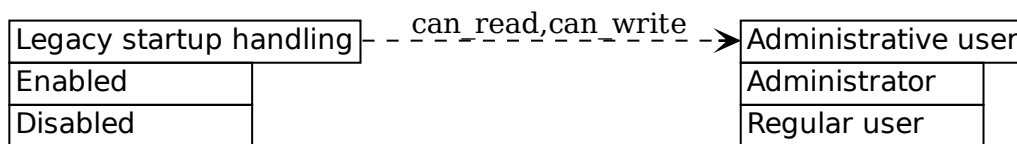
⇒

""

[Browse more samples](#)

8.7 Legacy startup handling

sum (boolean)	script/boot_handler_legacy/
Run startup script only on cold boot and omit the argument	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `uom library read` command:

```
print(uom.dump(uom.script.boot_handler_legacy))
```

⇒

```
true
```

Sample `requests read` command:

```
print(requests.get('http://192.168.0.100/restapi/script/boot_handler_legacy/', ↵
    ↵ auth=auth,headers=headers).json())
```

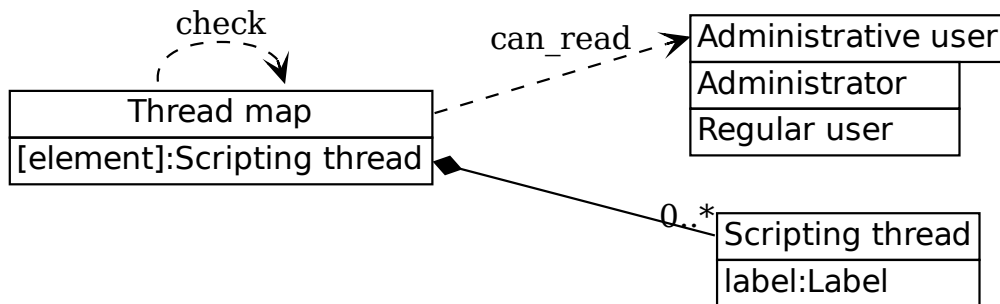
⇒

```
False
```

[Browse more samples](#)

8.8 Thread map

map	script/threads/
Map of user scripting threads	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map can change as if by itself or indirectly because of other actions.

Changes to this map cannot be tracked.

This map contains [Scripting thread](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print(uom.dump(uom.script.threads))
```

⇒

```
{["4"]={label="label of thread #4"},["74"]={label="label of thread #74"},["80"]={↵
↵ label="label of thread #80"}}
```

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/script/threads/',auth=auth,↵
↵ headers=headers).json())
```

⇒

```
{'13': {'label': 'label of thread #13'}, '58': {'label': 'label of thread #58'},↵
↵ '9': {'label': 'label of thread #9'}}
```

[Browse more samples](#)

See also [Thread map: Scripting thread](#)

8.9 Thread map: Scripting thread

object	script/threads/S/
User scripting thread status	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

label	Label

Sample `requests` write command (note that `_scripting_thread` is a variable):

```
requests.put('http://192.168.0.100/restapi/script/threads/'+_scripting_thread
↳ + '/', auth=auth, headers=headers, json={'label': 'label of thread #97'})
```

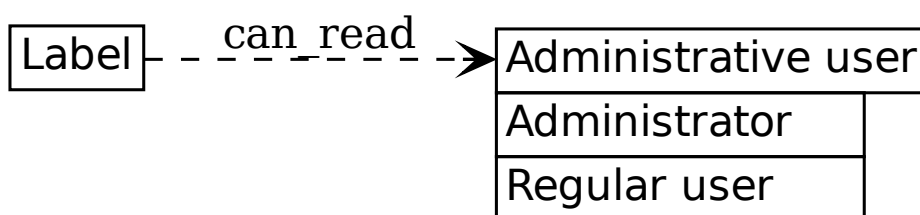
Sample CLI write command (note that `scripting_thread` is a variable):

```
uom set "script/threads/${scripting_thread}" "{\"label\": \"label of thread
↳ #14\"}"
```

[Browse more samples](#)

8.9.1 Label

string	script/threads/S/label/
User thread label	



Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample `requests` read command (note that `_scripting_thread` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/script/threads/'+ ↵
↵ _scripting_thread+'/label/',auth=auth,headers=headers).json())
```

⇒

```
'label of thread #65'
```

Sample uom library read command (note that `_scripting_thread` is a variable):

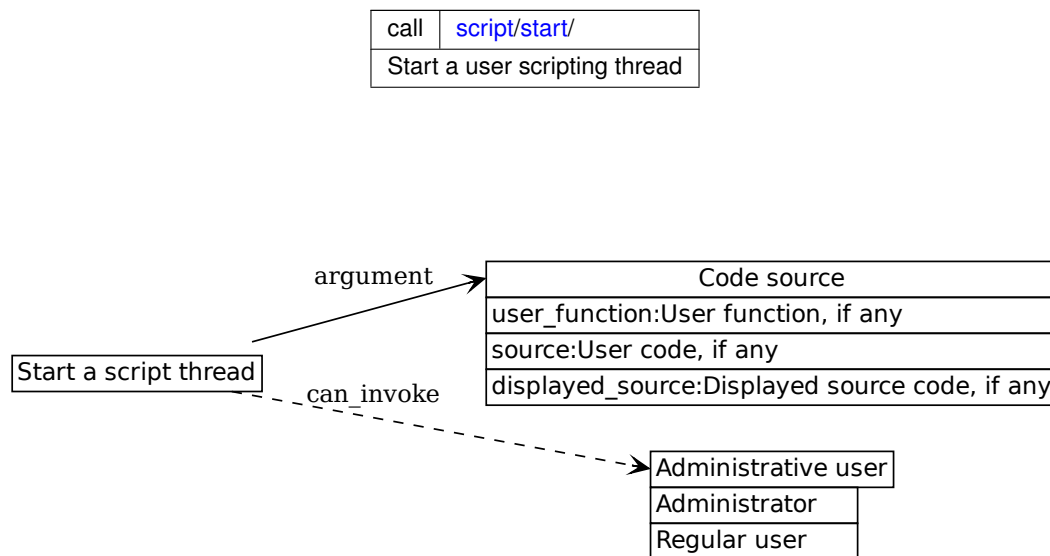
```
print (uom.dump (uom.script.threads[_scripting_thread].label))
```

⇒

```
"label of thread #22"
```

[Browse more samples](#)

8.10 Start a script thread



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

1. Code source: object "Code source"

The call returns the following results:

1. Resulting thread ID: string

Sample `curl` invocation:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
↵ "Accept: application/json" --data-binary "[{"displayed_source": "Toggle ↵
↵ appliance", "user_function": "toggle_appliance"}]" "http ↵
↵ ://192.168.0.100/restapi/script/start/"
```

⇒

"23"

Sample uom library invocation:

```
print(uom.dump(uom.script.start({source="fn(10,\"modems\",2)",user_function=" ↵
↵ shut_down_modems"})))
```

⇒

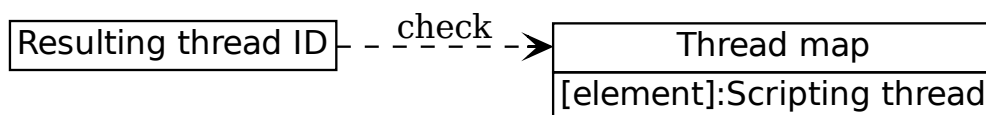
"5"

[Browse more samples](#)

See also [Start a script thread: Code source](#)

8.10.1 Resulting thread ID

string	script/start/results: 1/
Identifier of the started thread	



The value is subject to the following constraints: [thread map\[the value\]](#)

This string does not correspond to an actual resource.

8.11 Start a script thread: Code source

object	script/start/arguments: 1/
Source of the code to run	

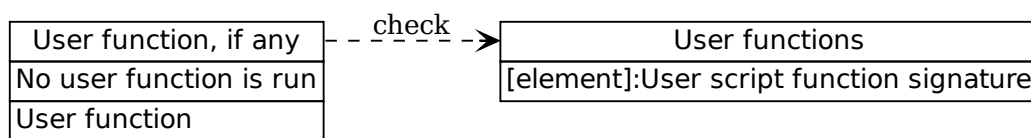
This object does not correspond to an actual resource.

This object contains the following items:

user_function	User function, if any
source	User code, if any
displayed_source	Displayed source code, if any

8.11.1 User function, if any

sum (optional string)	script/start/arguments: 1/user_function/
Name of user function to run, if any	



This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	No user function is run	The source of code is not a user function	
string	User function	Name of user function to run	user functions[the value]

8.11.2 User code, if any

sum (optional string)	script/start/arguments: 1/source/
Explicit code to run as user script (if user_function is not set or is an existing user script function), if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	User function invocation	The user_function is invoked with no arguments
string	User code	Explicit code to run as user script (if user_function is not set or is an existing user script function), if any

8.11.3 Displayed source code, if any

sum (optional string)	script/start/arguments: 1/displayed_source/
Source code describing thread overview (doesn't have to be valid code), if any	

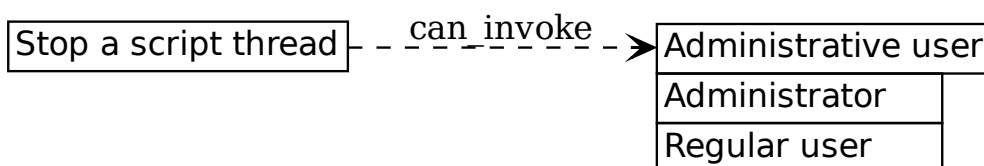
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Use default	Display source, or user_function name
string	Displayed source code	Source code describing thread overview (doesn't have to be valid code)

8.12 Stop a script thread

call	script/stop/
Stop a user scripting thread, or all user scripting threads	



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

1. Thread(s) to stop: Thread ID or All threads

The call returns the following results:

1. Empty result: null

Sample curl invocation:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
↵ "Accept: application/json" --data-binary "[\"89\"]" "http://192.168.0.100/ ↵
↵ restapi/script/stop/"
```

⇒

null

Sample CLI invocation:

```
uom invoke "script/stop" "\"all\""
```

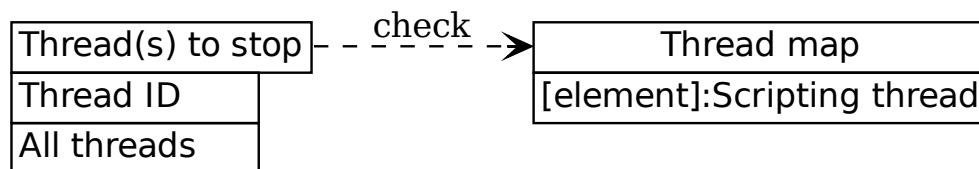
⇒

null

[Browse more samples](#)

8.12.1 Thread(s) to stop

sum (string)	script/stop/arguments: 1/
Identifier of the thread to stop, or "all" to stop all threads	



This sum does not correspond to an actual resource.

This sum can assume the following values:

string	Thread ID	Identifier of the thread to stop	thread map[the value]
constant "all"	All threads	Stop all threads	

8.12.2 Empty result

constant null	script/stop/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

8.13 Script external variables

map	script/variables/
Elements of the script's external table	

This map can change as if by itself or indirectly because of other actions.

This map contains [Script external variable](#) elements.

Sample uom library read command:

```
print(uom.dump(uom.script.variables))
```

⇒

```
{appliance_state=1,engine_running=5,gadget_online=2,gadget_state=-0,gadget_status ↵
  ↵ =false,heater_status=2}
```

Sample CLI write command:

```
uom set "script/variables" "{\"contraption_state\":false,\"contraption_online\": ↵
↵ true,\"router_state\":true}"
```

[Browse more samples](#)

8.13.1 Script external variable

sum (variant)	script/variables/S/
Element of the script's external table	

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample uom library read command (note that `_script_external_variable` is a variable):

```
print (uom.dump (uom.script.variables[_script_external_variable]))
```

⇒

false

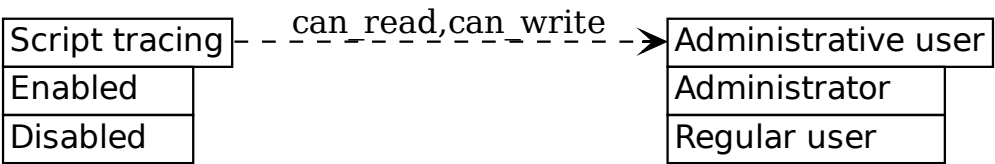
Sample uom library deletion command (note that `_script_external_variable` is a variable):

```
uom.remove (uom.script.variables,_script_external_variable)
```

[Browse more samples](#)

8.14 Script tracing

sum (boolean)	script/traced/
Perform step-by-step logging of script operation	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `uom` library write command:

```
uom.script.traced=false
```

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/script/traced/', auth=auth, ↵
      ↵ headers=headers).json())
```

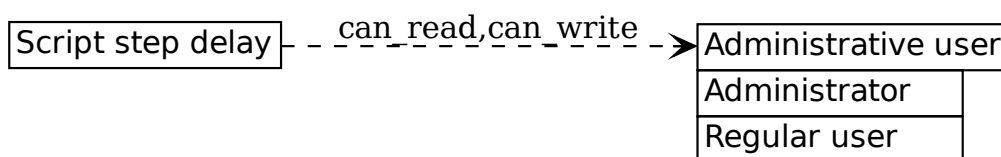
⇒

False

[Browse more samples](#)

8.15 Script step delay

number	script/step_delay/
Delay after executing legacy scripting functions	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "3" "http ↵
↵ ://192.168.0.100/restapi/script/step_delay/"
```

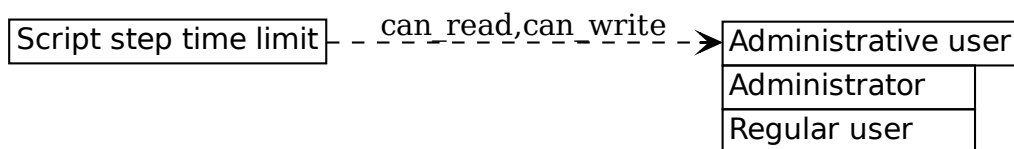
Sample JS request write command:

```
request.put({url:"script/step_delay/",body:3});
```

[Browse more samples](#)

8.16 Script step time limit

number	script/step_time_limit/
Maximum amount of time a scripting thread is allowed to run uninterrupted	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/script/step_time_limit/"
```

⇒

10

Sample uom library read command:

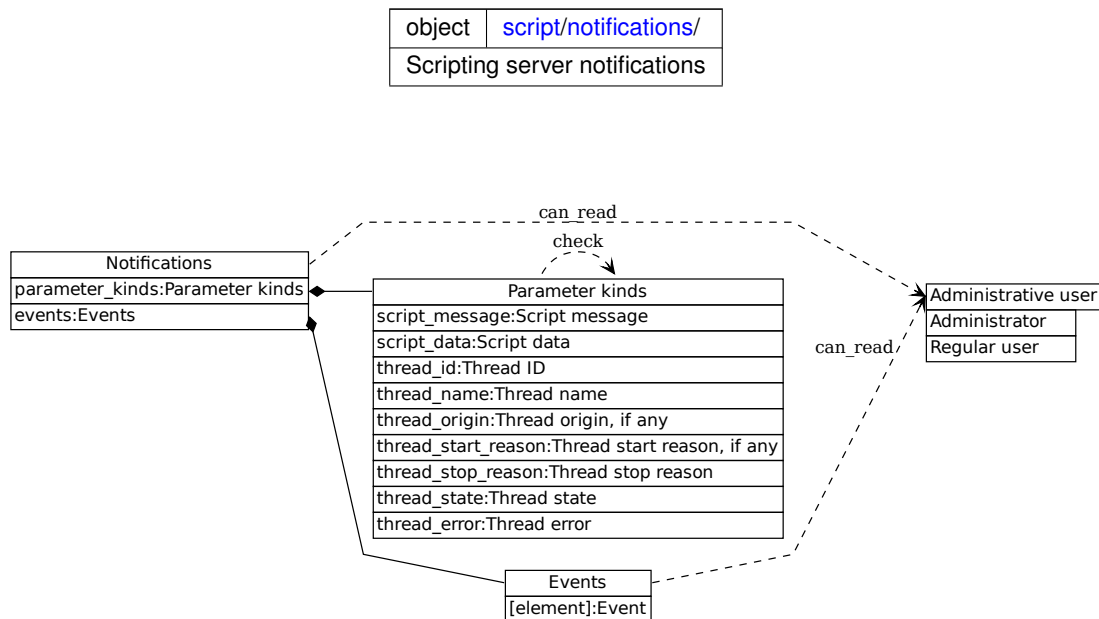
```
print(uom.dump(uom.script.step_time_limit))
```

⇒

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[Browse more samples](#)

8.17 Notifications



Retrieving the value is denied if not [administrative user](#)

This object does not support direct modification.

This object contains the following items:

parameter_kinds	Parameter kinds
events	Events

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/script/notifications/', auth=auth ↵
    ↵ , headers=headers).json())
```

⇒

<...>

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/script/notifications/"
```

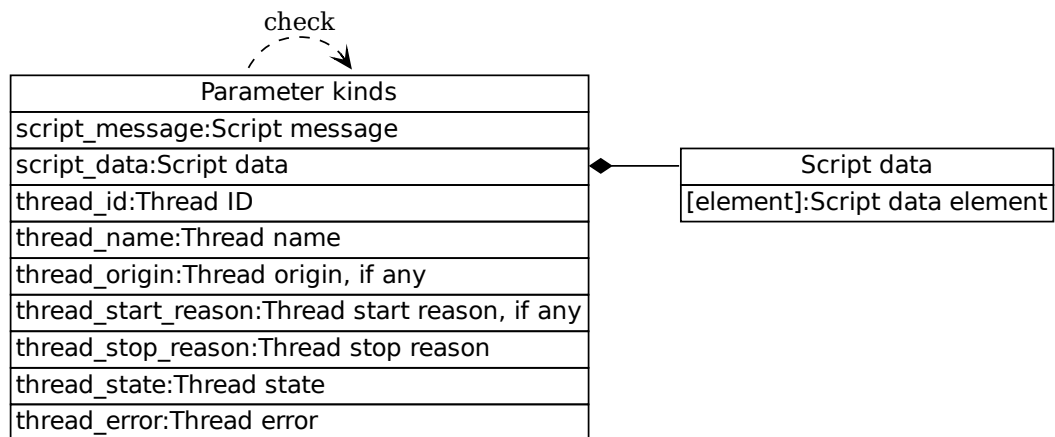
⇒

...

[Browse more samples](#)

8.17.1 Parameter kinds

object	script/notifications/parameter_kinds/
Kinds of event parameters	



This object does not correspond to an actual resource.

This object contains the following items:

script_message	Script message
script_data	Script data
thread_id	Thread ID
thread_name	Thread name
thread_origin	Thread origin, if any
thread_start_reason	Thread start reason, if any
thread_stop_reason	Thread stop reason
thread_state	Thread state
thread_error	Thread error

See also [Parameter kinds: Script message](#)

See also [Parameter kinds: Script data](#)

See also [Parameter kinds: Thread ID](#)

See also [Parameter kinds: Thread name](#)

See also [Parameter kinds: Thread origin, if any](#)

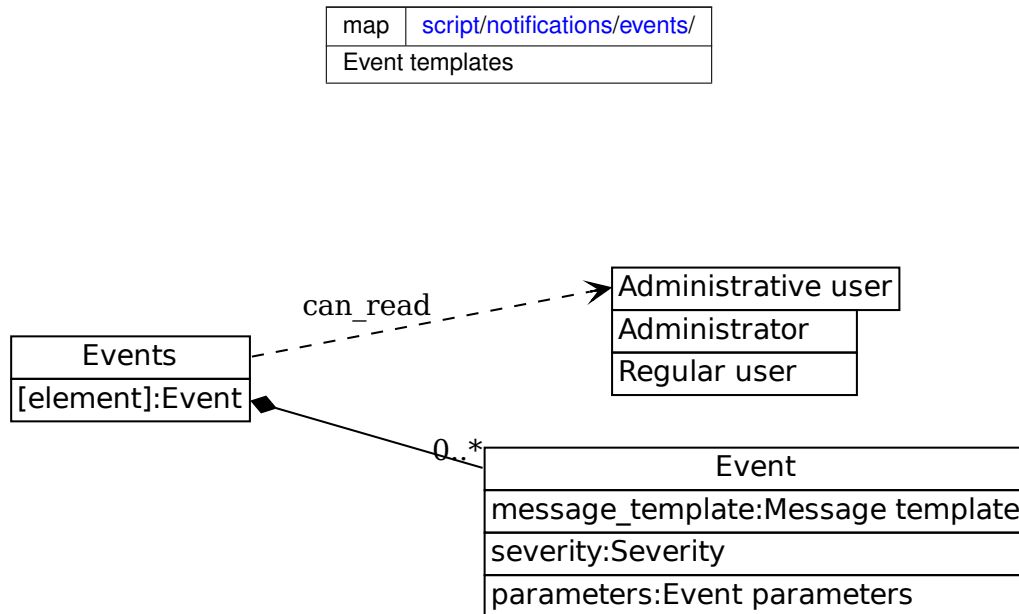
See also [Parameter kinds: Thread start reason, if any](#)

See also [Parameter kinds: Thread stop reason](#)

See also [Parameter kinds: Thread state](#)

See also [Parameter kinds: Thread error](#)

8.17.2 Events



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Event](#) elements.

Creating elements in this collection is not supported.

Sample `uom` library read command:

```
print(uom.dump(uom.script.notifications.events))
```

⇒

<...>

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/script/notifications/events/',
    ↵ auth=auth,headers=headers).json())
```

⇒

<...>

[Browse more samples](#)

See also [Events: Event](#)

8.18 Parameter kinds: Script message

string	script/notifications/parameter_kinds/script_message/
Message for the script-generated event	

8.19 Parameter kinds: Script data

map	script/notifications/parameter_kinds/script_data/
Data of the script-generated event	

This map contains [Script data element](#) elements.

8.19.1 Script data element

sum (variant)	script/notifications/parameter_kinds/script_data/S/
Element of script-generated event data	

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

8.20 Parameter kinds: Thread ID

string	script/notifications/parameter_kinds/thread_id/
Thread identifier	

8.21 Parameter kinds: Thread name

string	script/notifications/parameter_kinds/thread_name/
Thread human-readable name	

8.22 Parameter kinds: Thread origin, if any

sum (optional string)	script/notifications/parameter_kinds/thread_origin/
Origin of the thread, if any	

This sum can assume the following values:

constant null	Unknown origin	Origin of this thread is not known
string	Thread origin	Origin of the thread

8.23 Parameter kinds: Thread start reason, if any

sum (optional string)	script/notifications/parameter_kinds/thread_start_reason/
Reason of the thread start, if any	

This sum can assume the following values:

constant null	Unknown start reason	Reason of the thread start is not known
string	Thread start reason	Reason of the thread start

8.24 Parameter kinds: Thread stop reason

string	script/notifications/parameter_kinds/thread_stop_reason/
Reason of the thread stop	

8.25 Parameter kinds: Thread state

sum (boolean)	script/notifications/parameter_kinds/thread_state/
Thread execution state	

This sum can assume the following values:

constant true	Running	The thread is running
constant false	Stopped	The thread is stopped

8.26 Parameter kinds: Thread error

string	script/notifications/parameter_kinds/thread_error/
Thread execution error description	

8.27 Event parameters: Event parameter

object	script/notifications/events/S/parameters/N/
Properties of a parameter associated with the event	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

id	Identifier
has_fixed_value	Fixed value flag
fixed_value	Fixed value

Sample CLI write command (note that `event` and `event_parameter_index` are variables):

```
uom set "script/notifications/events/${event}/parameters/${event_parameter_index}
↪ }" "{\"fixed_value\":null,\"has_fixed_value\":false,\"id\": \"
↪ thread_start_reason\"}"
```

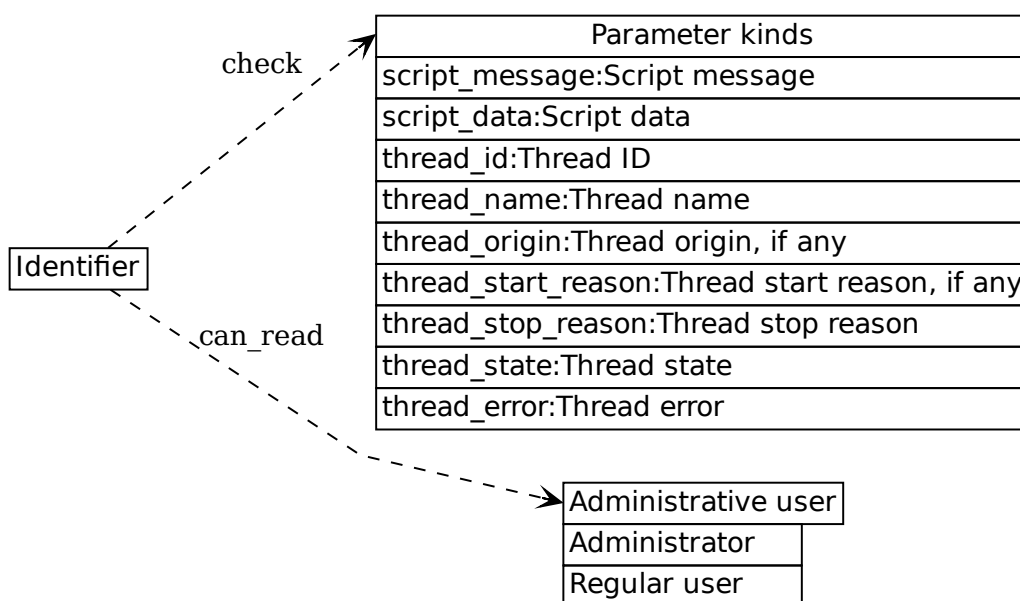
Sample requests write command (note that `_event` and `_event_parameter_index` are variables):

```
requests.put('http://192.168.0.100/restapi/script/notifications/events/'+_event
↪ +'/parameters/'+str(_event_parameter_index)+'/', auth=auth, headers=headers,
↪ json={})
```

[Browse more samples](#)

8.27.1 Identifier

string	script/notifications/events/S/parameters/N/id/
Parameter identifier	



The value is subject to the following constraints: [parameter kinds](#)[the value]

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample `curl` read command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/script/notifications/events/:event/parameters/: ↵
↵ event_parameter_index/id/"
```

⇒

```
"thread_start_reason"
```

Sample requests read command (note that `_event` and `_event_parameter_index` are variables):

```
print (requests.get ('http://192.168.0.100/restapi/script/notifications/events/' + ↵
↵ _event + '/parameters/' + str (_event_parameter_index) + '/id/', auth=auth, headers= ↵
↵ headers).json())
```

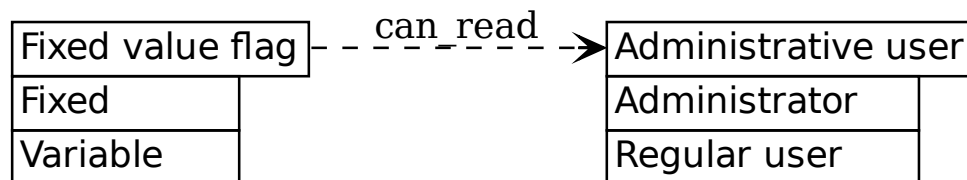
⇒

```
'thread_origin'
```

[Browse more samples](#)

8.27.2 Fixed value flag

sum (boolean)	script/notifications/events/S/parameters/N/has_fixed_value/
Flag indicating that the parameter's value for this event is fixed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Fixed	The value is fixed
constant false	Variable	The value is variable

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"script/notifications/events/"+_event+"/parameters/"+
    ↪ _event_parameter_index.toString()+"/has_fixed_value/"},function(error, ↪
    ↪ response,body) {console.log(body)});
```

⇒

false

Sample requests read command (note that `_event` and `_event_parameter_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/script/notifications/events/'+
    ↪ _event+'/parameters/'+str(_event_parameter_index)+'has_fixed_value/',auth= ↪
    ↪ auth,headers=headers).json())
```

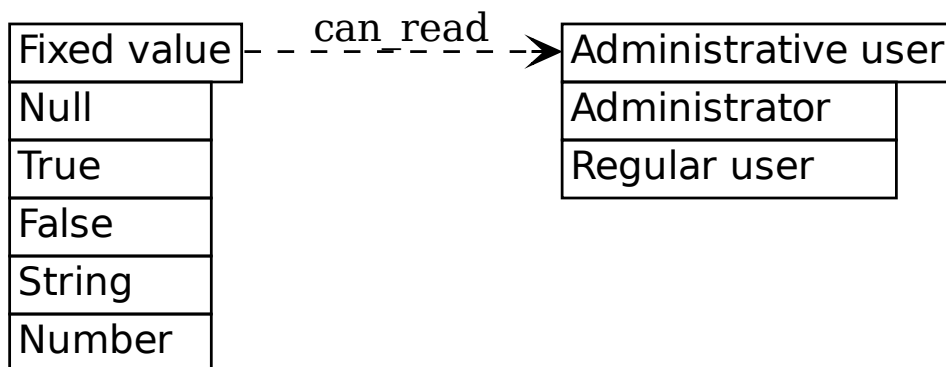
⇒

False

[Browse more samples](#)

8.27.3 Fixed value

sum (variant)	script/notifications/events/S/parameters/N/fixed_value/
Fixed parameter value for this particular event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.script.notifications.events[_event].parameters[↵
↵ _event_parameter_index].fixed_value))
```

⇒

null

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"script/notifications/events/"+_event+"/parameters/"+↵
↵ _event_parameter_index.toString()+"/fixed_value/"},function(error,response,↵
↵ body) {console.log(body)});
```

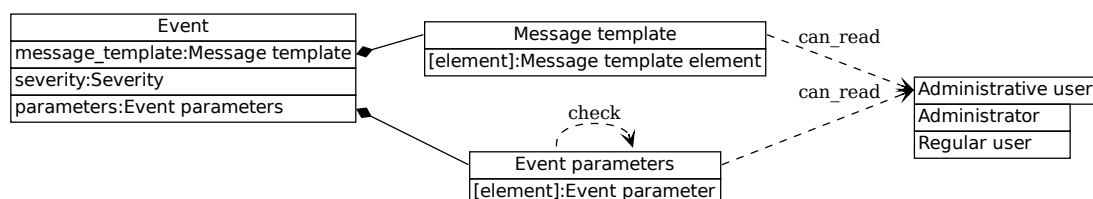
⇒

null

[Browse more samples](#)

8.28 Events: Event

object	script/notifications/events/S/
Event template	



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

message_template	Message template
severity	Severity
parameters	Event parameters

Sample curl read command (note that :event is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/script/notifications/events/:event/"
```

⇒

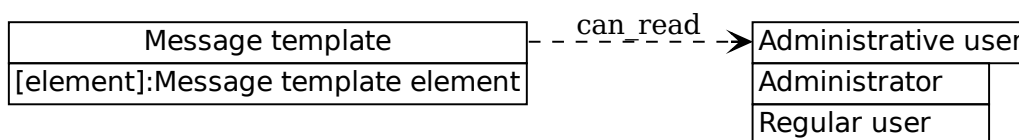
Sample CLI write command (note that event is a variable):

```
uom set "script/notifications/events/${event}" "{ \"severity\":6, \" ↵
↵ message_template\":[0, \":\",1, \" [\",2, \"] (\",3, \") started\"], \" ↵
↵ parameters\":[{ \"fixed_value\":null, \"has_fixed_value\":false, \"id\": \" ↵
↵ thread_id\"}, { \"fixed_value\":null, \"has_fixed_value\":false, \"id\": \" ↵
↵ thread_name\"}, { \"fixed_value\":null, \"has_fixed_value\":false, \"id\": \" ↵
↵ thread_origin\"}, { \"fixed_value\":null, \"has_fixed_value\":false, \"id\": \" ↵
↵ thread_start_reason\"}, { \"fixed_value\":true, \"has_fixed_value\":true, \"id ↵
↵ \": \"thread_state\"} ] }"
```

[Browse more samples](#)

8.28.1 Message template

array	script/notifications/events/S/message_template/
Template for human-readable message generation	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Message template element](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command (note that _event is a variable):

```
print(uom.dump(uom.script.notifications.events[_event].message_template))
```

⇒

```
{"no longer running a script function at boot since the function no longer exists ↵
↵ in the script source"}
```


Sample CLI read command (note that `event` is a variable):

```
uom get "script/notifications/events/${event}/message_template"
```

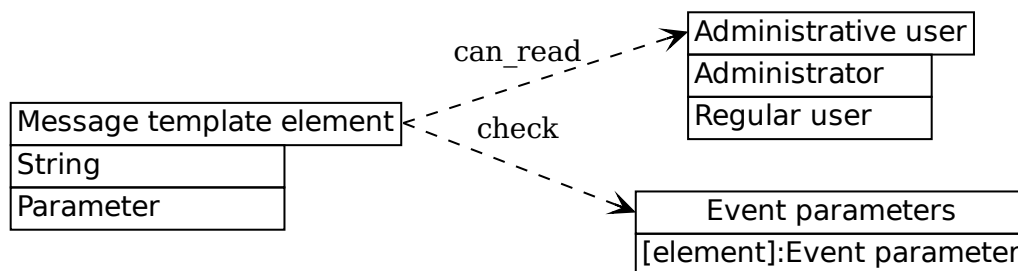
⇒

```
[0,":",1," ["2,"] ("3,") stopped: ",4]
```

[Browse more samples](#)

sum (variant)	script/notifications/events/S/message_template/N/
Element of human-readable message template	

8.28.1.1 Message template element



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

string	String	Fixed string	
number	Parameter	Index of message parameter to insert	event parameters[the value]

Sample `requests read` command (note that `_event` and `_message_template_element_index` are variables):

```
print (requests.get('http://192.168.0.100/restapi/script/notifications/events/' + ↵
    ↵ _event + '/message_template/' + str(_message_template_element_index) + '/', auth= ↵
    ↵ auth, headers=headers).json())
```

⇒

```
'no longer running a script function at boot since the function no longer exists ↵
    ↵ in the script source'
```

Sample CLI read command (note that `event` and `message_template_element_index` are variables):

```
uom get "script/notifications/events/${event}/message_template/${
  ↳ message_template_element_index}"
```

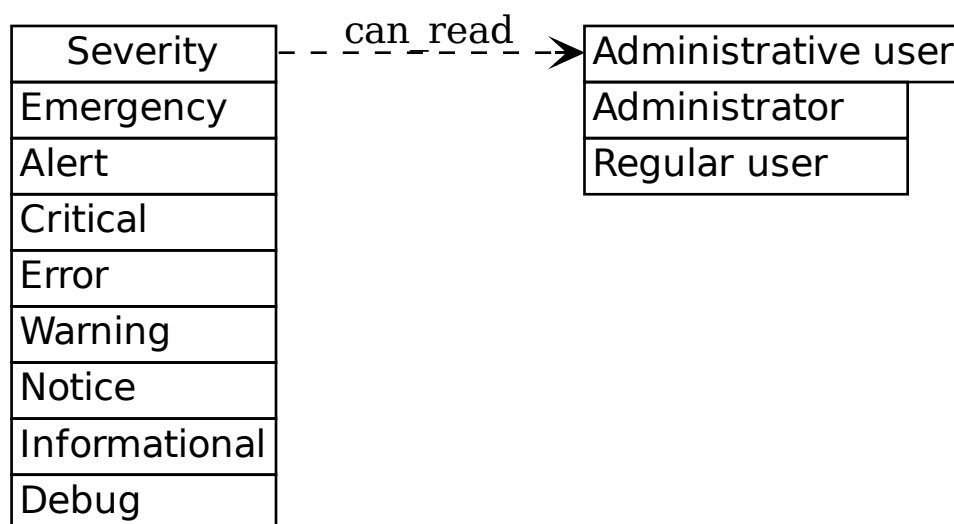
⇒

```
"no longer running a script function at boot since the function no longer exists
  ↳ in the script source"
```

[Browse more samples](#)

8.28.2 Severity

sum (enumerated number)	script/notifications/events/S/severity/
Severity rating assigned to the event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant 1	Emergency	Treat the event as an emergency
constant 2	Alert	Treat the event as an alert
constant 3	Critical	Treat the event as critical
constant 4	Error	Treat the event as an error
constant 5	Warning	Treat the event as a warning
constant 6	Notice	Treat the event as a notice
constant 7	Informational	Treat the event as informational
constant 8	Debug	Treat the event as debugging-related

Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"script/notifications/events/"+_event+"/severity/"},function( ↵
    ↵ error,response,body) {console.log(body)});
```

⇒

6

Sample uom library read command (note that `_event` is a variable):

```
print(uom.dump(uom.script.notifications.events[_event].severity))
```

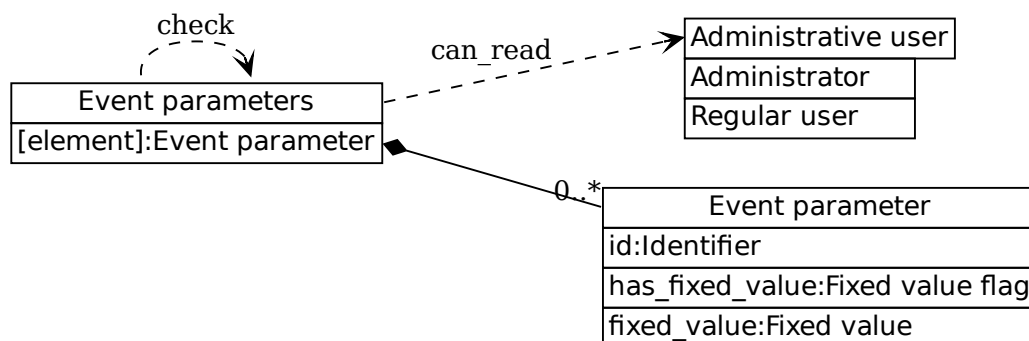
⇒

5

[Browse more samples](#)

8.28.3 Event parameters

array	script/notifications/events/S/parameters/
Additional data associated with the event	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Event parameter](#) elements.

Creating elements in this collection is not supported.

Sample curl read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/script/notifications/events/:event/parameters/"
```

⇒

Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"script/notifications/events/"+_event+"/parameters/"},function( ↵
    ↵ error,response,body) {console.log(body)});
```

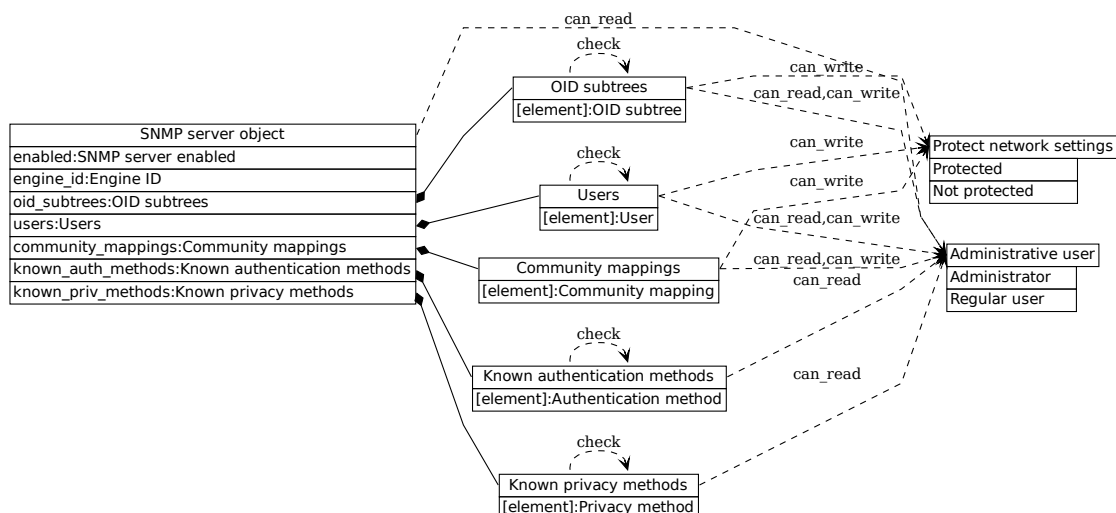
⇒

[Browse more samples](#)

See also [Event parameters: Event parameter](#)

9 SNMP server object

object	snmp/
Object representing SNMP server configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

enabled	SNMP server enabled
engine_id	Engine ID
oid_subtrees	OID subtrees
users	Users
community_mappings	Community mappings
known_auth_methods	Known authentication methods
known_priv_methods	Known privacy methods

Sample uom library read command:

```
print(uom.dump(uom.snmp))
```

⇒

Sample CLI read command:

```
uom get snmp
```

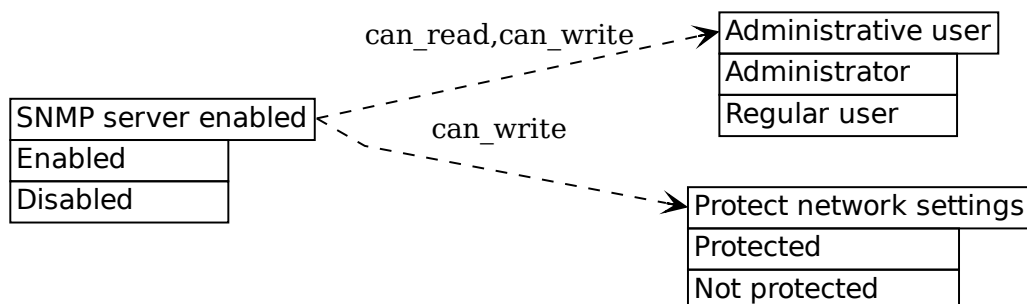
⇒

...

[Browse more samples](#)

9.1 SNMP server enabled

sum (boolean)	snmp/enabled/
SNMP server enable status	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "false" "http ↵
↵ ://192.168.0.100/restapi/snmp/enabled/"
```

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/snmp/enabled/', auth=auth, headers ↵
↵ =headers).json())
```

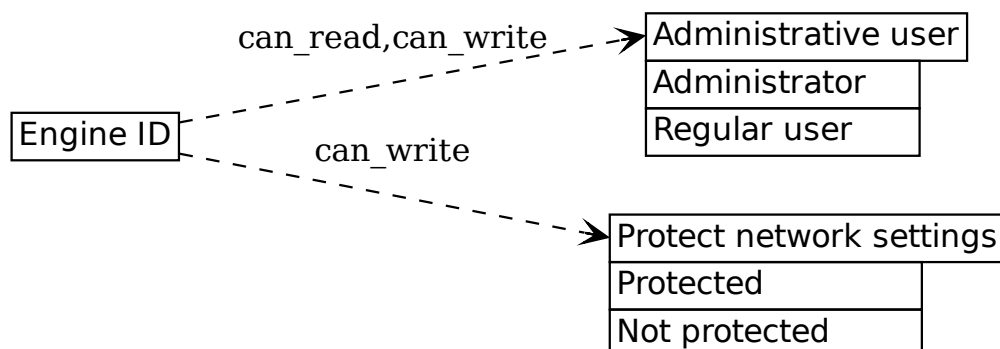
⇒

True

[Browse more samples](#)

9.2 Engine ID

string	snmp/engine_id/
The engine ID, in hexadecimal, to which all user authentication and privacy keys are localized	



The value is subject to the following constraints: [the value](#) matches `^([0-9A-Fa-f]{2})*$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"FAB709BCBF\"" "http ↵
↵ ://192.168.0.100/restapi/snmp/engine_id/"
```

Sample requests read command:

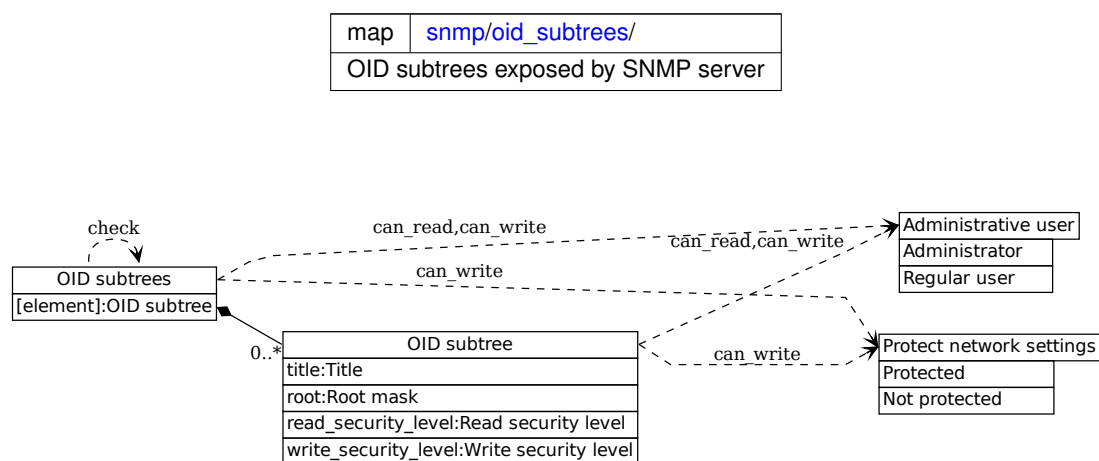
```
print(requests.get('http://192.168.0.100/restapi/snmp/engine_id/', auth=auth, ↵
↵ headers=headers).json())
```

⇒

```
'9E5DA135C3'
```

[Browse more samples](#)

9.3 OID subtrees



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This map represents a value in persistent storage.

This map contains [OID subtree](#) elements.

Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/snmp/oid_subtrees/', auth=auth, headers= ↵
↵ headers, json={'energyObject': {'read_security_level': 'noauth', 'root': ↵
↵ '1.3.6.1.2.1.229', 'title': 'energyObject MIB (RFC 7460, allows ↵
↵ manipulating relays and power-related meters)', 'write_security_level': ' ↵
↵ noauth'}})
```

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/snmp/oid_subtrees/', auth=auth, ↵
↵ headers=headers).json())
```

⇒

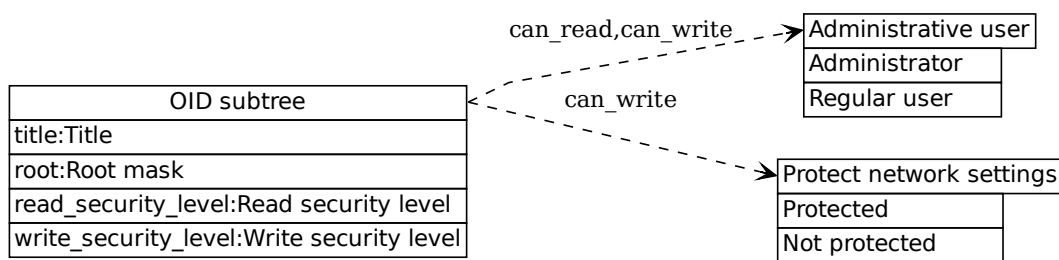
```
{'energyObject': {'read_security_level': 'noauth', 'root': '1.3.6.1.2.1.229', ' ↵
↵ title': 'energyObject MIB (RFC 7460, allows manipulating relays and power- ↵
↵ related meters)', 'write_security_level': 'noauth'}}
```

[Browse more samples](#)

See also [OID subtrees: OID subtree](#)

9.4 OID subtrees: OID subtree

object	snmp/oid_subtrees/S/
Properties of an OID subtree	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This object represents a value in persistent storage.

This object contains the following items:

title	Title
root	Root mask
read_security_level	Read security level
write_security_level	Write security level

Sample JS request deletion command (note that `_oid_subtree` is a variable):


```
request.delete({url:"snmp/oid_subtrees/"+_oid_subtree+"/});
```

Sample requests read command (note that `_oid_subtree` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/snmp/oid_subtrees/'+_oid_subtree +
↳ + '/', auth=auth, headers=headers).json())
```

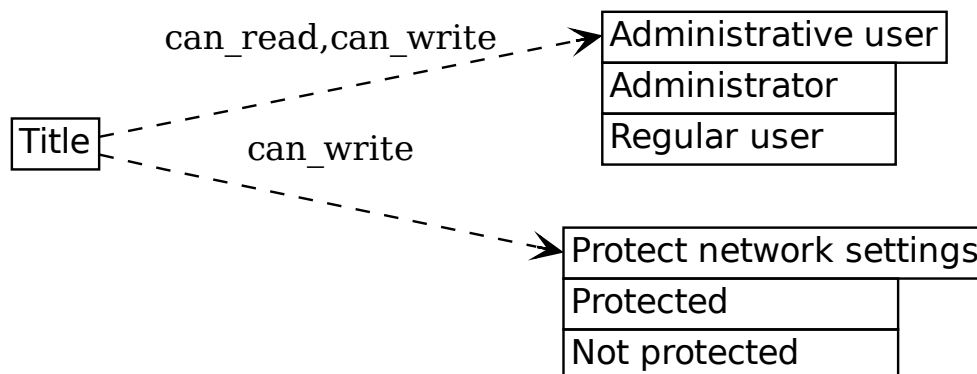
⇒

```
{'read_security_level': 'noauth', 'root': '1.3.6.1.2.1.229', 'title': ' ↳
↳ energyObject MIB (RFC 7460, allows manipulating relays and power-related ↳
↳ meters)', 'write_security_level': 'noauth'}
```

[Browse more samples](#)

9.4.1 Title

string	snmp/oid_subtrees/S/title/
The title of this subtree	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample requests write command (note that `_oid_subtree` is a variable):

```
requests.put('http://192.168.0.100/restapi/snmp/oid_subtrees/'+_oid_subtree+' / ↳
↳ title/', auth=auth, headers=headers, json='energyObject MIB (RFC 7460, allows ↳
↳ manipulating relays and power-related meters)')
```

Sample curl read command (note that :oid_subtree is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/snmp/oid_subtrees/:oid_subtree/title/"
```

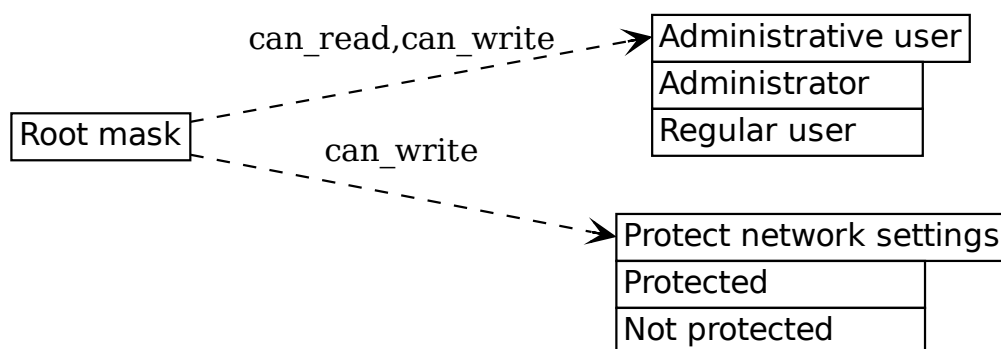
⇒

```
"energyObject MIB (RFC 7460, allows manipulating relays and power-related meters) ↵
↵ "
```

[Browse more samples](#)

9.4.2 Root mask

string	snmp/oid_subtrees/S/root/
The root OID mask of this subtree (for all but the first two arcs, '*' can be used for "don't care" parts, and inclusive ranges can be sp	



The value is subject to the following constraints: the value matches $\wedge(0|1|(\text{01}|2)(.*|(0|[1-9][0-9]*)-(0|[1-9][0-9]*)?)?(, (0|[1-9][0-9]*)-(0|[1-9][0-9]*)?)?)*)*$$

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample curl write command (note that :oid_subtree is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"1.3.6.1.2.1.229\" " ↵
↵ http://192.168.0.100/restapi/snmp/oid_subtrees/:oid_subtree/root/"
```

Sample curl read command (note that :oid_subtree is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵  
↵ restapi/snmp/oid_subtrees/:oid_subtree/root/"
```

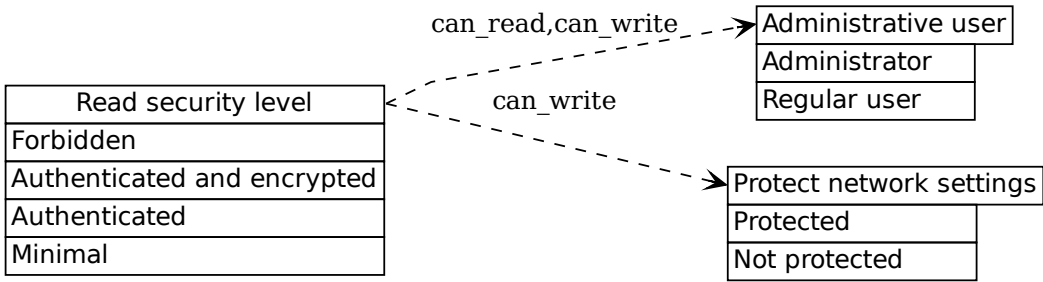
⇒

"1.3.6.1.2.1.229"

[Browse more samples](#)

9.4.3 Read security level

sum (enumerated string)	snmp/oid_subtrees/S/read_security_level/
Required security level for reading from this subtree	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant "deny"	Forbidden	Nobody can read from this OID subtree
constant "priv"	Authenticated and encrypted	SNMPv3 authentication and encryption must be used to read from this OID subtree
constant "auth"	Authenticated	SNMPv3 authentication must be used to read from this OID subtree (encryption is optional)
constant "noauth"	Minimal	Any protocol, including SNMPv1 and SNMPv2c, can be used to read from this OID subtree

Sample CLI read command (note that oid_subtree is a variable):

```
uom get "snmp/oid_subtrees/${oid_subtree}/read_security_level"
```

⇒

`"noauth"`

Sample `curl` read command (note that `:oid_subtree` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/snmp/oid_subtrees/:oid_subtree/read_security_level/"
```

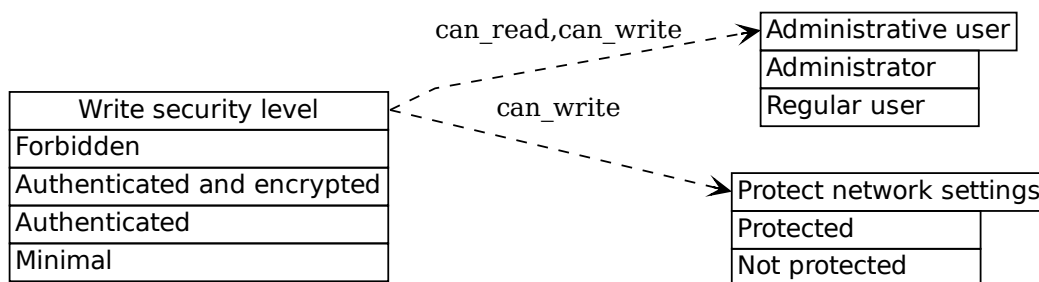
⇒

`"noauth"`

[Browse more samples](#)

9.4.4 Write security level

sum (enumerated string)	snmp/oid_subtrees/S/write_security_level/
Required security level for writing to this subtree	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant "deny"	Forbidden	Nobody can write to this OID subtree
constant "priv"	Authenticated and encrypted	SNMPv3 authentication and encryption must be used to write to this OID subtree
constant "auth"	Authenticated	SNMPv3 authentication must be used to write to this OID subtree (encryption is optional)
constant "noauth"	Minimal	Any protocol, including SNMPv1 and SNMPv2c, can be used to write to this OID subtree

Sample curl write command (note that :oid_subtree is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"noauth\"" "http ↵
↵ ://192.168.0.100/restapi/snmp/oid_subtrees/:oid_subtree/ ↵
↵ write_security_level/"
```

Sample CLI read command (note that oid_subtree is a variable):

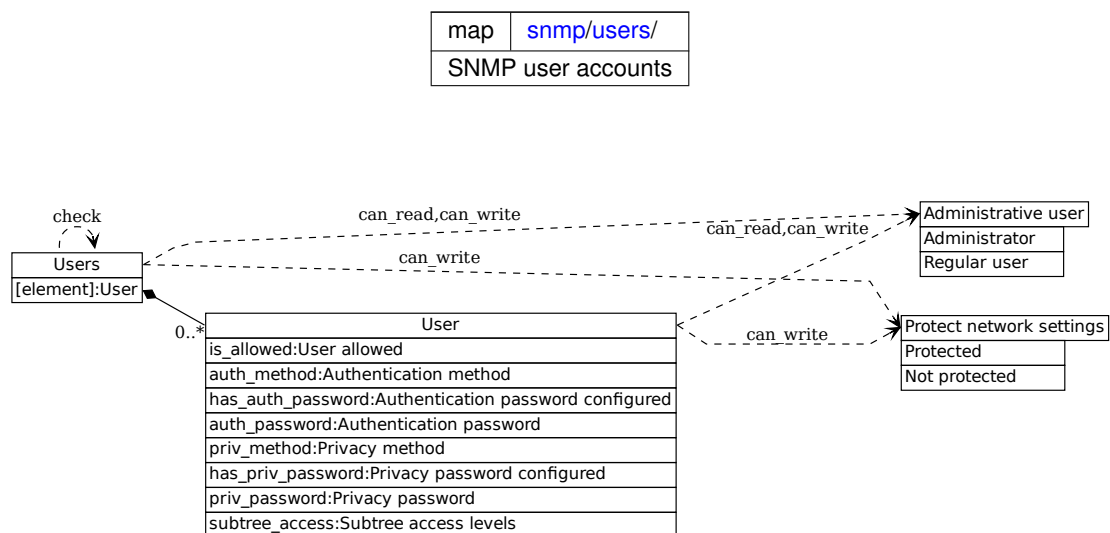
```
uom get "snmp/oid_subtrees/${oid_subtree}/write_security_level"
```

⇒

```
"noauth"
```

[Browse more samples](#)

9.5 Users



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This map represents a value in persistent storage.

This map contains [User](#) elements.

Sample uom library read command:

```
print (uom.dump (uom.snmp.users) )
```

⇒

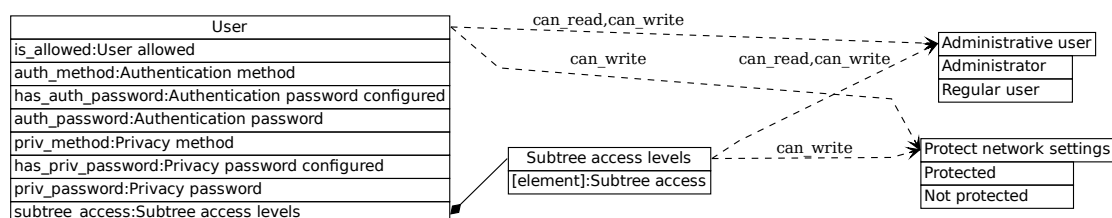
Sample CLI write command:

```
uom set "snmp/users" "{\"powerReader\":{\"priv_password\":\"readerPrivPassword\"
↪ \",\"subtree_access\":{\"energyObject\":{\"readonly\"},\"auth_password\":\"
↪ readerAuthPassword\", \"is_allowed\":true,\"priv_method\":\"des\", \"
↪ auth_method\":\"md5\", \"has_priv_password\":true},\"powerAdmin\":{\"
↪ priv_password\":\"adminPrivPassword\", \"subtree_access\":{\"energyObject\":
↪ false},\"auth_password\":\"adminAuthPassword\", \"is_allowed\":false, \"
↪ priv_method\":\"des\", \"auth_method\":\"md5\"}}\"
```

[Browse more samples](#)

9.5.1 User

object	snmp/users/S/
Properties of an SNMP user	



The value is subject to the following constraints: index of the value matches `^[a-zA-Z0-9]*$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This object represents a value in persistent storage.

This object contains the following items:

is_allowed	User allowed
auth_method	Authentication method
has_auth_password	Authentication password configured
auth_password	Authentication password
priv_method	Privacy method
has_priv_password	Privacy password configured
priv_password	Privacy password
subtree_access	Subtree access levels

Sample `curl` deletion command (note that `:user` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X DELETE -H "Accept: application/json" \
  "http://192.168.0.100/restapi/snmp/users/:user/"
```

Sample requests deletion command (note that `_user` is a variable):

```
requests.delete('http://192.168.0.100/restapi/snmp/users/'+_user+'/', auth=auth, \
  headers=headers)
```

[Browse more samples](#)

See also [User: User allowed](#)

See also [User: Authentication method](#)

See also [User: Authentication password configured](#)

See also [User: Authentication password](#)

See also [User: Privacy method](#)

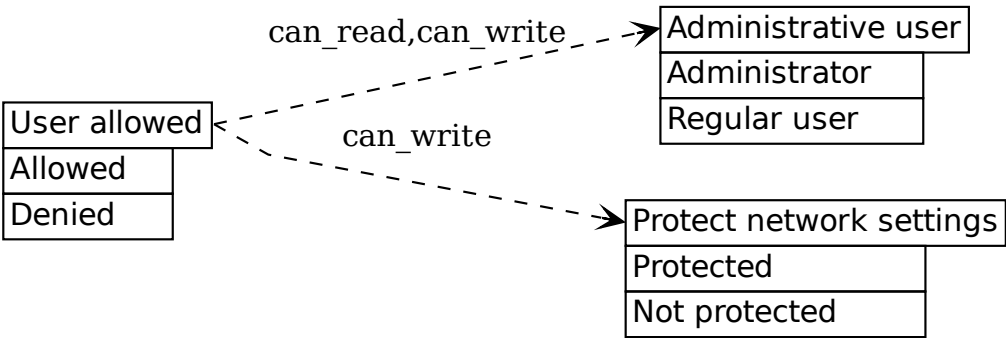
See also [User: Privacy password configured](#)

See also [User: Privacy password](#)

See also [User: Subtree access levels](#)

9.6 User: User allowed

sum (boolean)	snmp/users/S/is_allowed/
Flag indicating whether user is allowed or denied	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Allowed	The user is allowed to log in
constant false	Denied	The user is denied login

Sample `uom` library write command (note that `_user` is a variable):

```
uom.snmp.users[_user].is_allowed=false
```

Sample `requests` read command (note that `_user` is a variable):

```
print (requests.get('http://192.168.0.100/restapi/snmp/users/'+_user+'/is_allowed'
↔
↔ '/' ,auth=auth,headers=headers).json())
```

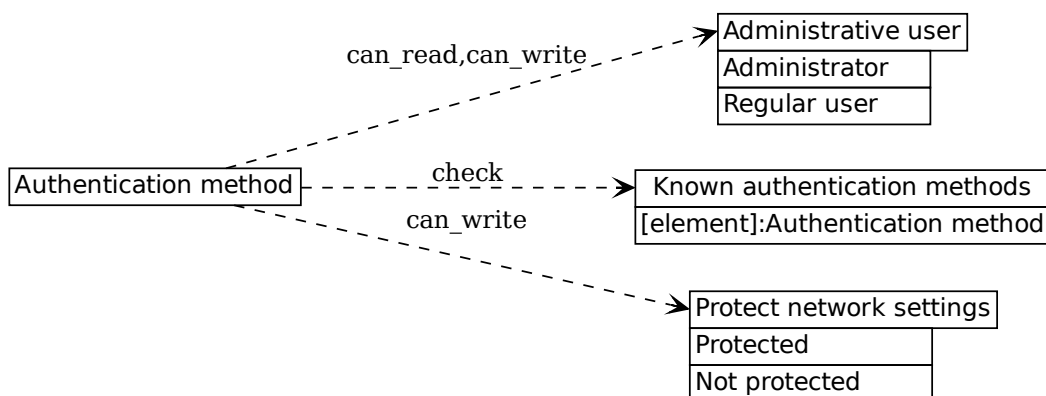
⇒

True

[Browse more samples](#)

9.7 User: Authentication method

string	snmp/users/S/auth_method/
User authentication method	



The value is subject to the following constraints: [known authentication methods](#)[[the value](#)]

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample uom library write command (note that `_user` is a variable):

```
uom.snmp.users[_user].auth_method="md5"
```

Sample JS request read command (note that `_user` is a variable):

```
request.get({url:"snmp/users/"+_user+"/auth_method/"},function(error,response,↵↵
    ↵ body) {console.log(body)});
```

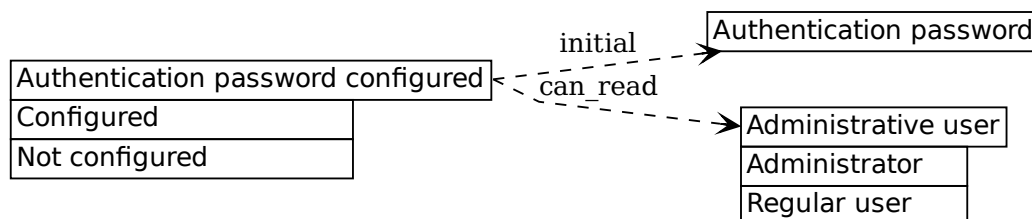
⇒

"sha1"

[Browse more samples](#)

9.8 User: Authentication password configured

sum (boolean)	snmp/users/S/has_auth_password/
Flag indicating if the authentication password has been configured for the user (cleared if engine ID or authentication method changed)	



The value is unconditionally set to [authentication password](#) is not equal to "" on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant true	Configured	The authentication password has been configured
constant false	Not configured	The authentication password hasn't been configured, the user won't be able to log in

Sample uom library read command (note that `_user` is a variable):

```
print(uom.dump(uom.snmp.users[_user].has_auth_password))
```

⇒

true

Sample requests read command (note that `_user` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/snmp/users/'+_user+'/' +  
↳ has_auth_password/', auth=auth, headers=headers).json())
```

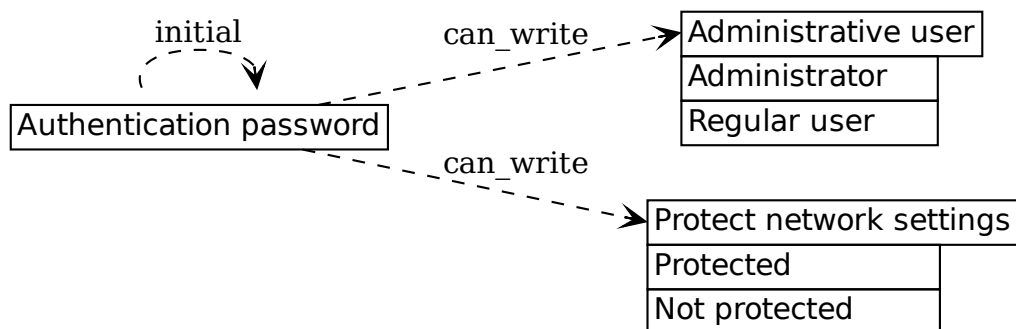
⇒

True

[Browse more samples](#)

9.9 User: Authentication password

string	snmp/users/S/auth_password/
User authentication password (cannot be read as it is stored localized to the engine ID), empty if not set	



The value is subject to the following constraints: any of the following is true:

- the value is equal to ""
- length of the value is greater or equal to 8

Retrieving the value is denied

Changing the value is denied if any of the following is true:

- not administrative user

- [protect network settings](#)

Using the string as a field for indexing into the grandparent collection is denied

This string represents a value in persistent storage.

This string can change as if by itself or indirectly because of other actions.

This string should be displayed in a secure manner.

Representation of the resource cannot be obtained. Attempts to do so via a JSON API will succeed but return `'{"$ref":""}'` which means "the value of this resource".

Sample `requests` write command (note that `_user` is a variable):

```
requests.put('http://192.168.0.100/restapi/snmp/users/'+_user+'/auth_password/', ↵
↵ auth=auth,headers=headers,json='readerAuthPassword')
```

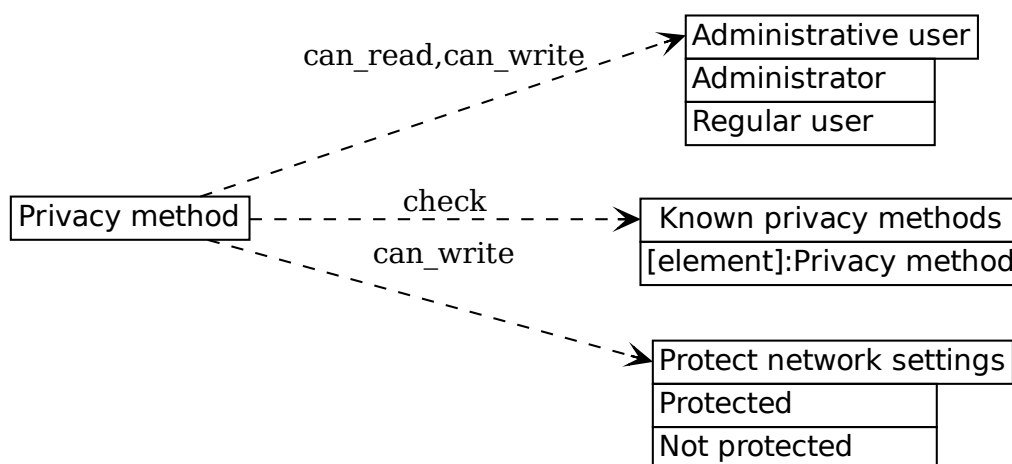
Sample JS request write command (note that `_user` is a variable):

```
request.put({url:"snmp/users/"+_user+"/auth_password/",body:"readerAuthPassword ↵
↵ "});
```

[Browse more samples](#)

9.10 User: Privacy method

string	snmp/users/S/priv_method/
User privacy method	



The value is subject to the following constraints: [known privacy methods](#)[the value]

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample JS request write command (note that `_user` is a variable):

```
request.put ({url: "snmp/users/"+_user+"/priv_method/", body: "des"});
```

Sample curl read command (note that `:user` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/snmp/users/:user/priv_method/"
```

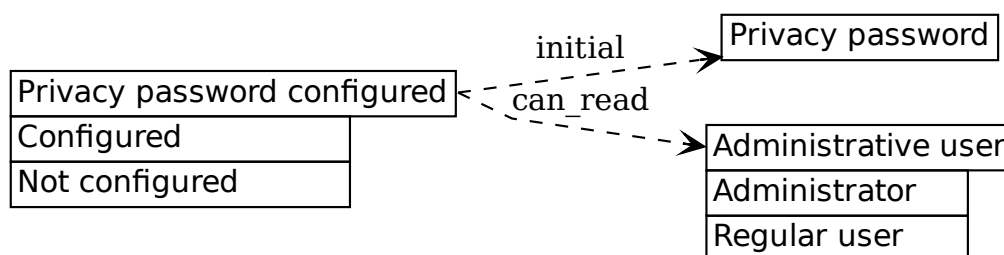
⇒

"aes"

[Browse more samples](#)

9.11 User: Privacy password configured

sum (boolean)	snmp/users/S/has_priv_password/
Flag indicating if the privacy password has been configured for the user (cleared if engine ID or authentication or privacy method ch	



The value is unconditionally set to [privacy password](#) is not equal to "" on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum cannot be tracked.

This sum can assume the following values:

constant true	Configured	The privacy password has been configured
constant false	Not configured	The privacy password hasn't been configured, the user won't be able to log in

Sample JS request read command (note that `_user` is a variable):

```
request.get({url:"snmp/users/"+_user+"/has_priv_password/"},function(error, ↵
    ↵ response,body) {console.log(body)});
```

⇒

true

Sample uom library read command (note that `_user` is a variable):

```
print(uom.dump(uom.snmp.users[_user].has_priv_password))
```

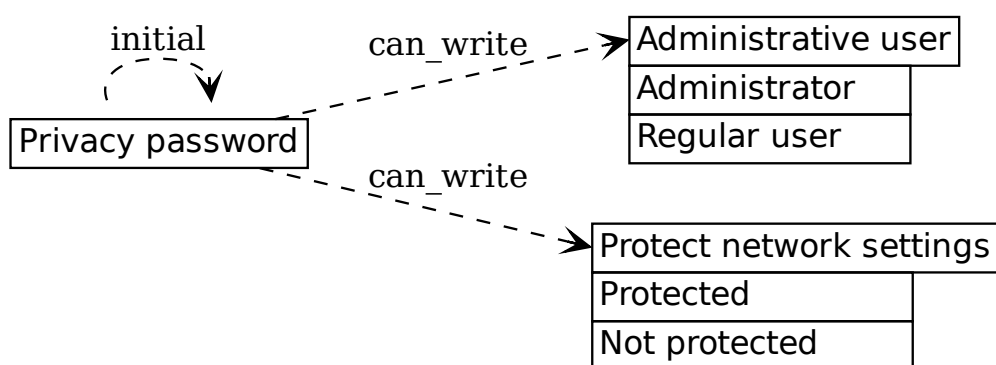
⇒

false

[Browse more samples](#)

9.12 User: Privacy password

string	snmp/users/S/priv_password/
User privacy password (cannot be read as it is stored localized to the engine ID), empty if not set	



The value is subject to the following constraints: any of the following is true:

- [the value](#) is equal to ""
- length of [the value](#) is greater or equal to 8

Retrieving the value is denied

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

Using the string as a field for indexing into the grandparent collection is denied

This string represents a value in persistent storage.

This string can change as if by itself or indirectly because of other actions.

This string should be displayed in a secure manner.

Representation of the resource cannot be obtained. Attempts to do so via a JSON API will succeed but return `'{"$ref":""}'` which means "the value of this resource".

Sample uom library write command (note that `_user` is a variable):

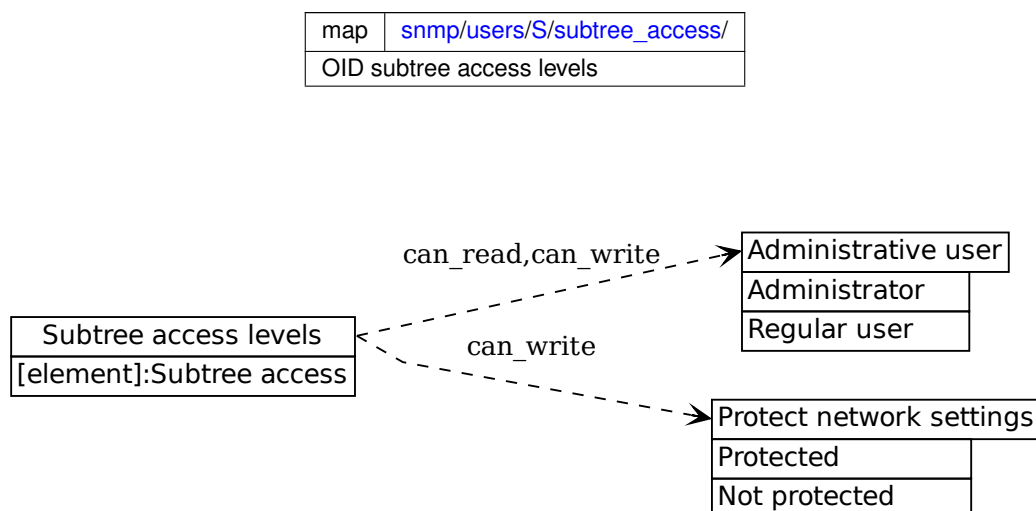
```
uom.snmp.users[_user].priv_password="readerPrivPassword"
```

Sample JS request write command (note that `_user` is a variable):

```
request.put({url:"snmp/users/"+_user+"/priv_password/",body:"readerPrivPassword"
↪ ↪ "});
```

[Browse more samples](#)

9.13 User: Subtree access levels



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This map is composite, i.e. is modified as a whole.

This map represents a value in persistent storage.

This map contains [Subtree access](#) elements.

Sample `requests` write command (note that `_user` is a variable):

```
requests.put('http://192.168.0.100/restapi/snmp/users/'+_user+'/subtree_access/', ←
    ↪ auth=auth,headers=headers,json={'energyObject': 'readonly'})
```

Sample `requests` read command (note that `_user` is a variable):

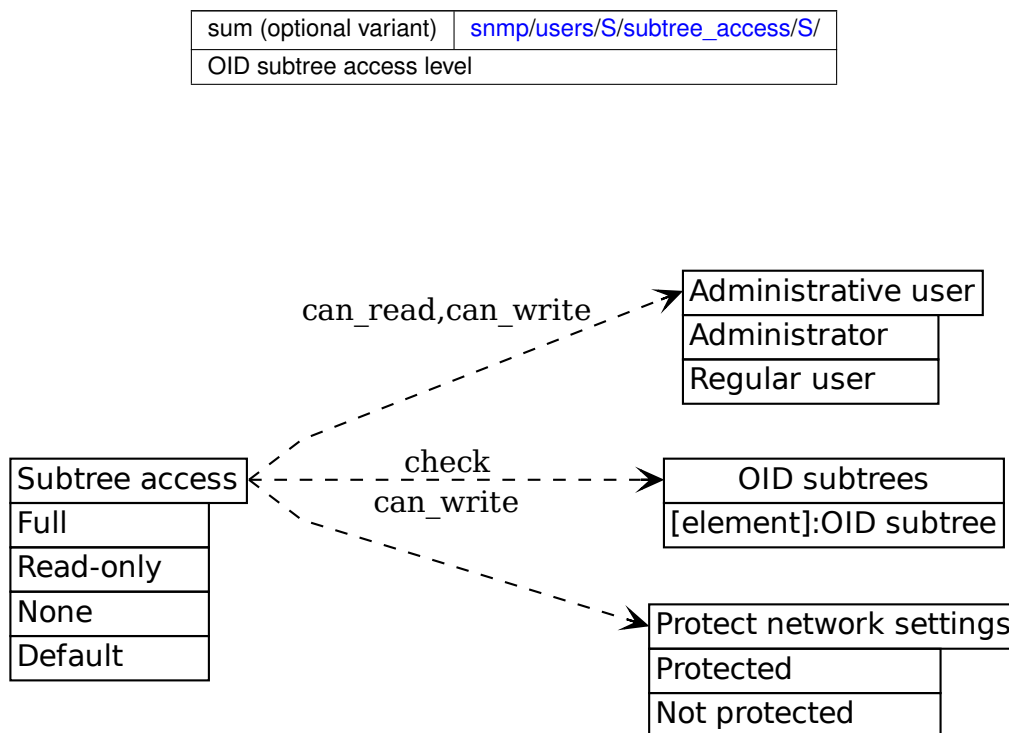
```
print(requests.get('http://192.168.0.100/restapi/snmp/users/'+_user+' / ←
    ↪ subtree_access/',auth=auth,headers=headers).json())
```

⇒

```
{'energyObject': 'readonly'}
```

[Browse more samples](#)

9.13.1 Subtree access



The value is subject to the following constraints: [OID subtrees](#)[index of the value]

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Full	OIDs can be read and written by the user
constant "readonly"	Read-only	OIDs can only be read, not written, by the user
constant false	None	OIDs can neither be read nor written by the user
constant null	Default	No access rule present (permissions are determined by parent OID access levels, or denied)

Sample `curl` read command (note that `:user` and `:subtree_access` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/snmp/users/:user/subtree_access/:subtree_access/"
```

⇒

```
"readonly"
```

Sample CLI read command (note that `user` and `subtree_access` are variables):

```
uom get "snmp/users/${user}/subtree_access/${subtree_access}"
```

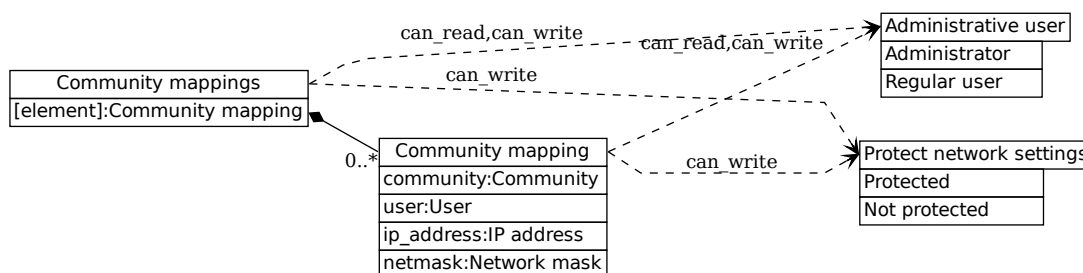
⇒

```
"readonly"
```

[Browse more samples](#)

9.14 Community mappings

array	snmp/community_mappings/
Mappings of SNMP v1/v2c communities to user names	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

This array contains [Community mapping](#) elements.

Sample CLI read command:

```
uom get "snmp/community_mappings"
```

⇒

```
[{"ip_address":"192.168.161.122","user":"userPpigV","netmask":"255.255.255.0", "↵
↵ community":"private"}]
```

Sample uom library write command:

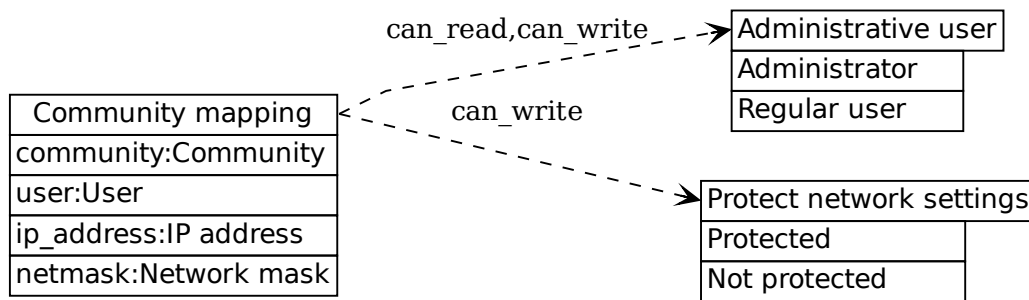
```
uom.snmp.community_mappings={community="pdeVuA4B9",ip_address="10.38.76.191", ↵
↵ netmask="255.0.0.0",user="usernRE3w"},{community="private",ip_address ↵
↵ ="192.168.20.170",netmask="255.255.255.0",user="usertjjHOL"}}
```

[Browse more samples](#)

See also [Community mappings: Community mapping](#)

9.15 Community mappings: Community mapping

object	snmp/community_mappings/N/
Properties of a community mapping	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This object represents a value in persistent storage.

This object contains the following items:

community	Community
user	User
ip_address	IP address
netmask	Network mask

Sample requests deletion command (note that `_community_mapping_index` is a variable):

```
requests.delete('http://192.168.0.100/restapi/snmp/community_mappings/'+str(↵
↵ _community_mapping_index)+'/', auth=auth, headers=headers)
```

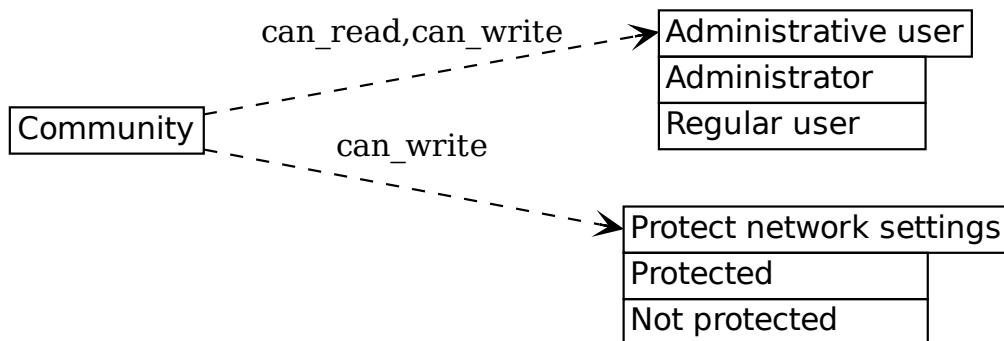
Sample curl deletion command (note that `:community_mapping_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X DELETE -H "Accept: application/json ↵
↵ " "http://192.168.0.100/restapi/snmp/community_mappings/: ↵
↵ community_mapping_index/"
```

[Browse more samples](#)

9.15.1 Community

string	snmp/community_mappings/N/community/
The community identifier	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample uom library read command (note that `_community_mapping_index` is a variable):

```
print(uom.dump(uom.snmp.community_mappings[_community_mapping_index].community))
```

⇒

```
"Kg86ZPO7"
```

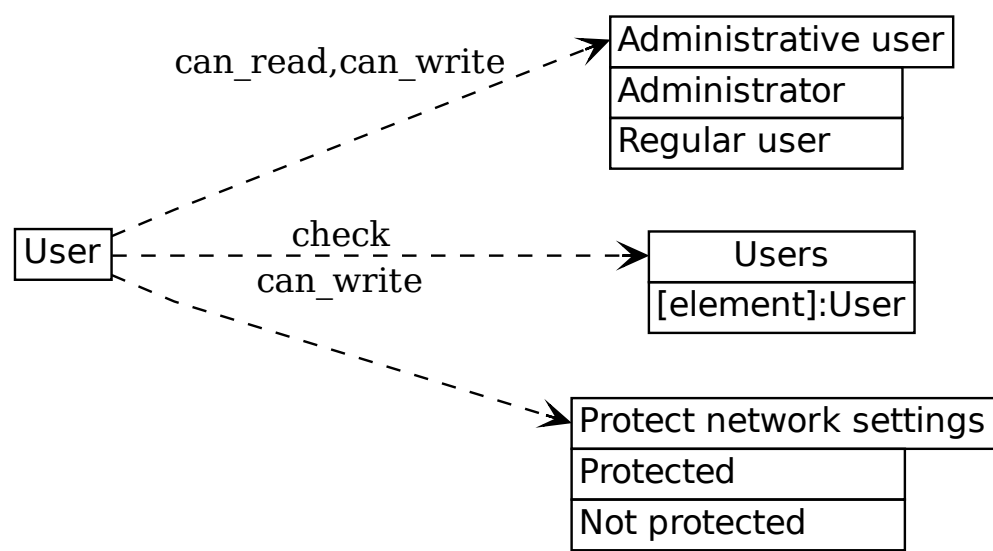
Sample requests write command (note that `_community_mapping_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/snmp/community_mappings/'+str( ↵
    ↵ _community_mapping_index)+'community/', auth=auth, headers=headers, json=' ↵
    ↵ public')
```

[Browse more samples](#)

9.15.2 User

string	snmp/community_mappings/N/user/
The user identifier	



The value is subject to the following constraints: `users[the value]`

Retrieving the value is denied if not `administrative user`

Changing the value is denied if any of the following is true:

- not `administrative user`
- `protect network settings`

This string represents a value in persistent storage.

Sample `curl` write command (note that `:community_mapping_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"user0iGB4\" \"http ↵
↵ ://192.168.0.100/restapi/snmp/community_mappings/:community_mapping_index/ ↵
↵ user/"
```

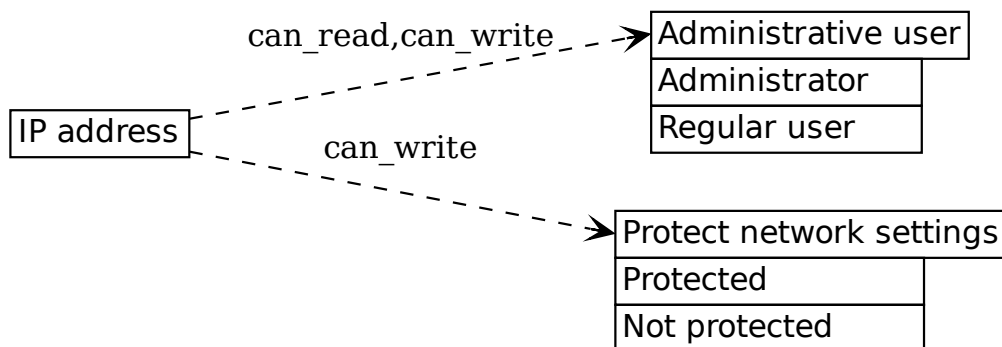
Sample `requests` write command (note that `_community_mapping_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/snmp/community_mappings/'+str( ↵
↵ _community_mapping_index)+'/user/', auth=auth, headers=headers, json=' ↵
↵ userVqRV1')
```

[Browse more samples](#)

9.15.3 IP address

string	snmp/community_mappings/N/ip_address/
IP address allowed to connect	



The value is subject to the following constraints: **the value** matches $^([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5]).{3}([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])$$

Retrieving the value is denied if not **administrative user**

Changing the value is denied if any of the following is true:

- not **administrative user**
- **protect network settings**

This string represents a value in persistent storage.

Sample requests read command (note that `_community_mapping_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/snmp/community_mappings/'+str(↵
↵ _community_mapping_index)+'ip_address/', auth=auth, headers=headers).json())
```

⇒

```
'10.166.254.96'
```

Sample CLI read command (note that `community_mapping_index` is a variable):

```
uom get "snmp/community_mappings/${community_mapping_index}/ip_address"
```

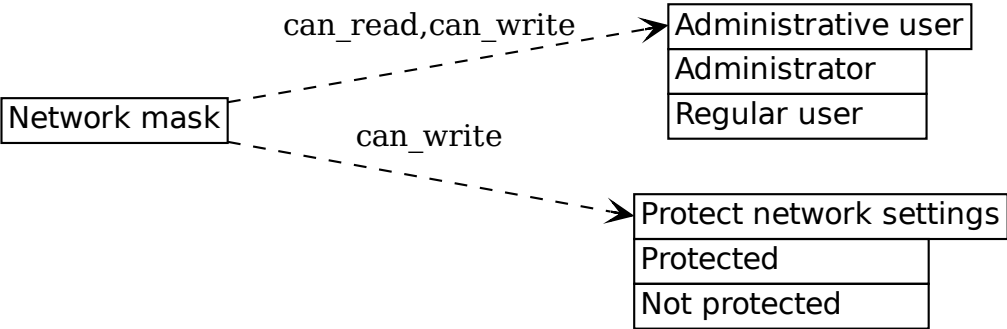
⇒

```
"192.168.88.182"
```

[Browse more samples](#)

9.15.4 Network mask

string	snmp/community_mappings/N/netmask/
Network mask allowed to connect	



The value is subject to the following constraints: [the value](#) matches `^((2(5[42]|4[80]|24)|192|128|0).0.0.0|255.(2(5[42]|4[80]|24)|192|128|0).0.0.0|255.0.0.0|255.255.255.0|255.255.255.255))$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample CLI read command (note that `community_mapping_index` is a variable):

```
uom get "snmp/community_mappings/${community_mapping_index}/netmask"
```

⇒

```
"255.255.255.0"
```

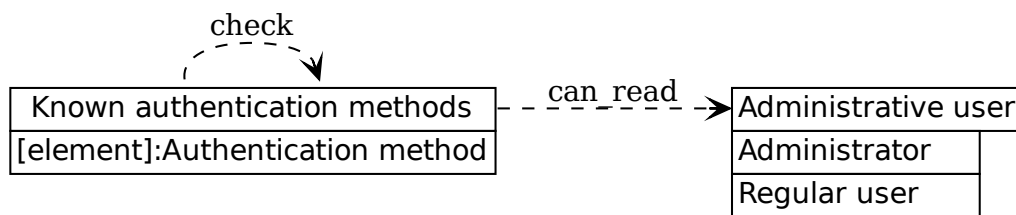
Sample `curl` write command (note that `:community_mapping_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵  
  ↵ json" -H "Accept: application/json" --data-binary "\"255.255.255.0\"" "http ↵  
  ↵ ://192.168.0.100/restapi/snmp/community_mappings/:community_mapping_index/ ↵  
  ↵ netmask/"
```

[Browse more samples](#)

9.16 Known authentication methods

map	snmp/known_auth_methods/
Map of known authentication methods	



Retrieving the value is denied if not [administrative user](#)

This map does not support direct modification.

This map represents a value in persistent storage.

This map contains [Authentication method](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command:

```
request.get({url:"snmp/known_auth_methods/"},function(error,response,body) {
  ↪ console.log(body) });
```

⇒

```
{ "sha1": "SHA1", "md5": "MD5" }
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
  ↪ restapi/snmp/known_auth_methods/"
```

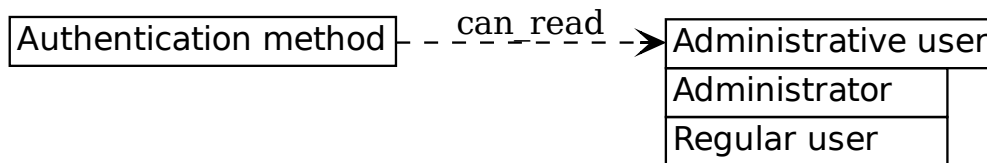
⇒

```
{ "sha1": "SHA1", "md5": "MD5" }
```

[Browse more samples](#)

9.16.1 Authentication method

string	snmp/known_auth_methods/S/
Authentication method name	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample `requests` read command (note that `_authentication_method` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/snmp/known_auth_methods/' +   

    _authentication_method+'/', auth=auth, headers=headers).json())
```

⇒

'MD5'

Sample CLI read command (note that `authentication_method` is a variable):

```
uom get "snmp/known_auth_methods/${authentication_method}"
```

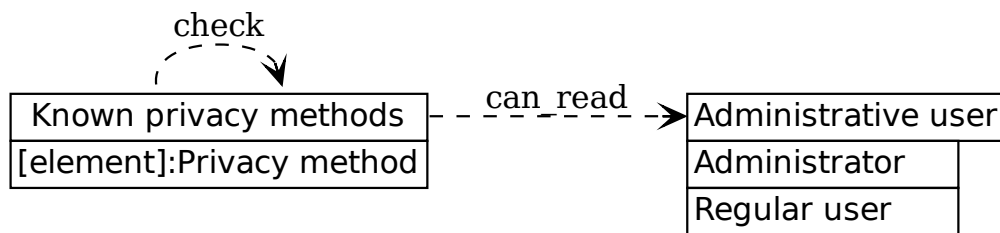
⇒

"MD5"

[Browse more samples](#)

9.17 Known privacy methods

map	snmp/known_priv_methods/
Map of known privacy methods	



Retrieving the value is denied if not [administrative user](#)

This map does not support direct modification.

This map represents a value in persistent storage.

This map contains [Privacy method](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command:

```
uom get "snmp/known_priv_methods"
```

⇒

```
{"aes": "AES", "des": "DES"}
```

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/snmp/known_priv_methods/', auth= ↵
    ↵ auth, headers=headers).json())
```

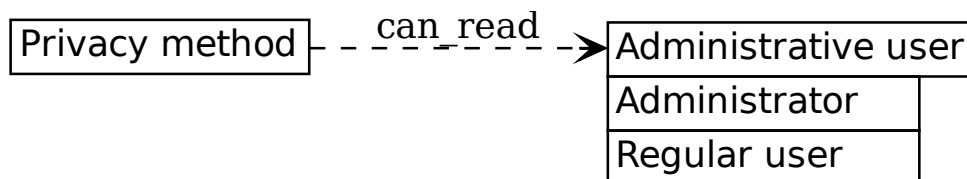
⇒

```
{'aes': 'AES', 'des': 'DES'}
```

[Browse more samples](#)

9.17.1 Privacy method

string	snmp/known_priv_methods/S/
Privacy method name	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

This string represents a value in persistent storage.

Sample `requests` read command (note that `_privacy_method` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/snmp/known_priv_methods/'+
    _privacy_method+'/', auth=auth, headers=headers).json())
```

⇒

'DES'

Sample `curl` read command (note that `:privacy_method` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
    restapi/snmp/known_priv_methods/:privacy_method/"
```

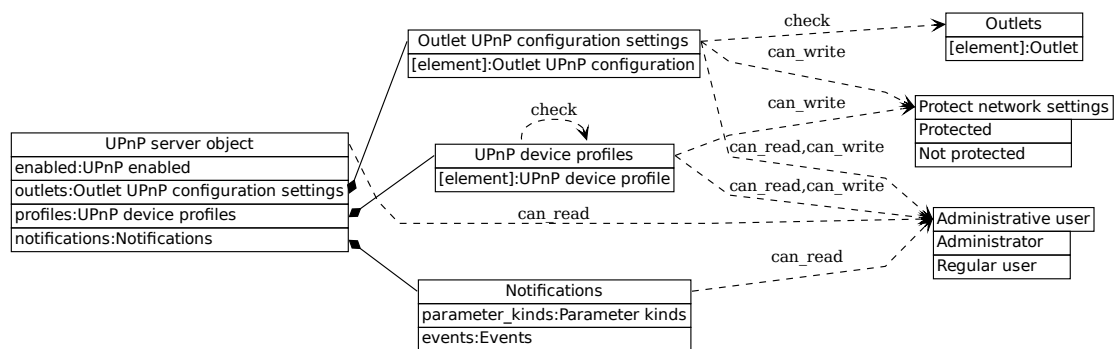
⇒

"AES"

[Browse more samples](#)

10 UPnP server object

object	upnp/
Object representing the UPnP server configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

enabled	UPnP enabled
outlets	Outlet UPnP configuration settings
profiles	UPnP device profiles
notifications	Notifications

Sample JS request write command:

```
request.put ({url:"upnp/",body:<...>});
```

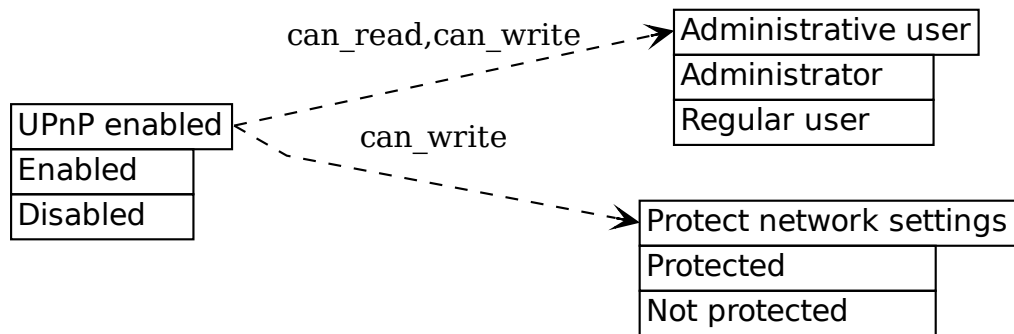
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "... " "http ↵
↵ ://192.168.0.100/restapi/upnp/"
```

[Browse more samples](#)

10.1 UPnP enabled

sum (boolean)	upnp/enabled/
UPnP enable status	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample JS request read command:

```
request.get({url:"upnp/enabled/"},function(error,response,body) {console.log(body ↵
  ↵ )});
```

⇒

true

Sample requests read command:

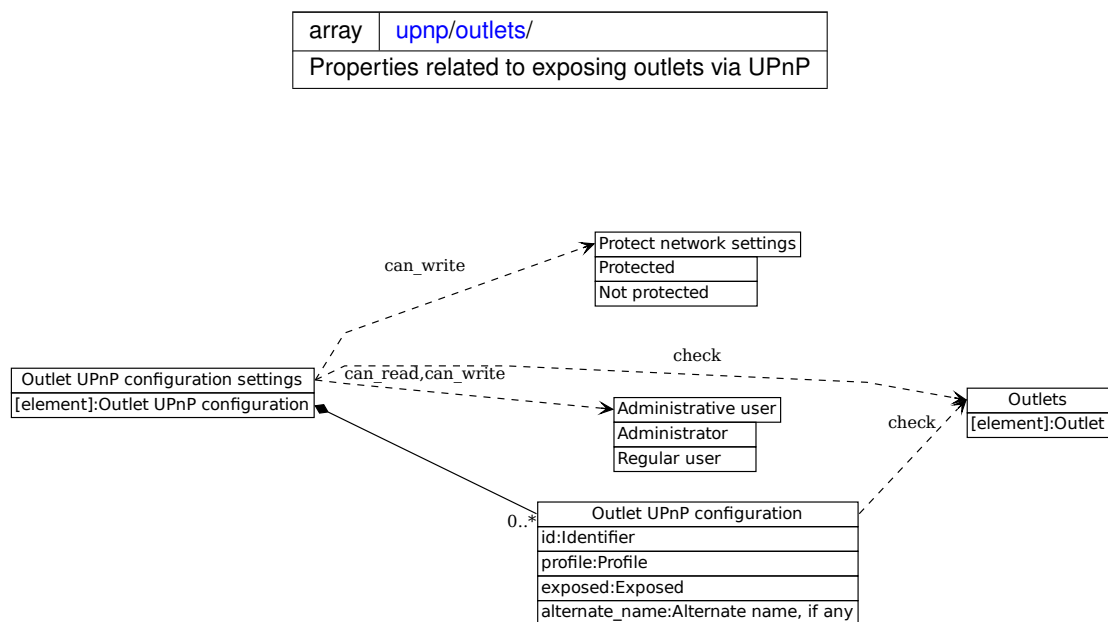
```
print(requests.get('http://192.168.0.100/restapi/upnp/enabled/',auth=auth,headers ↵
  ↵ =headers).json())
```

⇒

True

[Browse more samples](#)

10.2 Outlet UPnP configuration settings



The value is subject to the following constraints: length of [the value](#) is equal to length of [outlets](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

This array contains [Outlet UPnP configuration](#) elements.

Sample CLI read command:

```
uom get "upnp/outlets"
```

⇒

Sample CLI outlet UPnP configuration creation command:

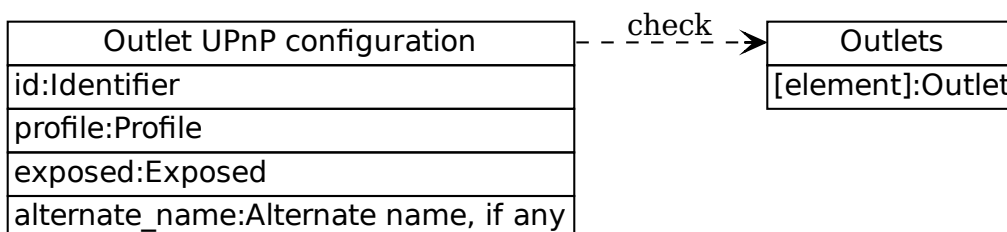
```
uom insert "upnp/outlets/4" "{ \"exposed\":false, \"alternate_name\":null, \"id ↵
↵ \"\": \"1944d90d4\", \"profile\": \"belkin_wemo_socket\" }"
```

[Browse more samples](#)

See also [Outlet UPnP configuration settings: Outlet UPnP configuration](#)

10.3 Outlet UPnP configuration settings: Outlet UPnP configuration

object	upnp/outlets/N/
Properties related to exposing the outlet via UPnP	



The value is subject to the following constraints: [outlets](#)[index of the value]

This object contains the following items:

id	Identifier
profile	Profile
exposed	Exposed
alternate_name	Alternate name, if any

Sample JS request read command (note that `_outlet_upnp_configuration_index` is a variable):

```
request.get({url:"upnp/outlets/"+_outlet_upnp_configuration_index.toString() ↵
↵ +"/"},function(error,response,body) {console.log(body)});
```

⇒

```
{ "exposed": false, "alternate_name": null, "id": "1944d90d7", "profile": " ↵
↵ belkin_wemo_socket" }
```

Sample requests read command (note that `_outlet_upnp_configuration_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/upnp/outlets/'+str( ↵
↵ _outlet_upnp_configuration_index)+'/',auth=auth,headers=headers).json())
```

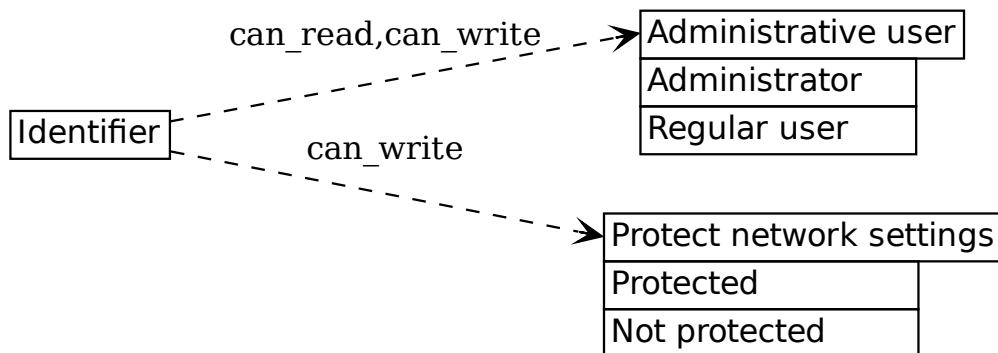
⇒

```
{ 'exposed': True, 'alternate_name': None, 'id': '1944d90d5', 'profile': ' ↵
↵ belkin_wemo_socket' }
```

[Browse more samples](#)

10.3.1 Identifier

string	upnp/outlets/N/id/
Outlet device identifier seed	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample requests read command (note that `_outlet_upnp_configuration_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/upnp/outlets/'+str(↵
↵ _outlet_upnp_configuration_index)+'id/',auth=auth,headers=headers).json())
```

⇒

```
'1944d90d6'
```

Sample CLI read command (note that `outlet_upnp_configuration_index` is a variable):

```
uom get "upnp/outlets/${outlet_upnp_configuration_index}/id"
```

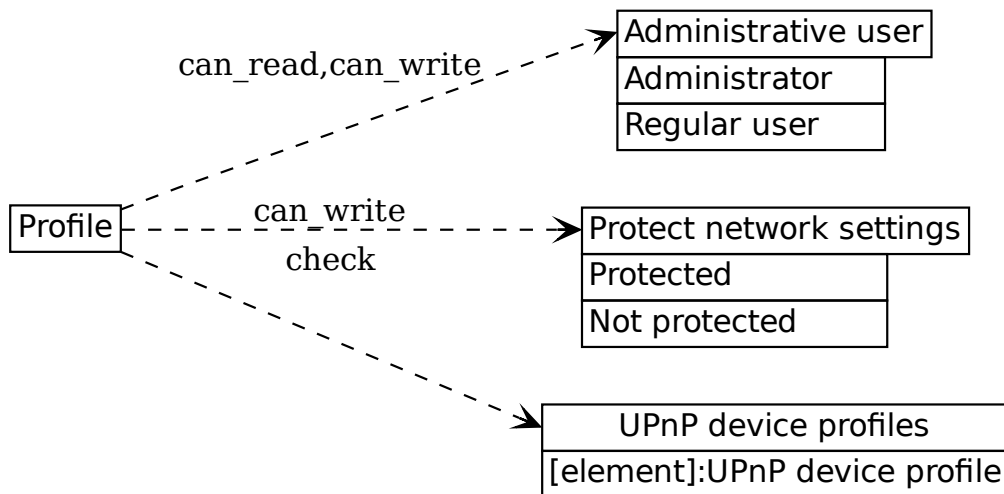
⇒

```
"1944d90d0"
```

[Browse more samples](#)

10.3.2 Profile

string	upnp/outlets/N/profile/
Outlet device profile	



The value is subject to the following constraints: [UPnP device profiles\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample uom library write command (note that `_outlet_upnp_configuration_index` is a variable):

```
uom.upnp.outlets[_outlet_upnp_configuration_index].profile="belkin_wemo_socket"
```

Sample requests read command (note that `_outlet_upnp_configuration_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/upnp/outlets/'+str(↵
↵ _outlet_upnp_configuration_index)+'profile/', auth=auth, headers=headers) . ↵
↵ json())
```

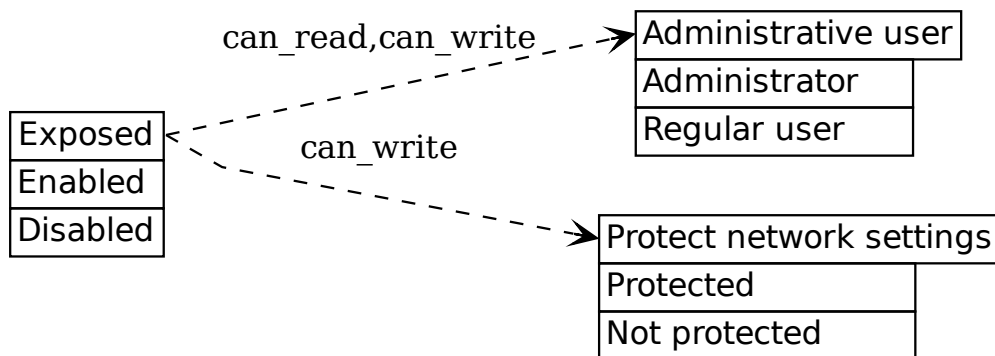
⇒

```
'belkin_wemo_socket'
```

[Browse more samples](#)

10.3.3 Exposed

sum (boolean)	upnp/outlets/N/exposed/
Outlet is exposed via UPnP	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `uom` library write command (note that `_outlet_upnp_configuration_index` is a variable):

```
uom.upnp.outlets[_outlet_upnp_configuration_index].exposed=false
```

Sample `curl` read command (note that `:outlet_upnp_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/upnp/outlets/:outlet_upnp_configuration_index/exposed/"
```

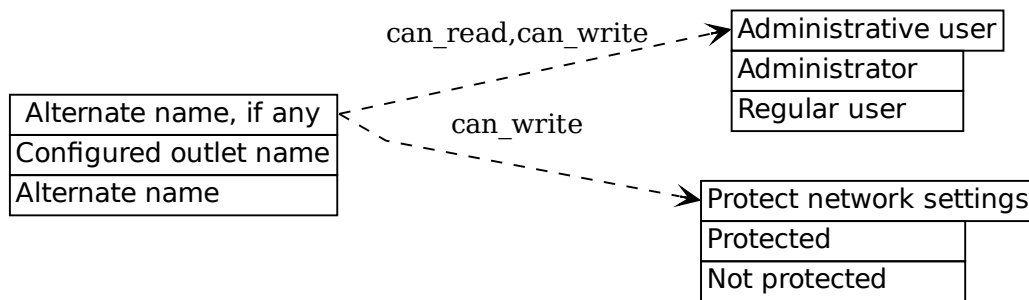
⇒

false

[Browse more samples](#)

10.3.4 Alternate name, if any

sum (optional string)	upnp/outlets/N/alternate_name/
Alternate name for the same outlet to be used instead of the configured name, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Configured outlet name	Use the outlet's configured name	
string	Alternate name	Alternate name for the same outlet to be used instead of the configured name	the value is not equal to ""

Sample requests read command (note that `_outlet_upnp_configuration_index` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/upnp/outlets/'+str( ↵
    ↵ _outlet_upnp_configuration_index)+'/alternate_name/', auth=auth, headers= ↵
    ↵ headers).json())
```

⇒

None

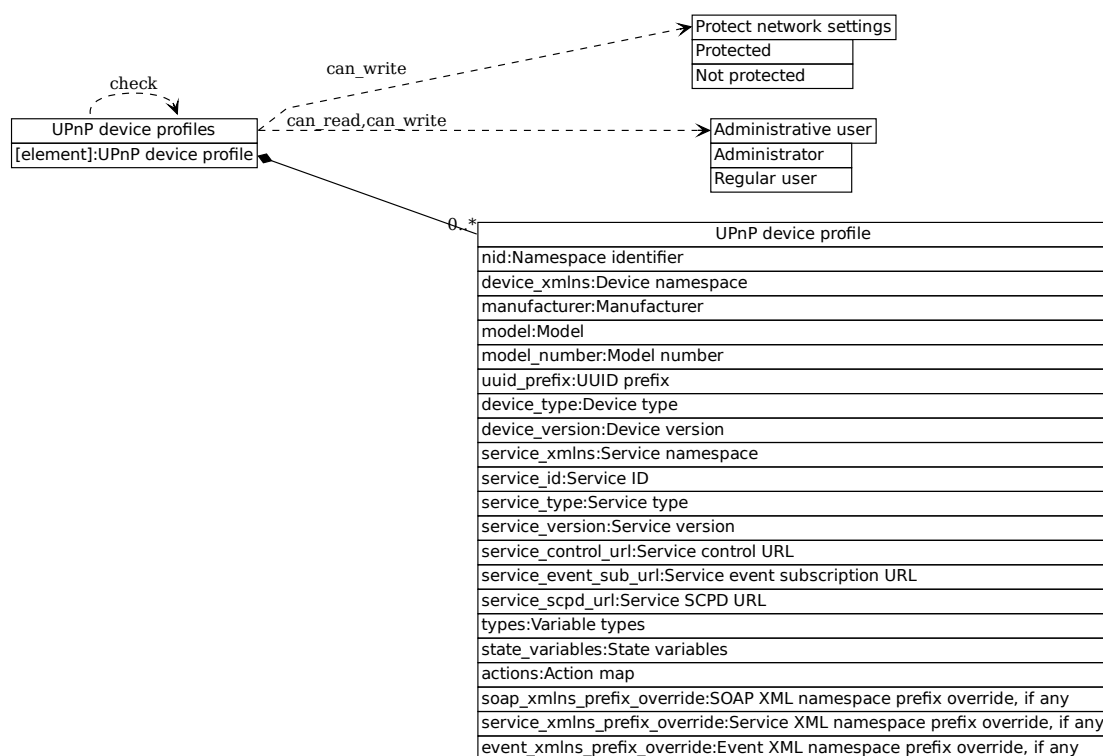
Sample CLI write command (note that `outlet_upnp_configuration_index` is a variable):

```
uom set "upnp/outlets/${outlet_upnp_configuration_index}/alternate_name" "null"
```

[Browse more samples](#)

10.4 UPnP device profiles

map	upnp/profiles/
Map of UPnP device exposure settings	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This map represents a value in persistent storage.

This map contains [UPnP device profile](#) elements.

Sample `curl` UPnP device profile creation command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "... " "http ↵
↵ ://192.168.0.100/restapi/upnp/profiles/belkin_wemo_socket/"
```

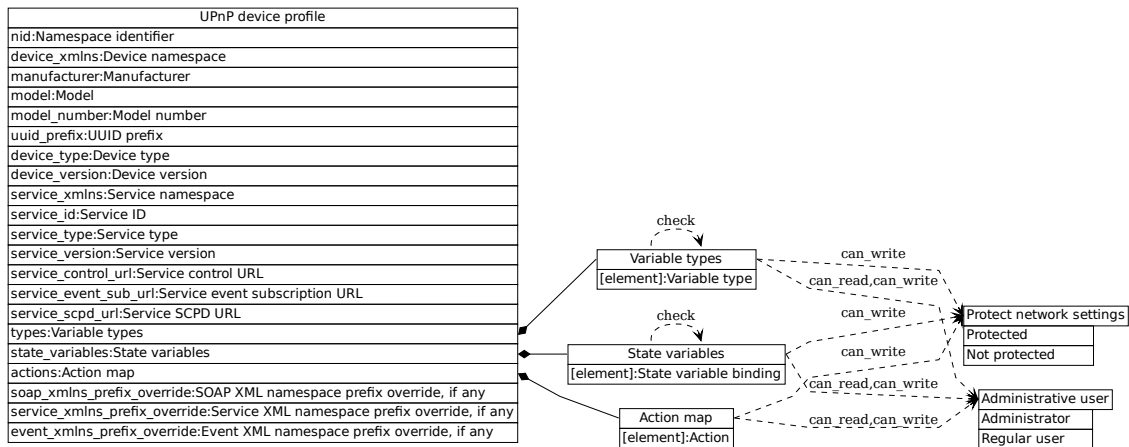
Sample CLI write command:

```
uom set "upnp/profiles" ...
```

[Browse more samples](#)

10.4.1 UPnP device profile

object	upnp/profiles/S/
UPnP device exposure settings	



This object contains the following items:

nid	Namespace identifier
device_xmlns	Device namespace
manufacturer	Manufacturer
model	Model
model_number	Model number
uuid_prefix	UUID prefix
device_type	Device type
device_version	Device version
service_xmlns	Service namespace
service_id	Service ID
service_type	Service type
service_version	Service version
service_control_url	Service control URL
service_event_sub_url	Service event subscription URL
service_scpd_url	Service SCPD URL
types	Variable types
state_variables	State variables
actions	Action map
soap_xmlns_prefix_override	SOAP XML namespace prefix override, if any
service_xmlns_prefix_override	Service XML namespace prefix override, if any
event_xmlns_prefix_override	Event XML namespace prefix override, if any

Sample `curl` write command (note that `:upnp_device_profile` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
  ↪ json" -H "Accept: application/json" --data-binary "... " "http
  ↪ ://192.168.0.100/restapi/upnp/profiles/:upnp_device_profile/"
```

Sample `curl` deletion command (note that `:upnp_device_profile` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X DELETE -H "Accept: application/json" \
  -> "http://192.168.0.100/restapi/upnp/profiles/:upnp_device_profile/"
```

[Browse more samples](#)

See also [UPnP device profile: Namespace identifier](#)

See also [UPnP device profile: Device namespace](#)

See also [UPnP device profile: Manufacturer](#)

See also [UPnP device profile: Model](#)

See also [UPnP device profile: Model number](#)

See also [UPnP device profile: UUID prefix](#)

See also [UPnP device profile: Device type](#)

See also [UPnP device profile: Device version](#)

See also [UPnP device profile: Service namespace](#)

See also [UPnP device profile: Service ID](#)

See also [UPnP device profile: Service type](#)

See also [UPnP device profile: Service version](#)

See also [UPnP device profile: Service control URL](#)

See also [UPnP device profile: Service event subscription URL](#)

See also [UPnP device profile: Service SCPD URL](#)

See also [UPnP device profile: Variable types](#)

See also [UPnP device profile: State variables](#)

See also [UPnP device profile: Action map](#)

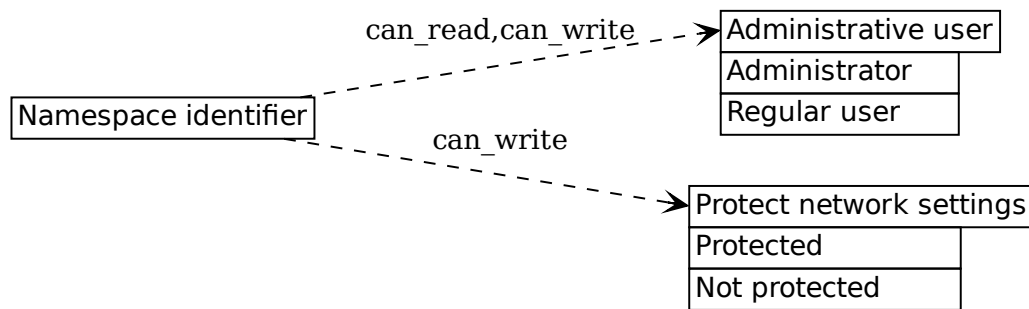
See also [UPnP device profile: SOAP XML namespace prefix override, if any](#)

See also [UPnP device profile: Service XML namespace prefix override, if any](#)

See also [UPnP device profile: Event XML namespace prefix override, if any](#)

10.5 UPnP device profile: Namespace identifier

string	upnp/profiles/S/nid/
URN namespace identifier	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample uom library read command (note that `_upnp_device_profile` is a variable):

```
print(uom.dump(uom.upnp.profiles[_upnp_device_profile].nid))
```

⇒

```
"Belkin"
```

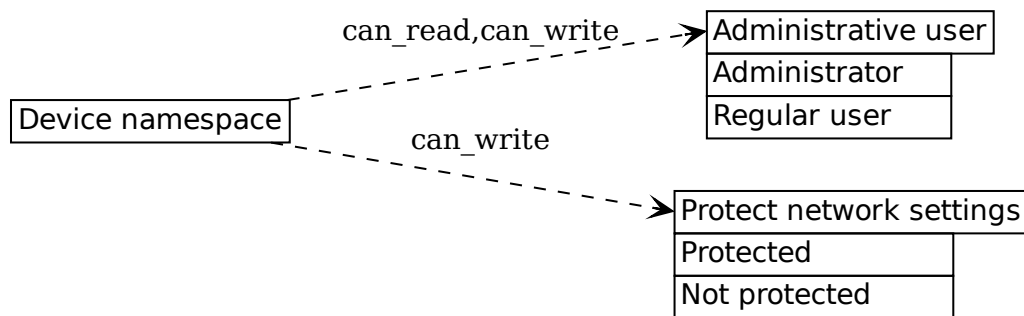
Sample uom library write command (note that `_upnp_device_profile` is a variable):

```
uom.upnp.profiles[_upnp_device_profile].nid="Belkin"
```

[Browse more samples](#)

10.6 UPnP device profile: Device namespace

string	upnp/profiles/S/device_xmlns/
Device description XML namespace	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `uom` library read command (note that `_upnp_device_profile` is a variable):

```
print(uom.dump(uom.upnp.profiles[_upnp_device_profile].device_xmlns))
```

⇒

```
"urn:Belkin:device-1-0"
```

Sample `curl` read command (note that `:upnp_device_profile` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/upnp/profiles/:upnp_device_profile/device_xmlns/"
```

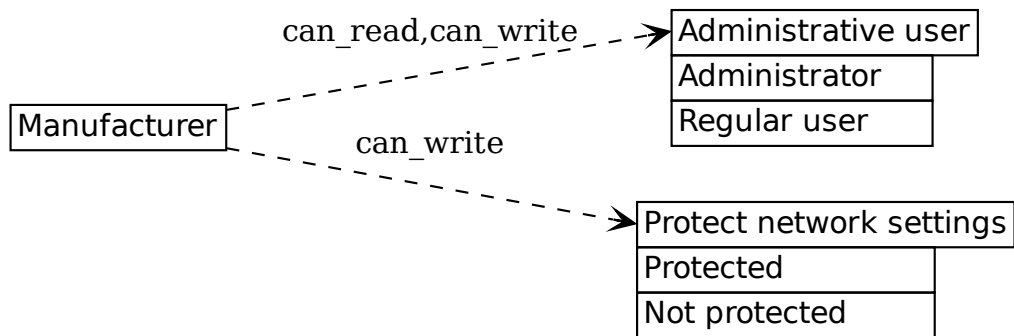
⇒

```
"urn:Belkin:device-1-0"
```

[Browse more samples](#)

10.7 UPnP device profile: Manufacturer

string	upnp/profiles/S/manufacturer/
Manufacturer name	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample uom library write command (note that `_upnp_device_profile` is a variable):

```
uom.upnp.profiles[_upnp_device_profile].manufacturer="Belkin International Inc."
```

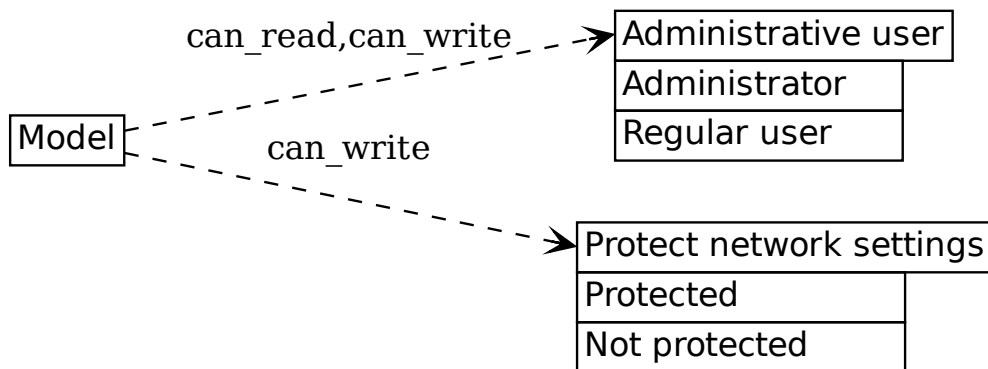
Sample CLI write command (note that `upnp_device_profile` is a variable):

```
uom set "upnp/profiles/${upnp_device_profile}/manufacturer" "\"Belkin ↵
↵ International Inc.\""
```

[Browse more samples](#)

10.8 UPnP device profile: Model

string	upnp/profiles/S/model/
Model name	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample requests write command (note that `_upnp_device_profile` is a variable):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
↵ '+'/model/', auth=auth, headers=headers, json='DLI emulated Belkin socket')
```

Sample requests read command (note that `_upnp_device_profile` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/upnp/profiles/'+ ↵
↵ _upnp_device_profile+'/model/', auth=auth, headers=headers).json())
```

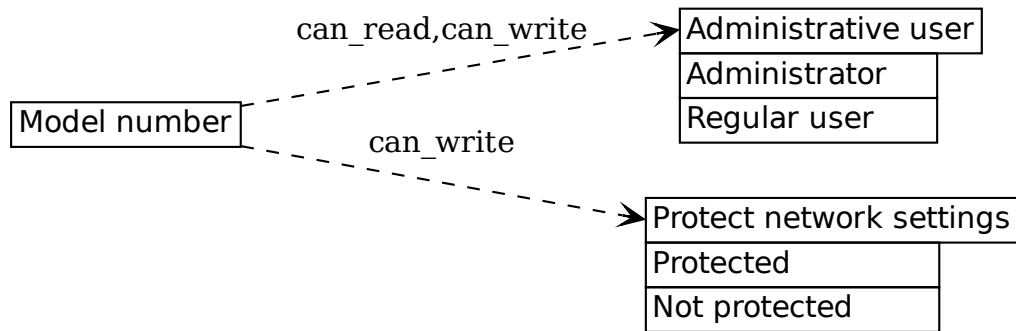
⇒

'DLI emulated Belkin socket'

[Browse more samples](#)

10.9 UPnP device profile: Model number

string	upnp/profiles/S/model_number/
Model number string	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `requests` write command (note that `_upnp_device_profile` is a variable):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
    ↵ +'/model_number/', auth=auth, headers=headers, json='')
```

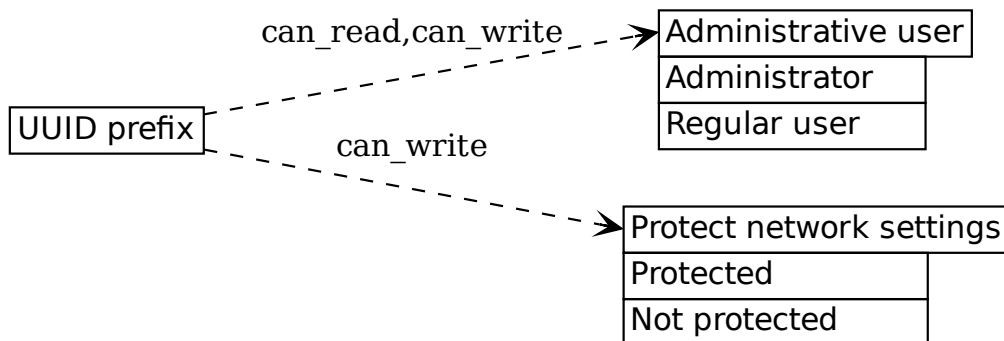
Sample JS request write command (note that `_upnp_device_profile` is a variable):

```
request.put({url:"upnp/profiles/"+_upnp_device_profile+"/model_number/", body:""}) ↵
    ↵ ;
```

[Browse more samples](#)

10.10 UPnP device profile: UUID prefix

string	upnp/profiles/S/uuid_prefix/
Outlet device identifier prefix	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample CLI read command (note that `upnp_device_profile` is a variable):

```
uom get "upnp/profiles/${upnp_device_profile}/uuid_prefix"
```

⇒

```
"Socket-1_0"
```

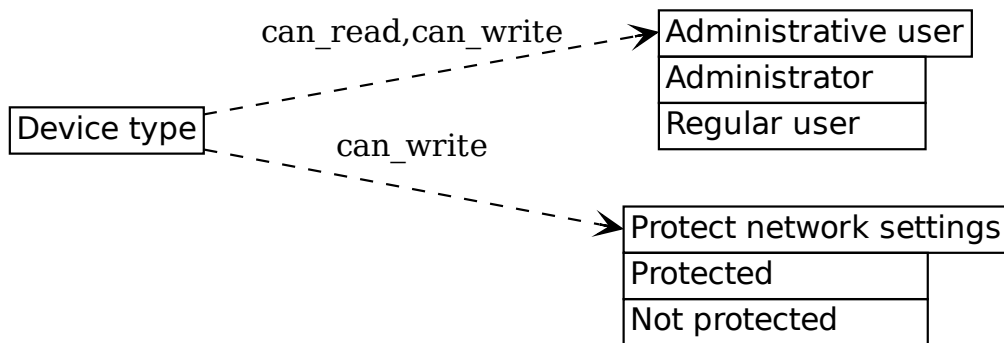
Sample `curl` write command (note that `:upnp_device_profile` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"Socket-1_0\"" "http ↵
↵ ://192.168.0.100/restapi/upnp/profiles/:upnp_device_profile/uuid_prefix/"
```

[Browse more samples](#)

10.11 UPnP device profile: Device type

string	upnp/profiles/S/device_type/
Device type identifier	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `requests` write command (note that `_upnp_device_profile` is a variable):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
    ↵ '+/device_type/', auth=auth, headers=headers, json='controllee')
```

Sample `requests` read command (note that `_upnp_device_profile` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/upnp/profiles/'+ ↵
    ↵ _upnp_device_profile+' /device_type/', auth=auth, headers=headers).json())
```

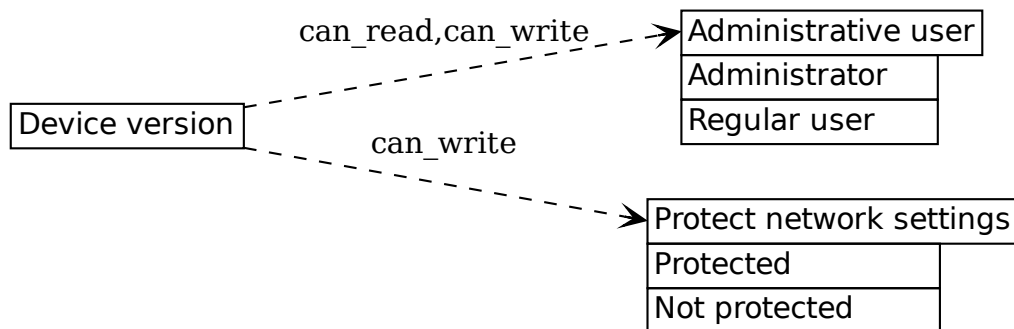
⇒

'controllee'

[Browse more samples](#)

10.12 UPnP device profile: Device version

string	upnp/profiles/S/device_version/
Device version string	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample requests write command (note that `_upnp_device_profile` is a variable):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
↵ +'/device_version/', auth=auth, headers=headers, json='1')
```

Sample requests read command (note that `_upnp_device_profile` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/upnp/profiles/'+ ↵
↵ _upnp_device_profile+'/device_version/', auth=auth, headers=headers).json())
```

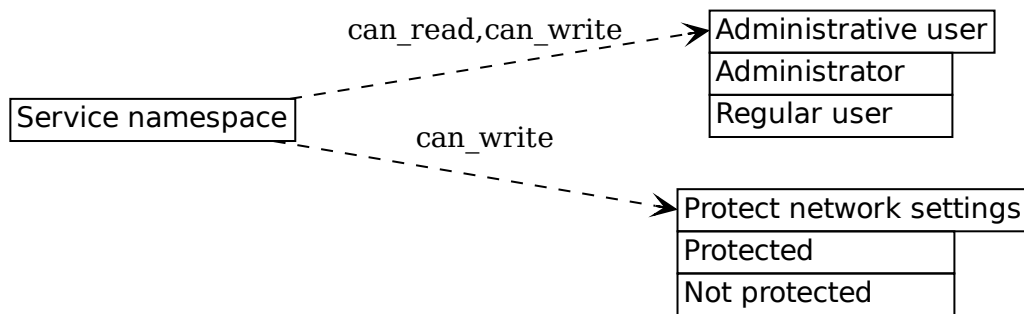
⇒

'1'

[Browse more samples](#)

10.13 UPnP device profile: Service namespace

string	upnp/profiles/S/service_xmlns/
Service description XML namespace	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample JS request write command (note that `_upnp_device_profile` is a variable):

```
request.put({url:"upnp/profiles/"+_upnp_device_profile+"/service_xmlns/",body:" ↵
↵ urn:Belkin:service-1-0"});
```

Sample requests read command (note that `_upnp_device_profile` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/upnp/profiles/'+ ↵
↵ _upnp_device_profile+"/service_xmlns/',auth=auth,headers=headers).json())
```

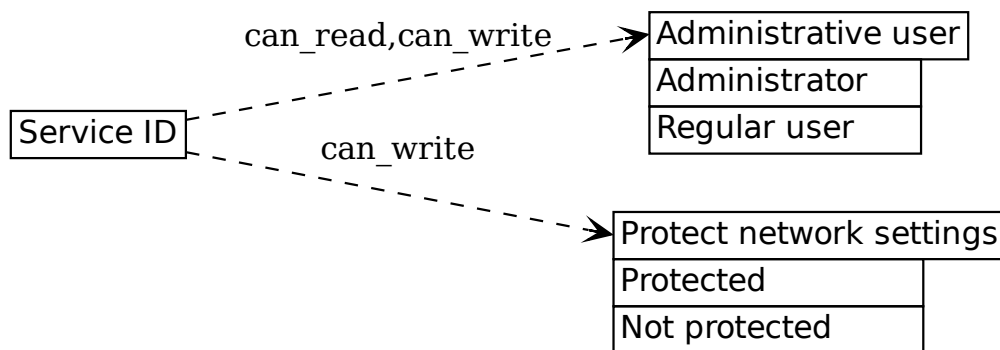
⇒

```
'urn:Belkin:service-1-0'
```

[Browse more samples](#)

10.14 UPnP device profile: Service ID

string	upnp/profiles/S/service_id/
Service identifier	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `curl` write command (note that `:upnp_device_profile` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/↵
↵ json" -H "Accept: application/json" --data-binary "\"basicevent1\"" "http ↵
↵ ://192.168.0.100/restapi/upnp/profiles/:upnp_device_profile/service_id/"
```

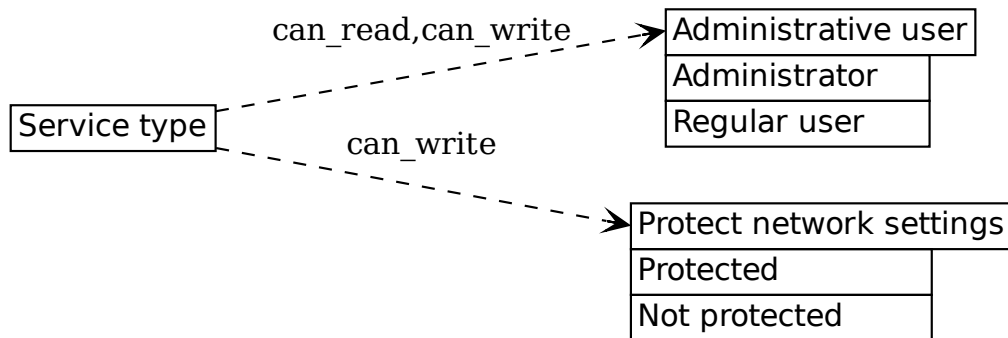
Sample CLI write command (note that `upnp_device_profile` is a variable):

```
uom set "upnp/profiles/${upnp_device_profile}/service_id" "\"basicevent1\""
```

[Browse more samples](#)

10.15 UPnP device profile: Service type

string	upnp/profiles/S/service_type/
Service type identifier	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample CLI read command (note that `upnp_device_profile` is a variable):

```
uom get "upnp/profiles/${upnp_device_profile}/service_type"
```

⇒

```
"basicevent"
```

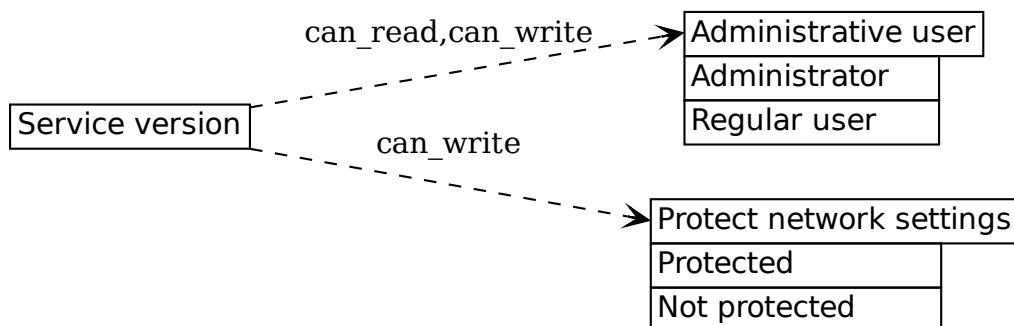
Sample `requests` write command (note that `_upnp_device_profile` is a variable):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile +  
↳ +'/service_type/', auth=auth, headers=headers, json='basicevent')
```

[Browse more samples](#)

10.16 UPnP device profile: Service version

string	upnp/profiles/S/service_version/
Service version string	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `curl` read command (note that `:upnp_device_profile` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/upnp/profiles/:upnp_device_profile/service_version/"
```

⇒

"1"

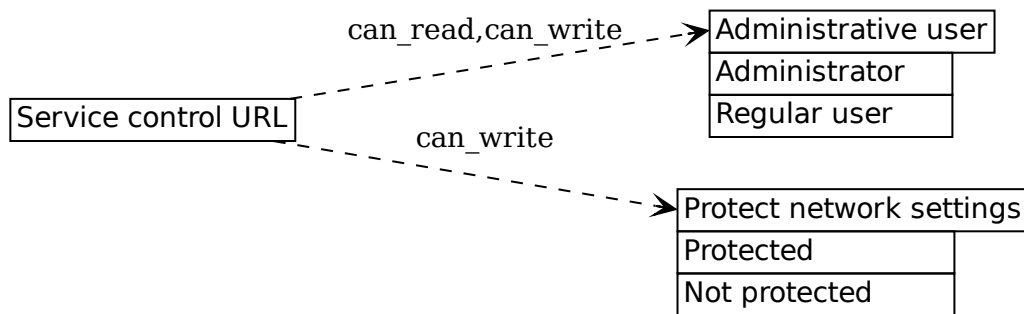
Sample JS request `write` command (note that `_upnp_device_profile` is a variable):

```
request.put ({url: "upnp/profiles/" + _upnp_device_profile + "/service_version/", body ↵
↵ : "1"});
```

[Browse more samples](#)

10.17 UPnP device profile: Service control URL

string	upnp/profiles/S/service_control_url/
URL to send service control requests to	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample uom library write command (note that `_upnp_device_profile` is a variable):

```
uom.upnp.profiles[_upnp_device_profile].service_control_url="/upnp/control/ ↵
↵ basicevent1"
```

Sample JS request read command (note that `_upnp_device_profile` is a variable):

```
request.get({url:"upnp/profiles/"+_upnp_device_profile+"/service_control_url/"}, ↵
↵ function(error,response,body) {console.log(body)});
```

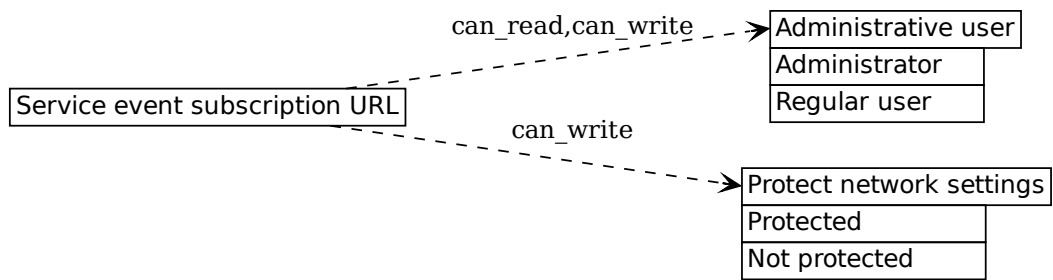
⇒

"/upnp/control/basicevent1"

[Browse more samples](#)

10.18 UPnP device profile: Service event subscription URL

string	upnp/profiles/S/service_event_sub_url/
URL to send service subscription management requests to	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample JS request write command (note that `_upnp_device_profile` is a variable):

```
request.put({url:"upnp/profiles/"+_upnp_device_profile+"/service_event_sub_url/",
↔ body:"/upnp/event/basicevent1"});
```

Sample CLI read command (note that `upnp_device_profile` is a variable):

```
uom get "upnp/profiles/${upnp_device_profile}/service_event_sub_url"
```

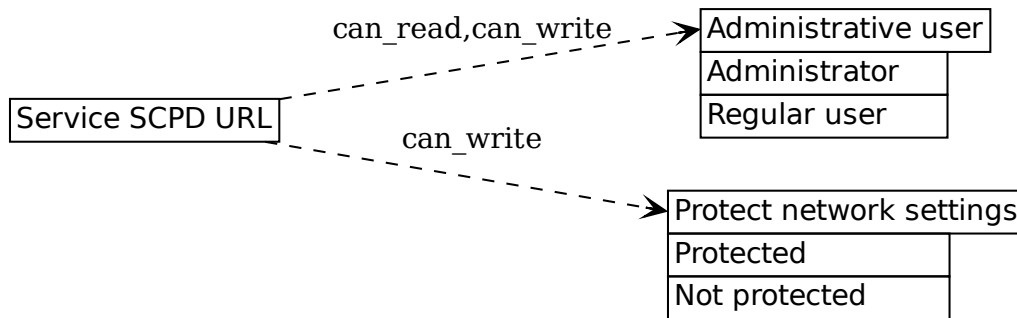
⇒

```
"/upnp/event/basicevent1"
```

[Browse more samples](#)

10.19 UPnP device profile: Service SCPD URL

string	upnp/profiles/S/service_scpd_url/
Service control protocol document URL	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample JS request write command (note that `_upnp_device_profile` is a variable):

```
request.put ({url:"upnp/profiles/"+_upnp_device_profile+"/service_scpd_url/",body ↵
↵ :"/eventservice.xml"});
```

Sample CLI read command (note that `upnp_device_profile` is a variable):

```
uom get "upnp/profiles/${upnp_device_profile}/service_scpd_url"
```

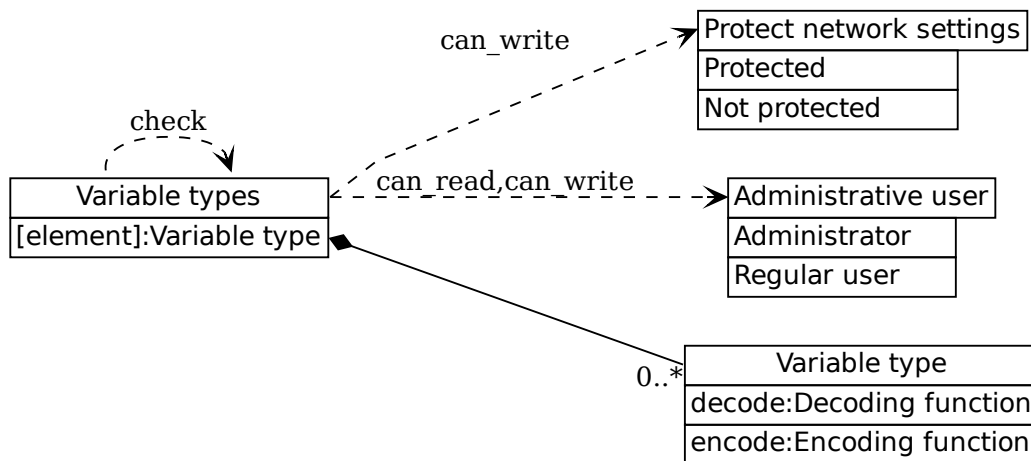
⇒

```
"/eventservice.xml"
```

[Browse more samples](#)

10.20 UPnP device profile: Variable types

map	upnp/profiles/S/types/
Map of supported variable types	



Retrieving the value is denied if not **administrative user**

Changing the value is denied if any of the following is true:

- not **administrative user**
- **protect network settings**

This map is composite, i.e. is modified as a whole.

This map represents a value in persistent storage.

This map contains **Variable type** elements.

Sample uom library write command (note that `_upnp_device_profile` is a variable):

```
uom.upnp.profiles[_upnp_device_profile].types={Boolean={decode="function(str) ↵
↵ return str=="1" end",encode="function(value) return value and \"1\" or ↵
↵ \"0\" end"},string={decode="function(str) return str end",encode="function( ↵
↵ value) return value end"}}
```

Sample requests write command (note that `_upnp_device_profile` is a variable):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
↵ +'/types/',auth=auth,headers=headers,json={'Boolean': {'decode': 'function( ↵
↵ str) return str=="1" end', 'encode': 'function(value) return value and "1" ↵
↵ or "0" end'}, 'string': {'decode': 'function(str) return str end', 'encode ↵
↵ ': 'function(value) return value end'}})
```

[Browse more samples](#)

10.20.1 Variable type

object	upnp/profiles/S/types/S/
Variable type properties	

The value is subject to the following constraints: index of the value matches `^[a-zA-Z_][a-zA-Z_0-9]*$`

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

decode	Decoding function
encode	Encoding function

Sample `curl` write command (note that `:upnp_device_profile` and `:variable_type` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary '{"decode\":"function( ↵
↵ str) return str end\","encode\":"function(value) return value end\"}' " ↵
↵ http://192.168.0.100/restapi/upnp/profiles/:upnp_device_profile/types/: ↵
↵ variable_type/"
```

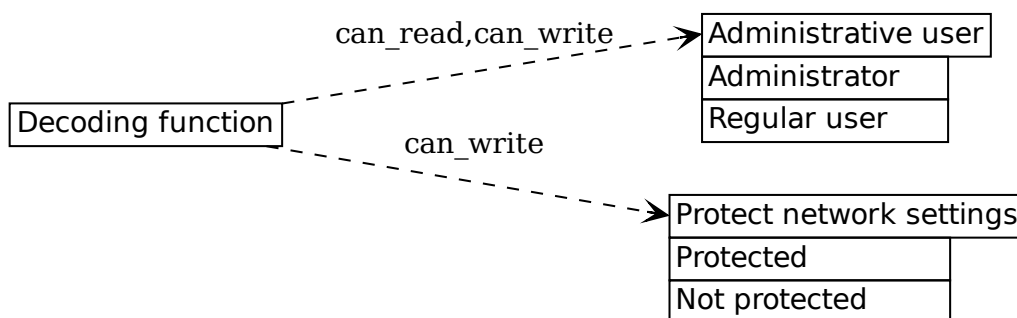
Sample `uom` library write command (note that `_upnp_device_profile` and `_variable_type` are variables):

```
uom.upnp.profiles[_upnp_device_profile].types[_variable_type]={decode="function( ↵
↵ str) return str=="1\" end",encode="function(value) return value and \"1\" ↵
↵ or \"0\" end"}
```

[Browse more samples](#)

string	upnp/profiles/S/types/S/decode/
Code of Lua function to decode and validate the value's string representation	

10.20.1.1 Decoding function



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample CLI write command (note that `upnp_device_profile` and `variable_type` are variables):

```
uom set "upnp/profiles/${upnp_device_profile}/types/${variable_type}/decode" "\" ↔
↔ function(str) return str==\\"1\\" end\""
```

Sample CLI read command (note that `upnp_device_profile` and `variable_type` are variables):

```
uom get "upnp/profiles/${upnp_device_profile}/types/${variable_type}/decode"
```

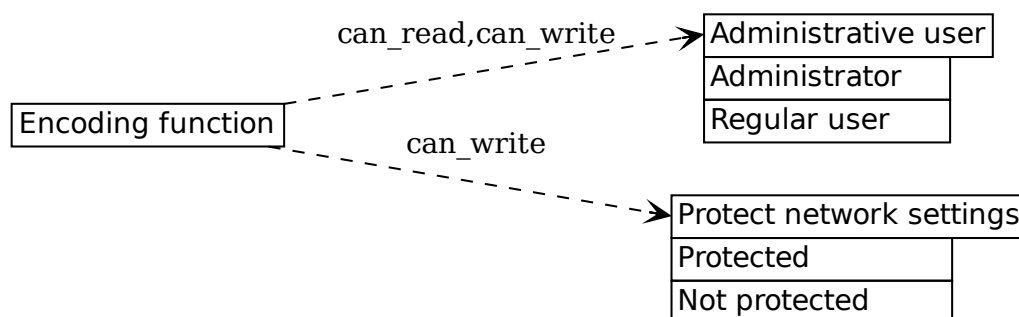
⇒

```
"function(str) return str end"
```

[Browse more samples](#)

string	upnp/profiles/S/types/S/encode/
Code of Lua function to check and encode the value to string representation	

10.20.1.2 Encoding function



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample uom library write command (note that `_upnp_device_profile` and `_variable_type` are variables):

```
uom.upnp.profiles[_upnp_device_profile].types[_variable_type].encode="function(↵
↵ value) return value and \"1\" or \"0\" end"
```

Sample curl read command (note that `:upnp_device_profile` and `:variable_type` are URL template arguments):

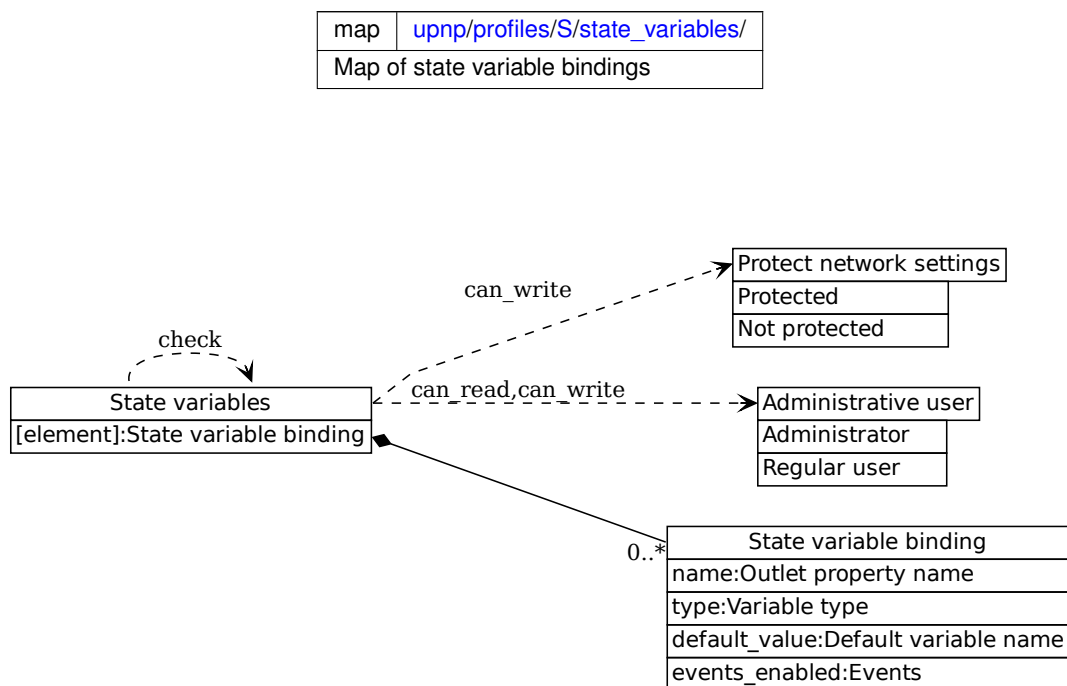
```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵
↵ restapi/upnp/profiles/:upnp_device_profile/types/:variable_type/encode/"
```

⇒

```
"function(value) return value end"
```

[Browse more samples](#)

10.21 UPnP device profile: State variables



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This map is composite, i.e. is modified as a whole.

This map represents a value in persistent storage.

This map contains [State variable binding](#) elements.

Sample JS request read command (note that `_upnp_device_profile` is a variable):

```
request.get({url:"upnp/profiles/"+_upnp_device_profile+"/state_variables/"}, ↵
  ↵ function(error,response,body) {console.log(body)});
```

⇒

```
{ "FriendlyName": { "default_value": "", "events_enabled": true, "name": "name", "type": " ↵
  ↵ string }, "BinaryState": { "default_value": "0", "events_enabled": true, "name": " ↵
  ↵ state", "type": "Boolean" }}
```

Sample requests write command (note that `_upnp_device_profile` is a variable):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
  ↵ + '/state_variables/', auth=auth, headers=headers, json={ 'FriendlyName': { ' ↵
  ↵ default_value': '', 'events_enabled': True, 'name': 'name', 'type': 'string ↵
  ↵ }, 'BinaryState': { 'default_value': '0', 'events_enabled': True, 'name': ' ↵
  ↵ state', 'type': 'Boolean' }})
```

[Browse more samples](#)

10.21.1 State variable binding

object	upnp/profiles/S/state_variables/S/
Properties of a state variable binding	

The value is subject to the following constraints: index of the value matches `^[a-zA-Z][a-zA-Z_0-9]*$`

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

name	Outlet property name
type	Variable type
default_value	Default variable name
events_enabled	Events

Sample CLI read command (note that `upnp_device_profile` and `state_variable_binding` are variables):

```
uom get "upnp/profiles/${upnp_device_profile}/state_variables/${ ↵
  ↵ state_variable_binding}"
```

⇒

```
{ "default_value": "", "events_enabled": true, "name": "name", "type": "string" }
```

Sample requests read command (note that `_upnp_device_profile` and `_state_variable_binding` are variables):

```
print(requests.get('http://192.168.0.100/restapi/upnp/profiles/'+ ↵
    ↵ _upnp_device_profile+'/state_variables/'+_state_variable_binding+'/',auth= ↵
    ↵ auth,headers=headers).json())
```

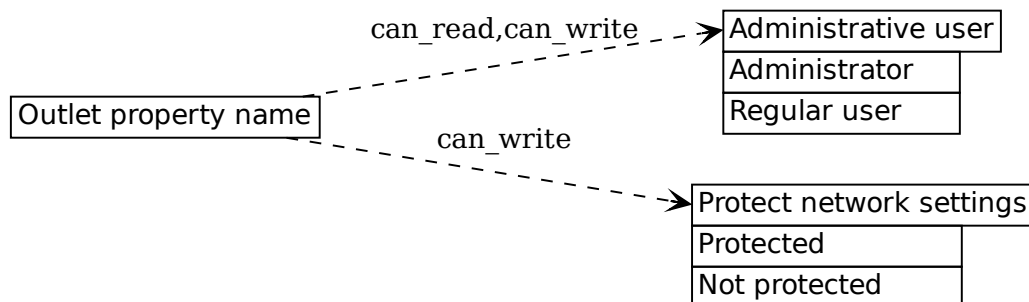
⇒

```
{'default_value': '0', 'events_enabled': True, 'name': 'state', 'type': 'Boolean' ↵
    ↵ '}'
```

[Browse more samples](#)

string	upnp/profiles/S/state_variables/S/name/
The outlet property to which the variable is bound	

10.21.1.1 Outlet property name



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample JS request write command (note that `_upnp_device_profile` and `_state_variable_binding` are variables):

```
request.put({url:"upnp/profiles/"+_upnp_device_profile+"/state_variables/"+ ↵
    ↵ _state_variable_binding+"/name/",body:"name"});
```

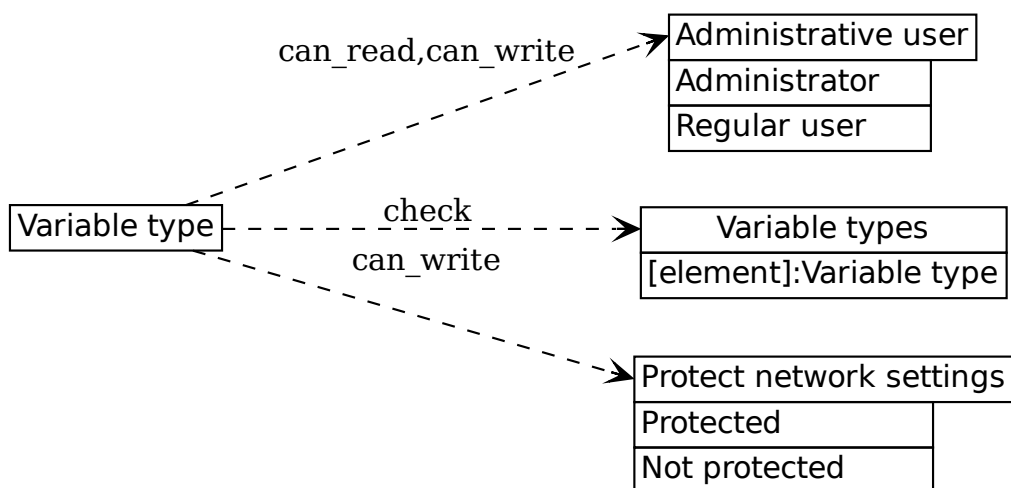
Sample curl write command (note that `:upnp_device_profile` and `:state_variable_binding` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
    ↵ json" -H "Accept: application/json" --data-binary "\"name\"" "http ↵
    ↵ ://192.168.0.100/restapi/upnp/profiles/:upnp_device_profile/state_variables ↵
    ↵ /:state_variable_binding/name/"
```

[Browse more samples](#)

string	upnp/profiles/S/state_variables/S/type/
The type of the variable	

10.21.1.2 Variable type



The value is subject to the following constraints: [variable types\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample uom library write command (note that `_upnp_device_profile` and `_state_variable_binding` are variables):

```
uom.upnp.profiles[_upnp_device_profile].state_variables[_state_variable_binding].  
↔ type="string"
```

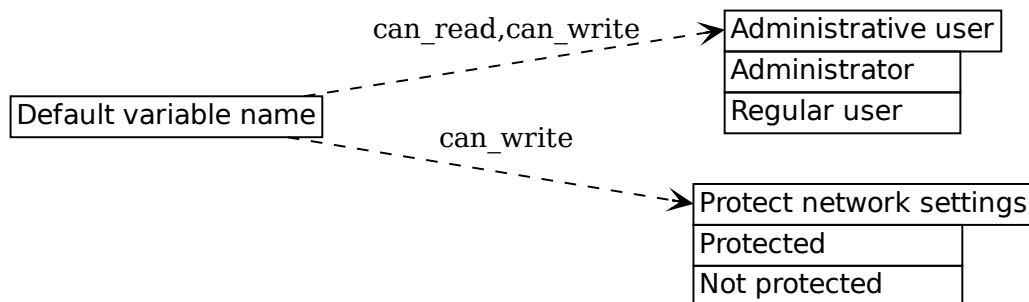
Sample JS request write command (note that `_upnp_device_profile` and `_state_variable_binding` are variables):

```
request.put({url:"upnp/profiles/"+_upnp_device_profile+"/state_variables/"+  
↔ _state_variable_binding+"/type/",body:"Boolean"});
```

[Browse more samples](#)

string	upnp/profiles/S/state_variables/S/default_value/
The string-encoded default value of the state variable	

10.21.1.3 Default variable name



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample JS request read command (note that `_upnp_device_profile` and `_state_variable_binding` are variables):

```
request.get({url:"upnp/profiles/"+_upnp_device_profile+"/state_variables/"+
    ↪ _state_variable_binding+"/default_value/"},function(error,response,body) {
    ↪ console.log(body) });
```

⇒

" "

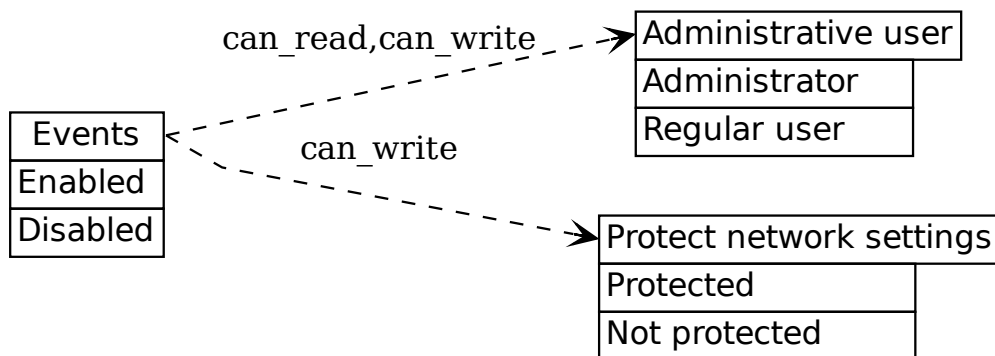
Sample JS request write command (note that `_upnp_device_profile` and `_state_variable_binding` are variables):

```
request.put({url:"upnp/profiles/"+_upnp_device_profile+"/state_variables/"+
    ↪ _state_variable_binding+"/default_value/",body:"0"});
```

[Browse more samples](#)

sum (boolean)	upnp/profiles/S/state_variables/S/events_enabled/
Send events on property change	

10.21.1.4 Events



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `curl` read command (note that `:upnp_device_profile` and `:state_variable_binding` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/upnp/profiles/:upnp_device_profile/state_variables/: ↵
↵ state_variable_binding/events_enabled/"
```

⇒

true

Sample `requests` write command (note that `_upnp_device_profile` and `_state_variable_↵ binding` are variables):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
    ↵ +'/state_variables/'+_state_variable_binding+'/events_enabled/', auth=auth, ↵
    ↵ headers=headers, json=True)
```

[Browse more samples](#)

10.22 Arguments: Argument

object	upnp/profiles/S/actions/S/arguments/N/
Action input or output argument properties	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

name	Argument name
type	Argument type
is_output	Output/return value flag
state_id	Related state variable identifier, if any

Sample JS request write command (note that `_upnp_device_profile`, `_action` and `_argument_index` are variables):

```
request.put({url:"upnp/profiles/"+_upnp_device_profile+"/actions/"+_action+"/ ↵
    ↵ arguments/"+_argument_index.toString()+"/", body:{"is_output":false, " ↵
    ↵ state_id":"FriendlyName", "name":"FriendlyName", "type":"string"}});
```

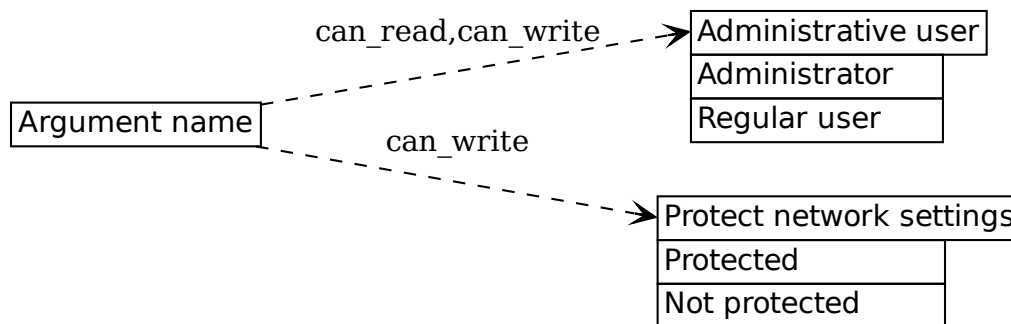
Sample requests write command (note that `_upnp_device_profile`, `_action` and `_argument_index` are variables):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
    ↵ +'/actions/'+_action+'/arguments/'+str(_argument_index)+'/', auth=auth, ↵
    ↵ headers=headers, json={'is_output': False, 'state_id': 'BinaryState', 'name ↵
    ↵ ': 'BinaryState', 'type': 'Boolean'})
```

[Browse more samples](#)

10.22.1 Argument name

string	upnp/profiles/S/actions/S/arguments/N/name/
The name of the argument as seen by clients	



The value is subject to the following constraints: the value matches `^[a-zA-Z_][a-zA-Z_0-9]*$`

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample CLI write command (note that `upnp_device_profile`, `action` and `argument_index` are variables):

```
uom set "upnp/profiles/${upnp_device_profile}/actions/${action}/arguments/${↵
↵ argument_index}/name" "\"FriendlyName\""
```

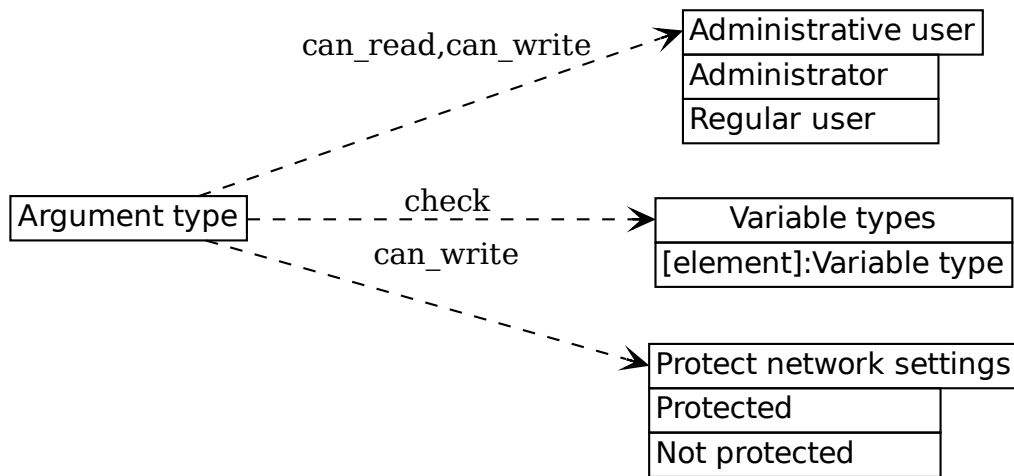
Sample curl write command (note that `:upnp_device_profile`, `:action` and `:argument_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/↵
↵ json" -H "Accept: application/json" --data-binary "\"FriendlyName\"" "http↵
↵ ://192.168.0.100/restapi/upnp/profiles/:upnp_device_profile/actions/:action↵
↵ /arguments/:argument_index/name/"
```

[Browse more samples](#)

10.22.2 Argument type

string	upnp/profiles/S/actions/S/arguments/N/type/
The type of the argument	



The value is subject to the following constraints: [variable types\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample uom library write command (note that `_upnp_device_profile`, `_action` and `_argument_index` are variables):

```
uom.upnp.profiles[_upnp_device_profile].actions[_action].arguments[↵
↵ _argument_index].type="string"
```

Sample uom library read command (note that `_upnp_device_profile`, `_action` and `_argument_index` are variables):

```
print(uom.dump(uom.upnp.profiles[_upnp_device_profile].actions[_action].arguments ↵
↵ [_argument_index].type))
```

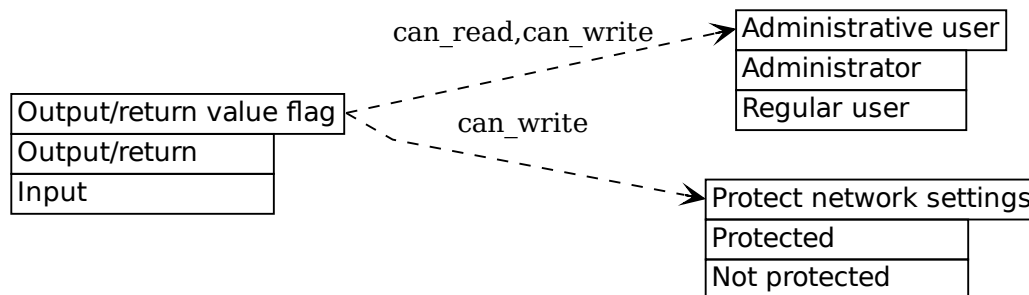
⇒

"Boolean"

[Browse more samples](#)

10.22.3 Output/return value flag

sum (boolean)	upnp/profiles/S/actions/S/arguments/N/is_output/
Flag indicating that the argument is output/return instead of input	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Output/return	The argument is output, and also the return value if it's the first output argument
constant false	Input	The argument is input

Sample `curl` read command (note that `:upnp_device_profile`, `:action` and `:argument_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/upnp/profiles/:upnp_device_profile/actions/:action/arguments/: ↵
↵ argument_index/is_output/"
```

⇒

false

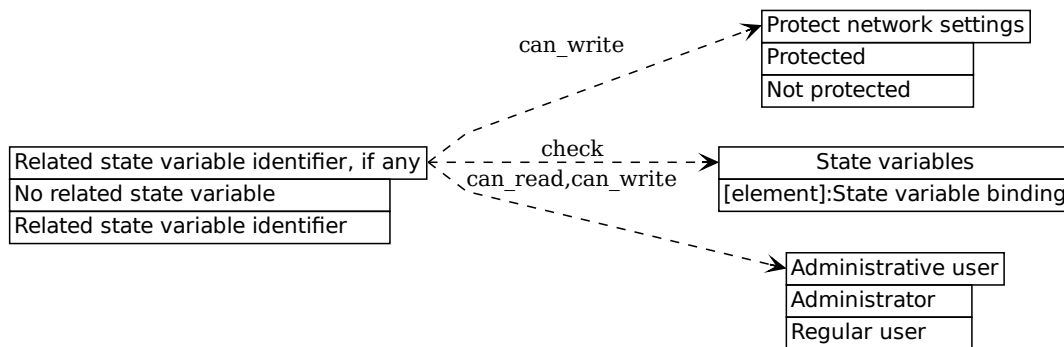
Sample `curl` write command (note that `:upnp_device_profile`, `:action` and `:argument_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "false" "http ↵
↵ ://192.168.0.100/restapi/upnp/profiles/:upnp_device_profile/actions/:action ↵
↵ /arguments/:argument_index/is_output/"
```

[Browse more samples](#)

10.22.4 Related state variable identifier, if any

sum (optional string)	upnp/profiles/S/actions/S/arguments/N/state_id/
The identifier of the state variable to which the argument is related, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	No related state variable	The argument isn't related to a state variable	
string	Related state variable identifier	The identifier of the state variable to which the argument is related	state variables[the value]

Sample requests write command (note that `_upnp_device_profile`, `_action` and `_argument_index` are variables):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
    ↵ + '/actions/'+_action+'/arguments/'+str(_argument_index)+'state_id/', auth= ↵
    ↵ auth, headers=headers, json='FriendlyName')
```

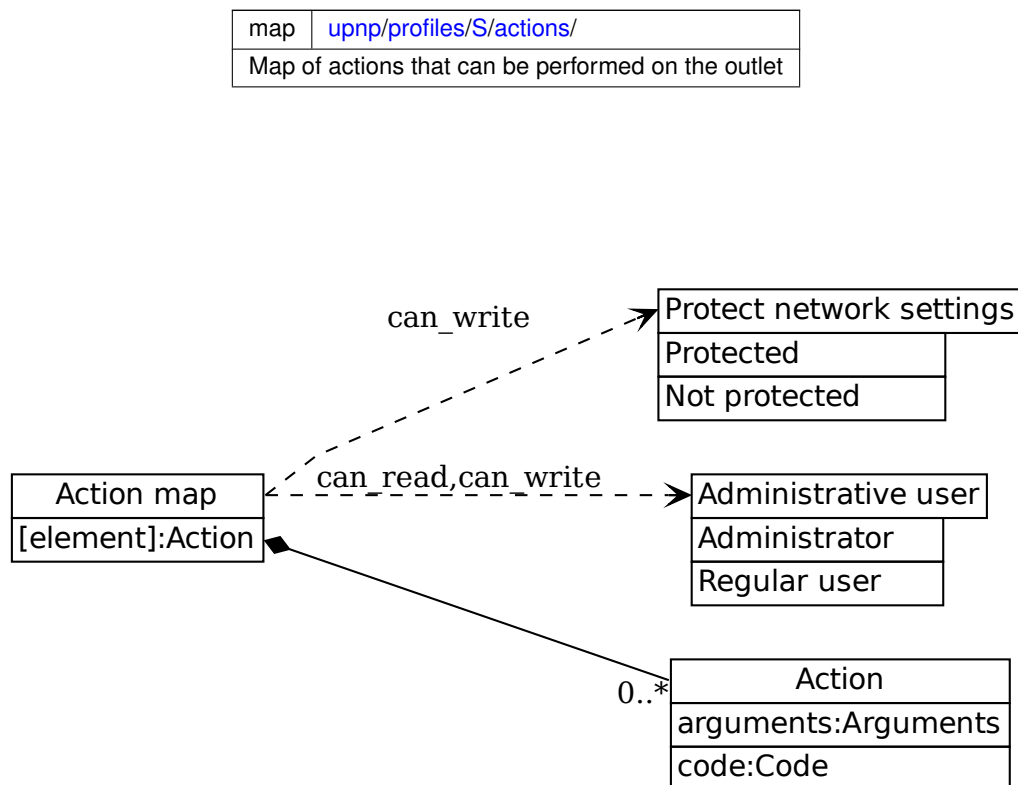
Sample CLI read command (note that `upnp_device_profile`, `action` and `argument_index` are variables):

```
uom get "upnp/profiles/${upnp_device_profile}/actions/${action}/arguments/${ ↵
    ↵ argument_index}/state_id"
```

⇒

`"FriendlyName"`[Browse more samples](#)

10.23 UPnP device profile: Action map



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This map is composite, i.e. is modified as a whole.

This map represents a value in persistent storage.

This map contains [Action](#) elements.

Sample `requests write command` (note that `_upnp_device_profile` is a variable):

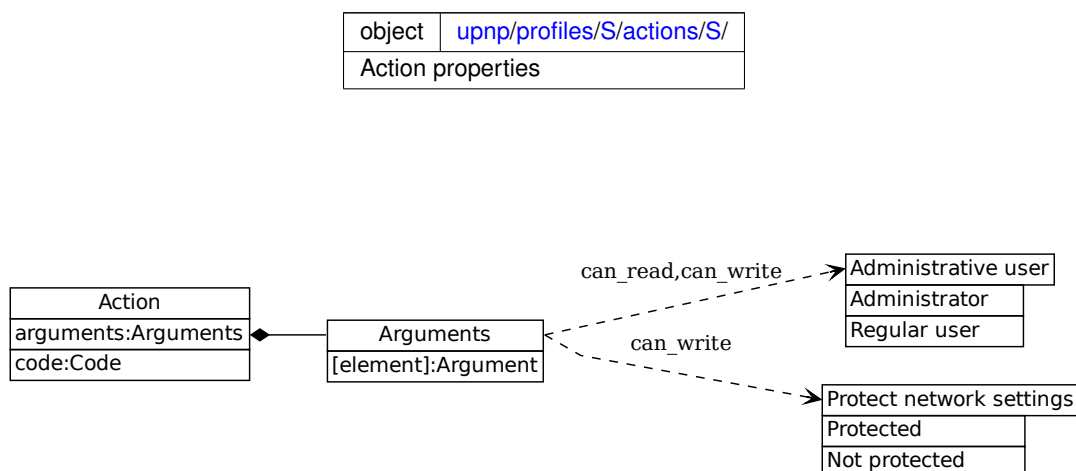
```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile
    ↪ +'/actions/',auth=auth,headers=headers,json={'GetFriendlyName': {'code': '
    ↪ function(outlet) return outlet.name end', 'arguments': [{'is_output': True,
    ↪ 'state_id': 'FriendlyName', 'name': 'FriendlyName', 'type': 'string'}]}, '
    ↪ GetBinaryState': {'code': 'function(outlet) return outlet.state end', '
    ↪ arguments': [{'is_output': True, 'state_id': 'BinaryState', 'name': '
    ↪ BinaryState', 'type': 'Boolean'}]}, 'SetBinaryState': {'code': 'function(
    ↪ outlet,value) outlet.state=value end', 'arguments': [{'is_output': False,
    ↪ state_id': 'BinaryState', 'name': 'BinaryState', 'type': 'Boolean'}]}, '
    ↪ SetFriendlyName': {'code': 'function(outlet,value) outlet.name=val end', '
    ↪ arguments': [{'is_output': False, 'state_id': 'FriendlyName', 'name': '
    ↪ FriendlyName', 'type': 'string'}]}])
```

Sample CLI action creation command (note that `upnp_device_profile` is a variable):

```
uom insert "upnp/profiles/${upnp_device_profile}/actions/SetFriendlyName" "{\
    ↪ code\": \"function(outlet,value) outlet.name=val end\", \"arguments\": [{\
    ↪ is_output\": false, \"state_id\": \"FriendlyName\", \"name\": \"FriendlyName
    ↪ \", \"type\": \"string\"}]}"
```

[Browse more samples](#)

10.23.1 Action



The value is subject to the following constraints: index of the value matches `^[a-zA-Z][a-zA-Z_0-9]*$`

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

arguments	Arguments
code	Code

Sample uom library write command (note that `_upnp_device_profile` and `_action` are variables):

```
uom.upnp.profiles[_upnp_device_profile].actions[_action]={arguments={{is_output=
    ↪ false,name="BinaryState",state_id="BinaryState",type="Boolean"}},code="
    ↪ function(outlet,value) outlet.state=value end"}
```

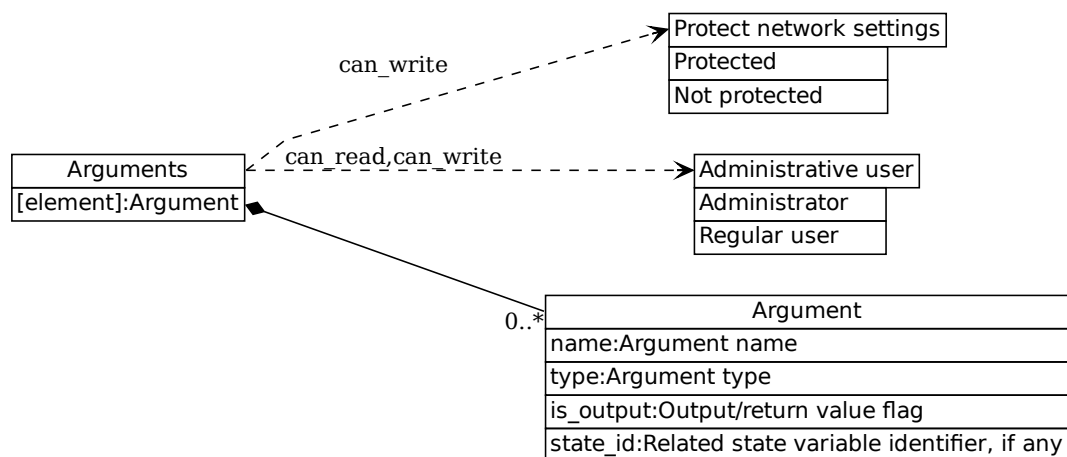
Sample CLI write command (note that `upnp_device_profile` and `action` are variables):

```
uom set "upnp/profiles/${upnp_device_profile}/actions/${action}" "{ \"code\": \"  
  ↪ function(outlet) return outlet.state end\", \"arguments\": [{ \"is_output\":  
  ↪ true, \"state_id\": \"BinaryState\", \"name\": \"BinaryState\", \"type\": \"  
  ↪ Boolean\" } ] }"
```

[Browse more samples](#)

array	upnp/profiles/S/actions/S/arguments/
Action input and output arguments	

10.23.1.1 Arguments



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array is a part of a composite value which is modified as a whole.

This array represents a value in persistent storage.

This array contains [Argument](#) elements.

Sample uom library read command (note that `_upnp_device_profile` and `_action` are variables):

```
print (uom.dump (uom.upnp.profiles[_upnp_device_profile].actions[_action].arguments  
  ↪ ))
```

⇒

```
{{is_output=true,name="BinaryState",state_id="BinaryState",type="Boolean"}}
```

Sample `curl` argument creation command (note that `:upnp_device_profile` and `:action` are URL template arguments):

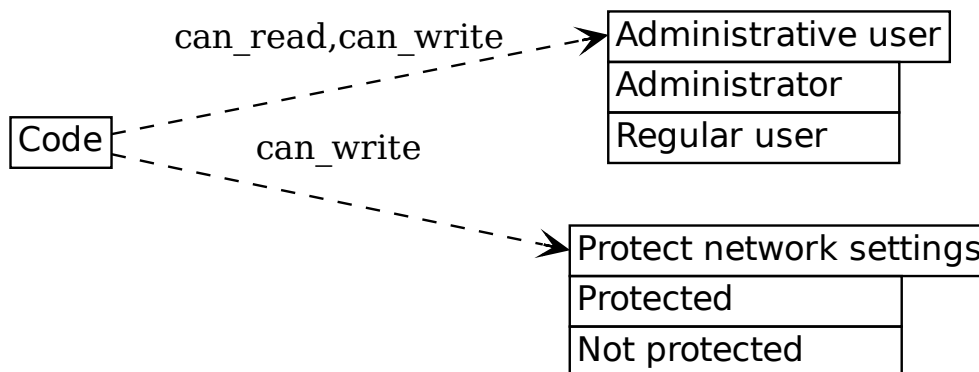
```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
  ↵ "Accept: application/json" --data-binary '{"is_output":false,"state_id ↵
  ↵ ":"BinaryState","name":"BinaryState","type":"Boolean"}' "http ↵
  ↵ ://192.168.0.100/restapi/upnp/profiles/:upnp_device_profile/actions/:action ↵
  ↵ /arguments/"
```

[Browse more samples](#)

See also [Arguments: Argument](#)

string	upnp/profiles/S/actions/S/code/
Code of Lua function to perform the action	

10.23.1.2 Code



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string is a part of a composite value which is modified as a whole.

This string represents a value in persistent storage.

Sample CLI read command (note that `upnp_device_profile` and `action` are variables):

```
uom get "upnp/profiles/${upnp_device_profile}/actions/${action}/code"
```

⇒

```
"function(outlet,value) outlet.state=value end"
```

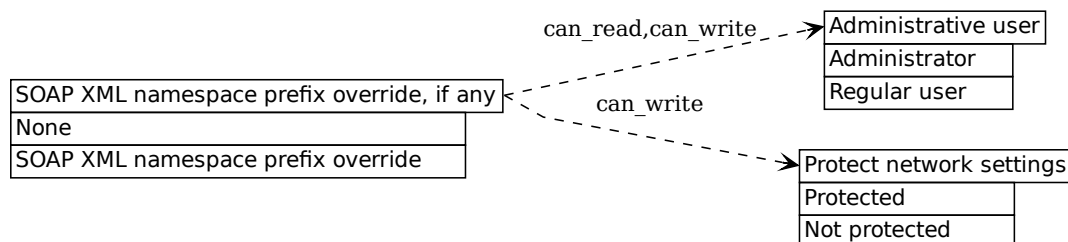
Sample curl write command (note that :upnp_device_profile and :action are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"function(outlet) ↵
↵ return outlet.name end\"" "http://192.168.0.100/restapi/upnp/profiles/: ↵
↵ upnp_device_profile/actions/:action/code/"
```

[Browse more samples](#)

10.24 UPnP device profile: SOAP XML namespace prefix override, if any

sum (optional string)	upnp/profiles/S/soap_xmlns_prefix_override/
SOAP XML namespace prefix to use on encoding instead of the default one (for compatibility), if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	Use the default SOAP XML namespace prefix ('soap11')
string	SOAP XML namespace prefix override	SOAP XML namespace prefix to use on encoding instead of the default one (for compatibility)
		the value matches <code>^([A-Za-z_][A-Za-z0-9_-]? [A-Za-z_][A-Za-z0-9_-]{2,} [xX][A-LN-Za-ln-z0-9_-][A-Za-z0-9_-]{1,} [xX][mM][A-KM-Za-km-z0-9_-][A-Za-z0-9_-]*)\$</code>

Sample `uom` library read command (note that `_upnp_device_profile` is a variable):

```
print(uom.dump(uom.upnp.profiles[_upnp_device_profile].soap_xmlns_prefix_override ↵
↵ ))
```

⇒

"Va2iW"

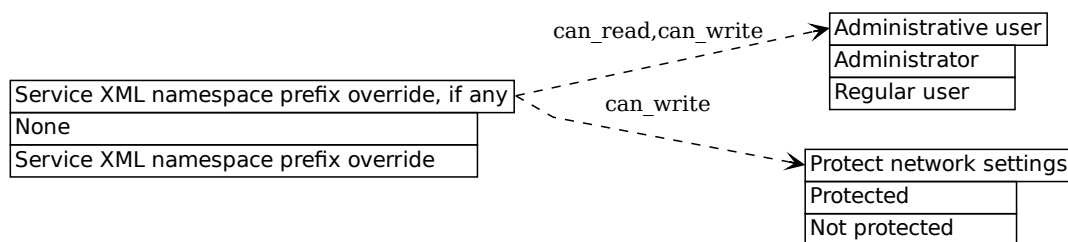
Sample `requests` write command (note that `_upnp_device_profile` is a variable):

```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
↵ +'/soap_xmlns_prefix_override/', auth=auth, headers=headers, json='x-rk')
```

[Browse more samples](#)

10.25 UPnP device profile: Service XML namespace prefix override, if any

sum (optional string)	upnp/profiles/S/service_xmlns_prefix_override/
Service XML namespace prefix to use on encoding instead of the default one (for compatibility), if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	Use the default service XML namespace prefix ('svc')
string	Service XML namespace prefix override	Service XML namespace prefix to use on encoding instead of the default one (for compatibility)
		the value matches $^([A-Za-z_][A-Za-z0-9_-]? [A-WYZa-wyz_][A-Za-z0-9_-]{2,} [xX][A-LN-Za-ln-z0-9_-][A-Za-z0-9_-]{1,} [xX][mM][A-KM-Za-km-z0-9_-][A-Za-z0-9_-]*)$$

Sample requests read command (note that `_upnp_device_profile` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/upnp/profiles/' +
    ↪ _upnp_device_profile + '/service_xmlns_prefix_override/', auth=auth, headers=
    ↪ headers).json())
```

⇒

None

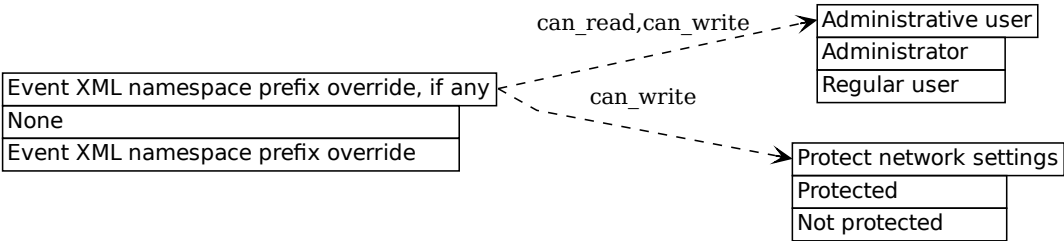
Sample curl write command (note that `:upnp_device_profile` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
    ↪ json" -H "Accept: application/json" --data-binary "\"xmkvwJurhlM\" \"http
    ↪ ://192.168.0.100/restapi/upnp/profiles/:upnp_device_profile/
    ↪ service_xmlns_prefix_override/"
```

[Browse more samples](#)

10.26 UPnP device profile: Event XML namespace prefix override, if any

sum (optional string)	upnp/profiles/S/event_xmlns_prefix_override/
Event XML namespace prefix to use on encoding instead of the default one (for compatibility), if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	Use the default event XML namespace prefix ('event')
string	Event XML namespace prefix override	Event XML namespace prefix to use on encoding instead of the default one (for compatibility)
		the value matches <code>^([A-Za-z_][A-Za-z0-9_-]? [A-WYZa-wyz_][A-Za-z0-9_-]{2,} [xX][A-LN-Za-ln-0-9_-][A-Za-z0-9_-]{1,} [xX][mM][A-KM-Za-km-z0-9_-][A-Za-z0-9_-]*)\$</code> DLI LPC9 Object Model Reference: 20230514T194846Z

Sample requests write command (note that `_upnp_device_profile` is a variable):

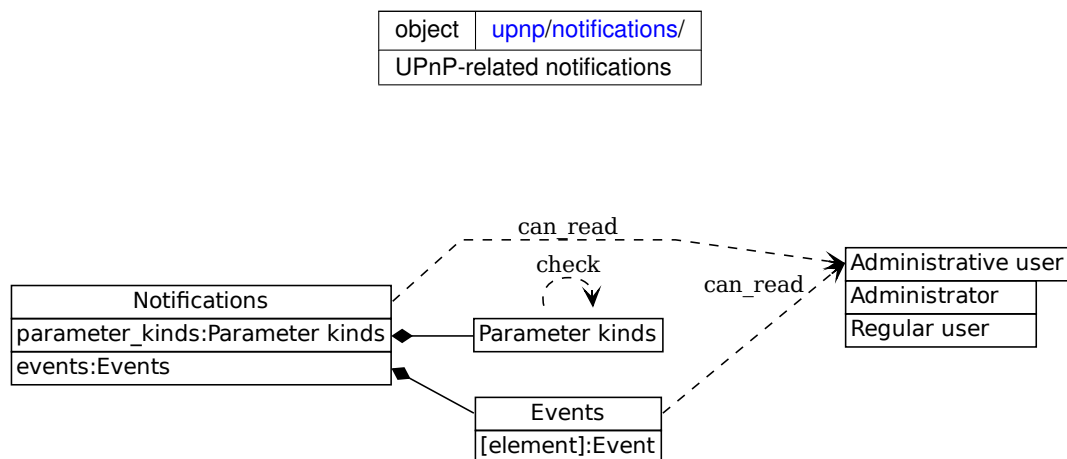
```
requests.put('http://192.168.0.100/restapi/upnp/profiles/'+_upnp_device_profile ↵
↵ '+/event_xmlns_prefix_override/', auth=auth, headers=headers, json=None)
```

Sample CLI write command (note that `upnp_device_profile` is a variable):

```
uom set "upnp/profiles/${upnp_device_profile}/event_xmlns_prefix_override" "null"
```

[Browse more samples](#)

10.27 Notifications



Retrieving the value is denied if not [administrative user](#)

This object does not support direct modification.

This object contains the following items:

parameter_kinds	Parameter kinds
events	Events

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/upnp/notifications/', auth=auth, ↵
↵ headers=headers).json())
```

⇒

```
{'events': {'dli.upnp.sample_event': {'parameters': [{'id': 'sample_parameter', ' ↵
↵ has_fixed_value': False, 'fixed_value': None}], 'message_template': [' ↵
↵ sample event']}}, 'parameter_kinds': {}}
```

Sample uom library read command:

```
print(uom.dump(uom.upnp.notifications))
```

⇒

```
{events=[{"dli.upnp.sample_event"}={message_template={"sample event"},parameters ↵
  ↵ ={{fixed_value=null,has_fixed_value=false,id="sample_parameter"}}}}, ↵
  ↵ parameter_kinds={}}
```

[Browse more samples](#)

10.27.1 Parameter kinds

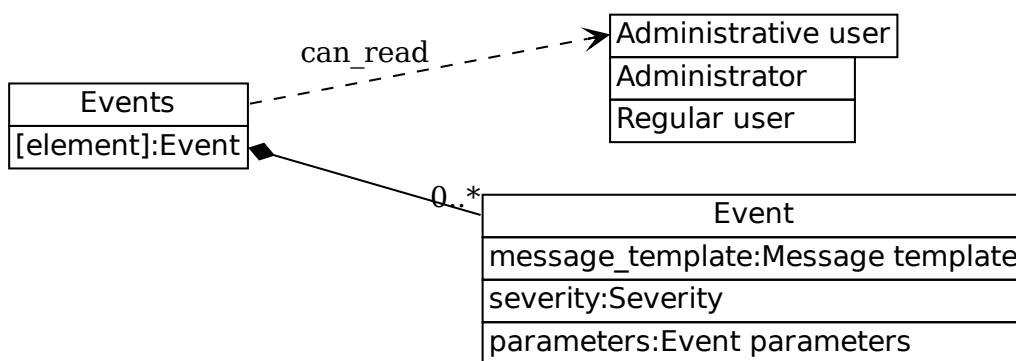
object	upnp/notifications/parameter_kinds/
Kinds of event parameters	

This object does not correspond to an actual resource.

This object is empty.

10.27.2 Events

map	upnp/notifications/events/
Event templates	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Event](#) elements.

Creating elements in this collection is not supported.

Sample `requests read` command:

```
print(requests.get('http://192.168.0.100/restapi/upnp/notifications/events/', auth ←
    ↪ =auth, headers=headers).json())
```

⇒

```
{'dli.upnp.sample_event': {'parameters': [{'id': 'sample_parameter', ' ←
    ↪ has_fixed_value': False, 'fixed_value': None}], 'message_template': [' ←
    ↪ sample event']}}
```

Sample JS request read command:

```
request.get({url:"upnp/notifications/events/"},function(error,response,body) { ←
    ↪ console.log(body)});
```

⇒

```
{"dli.upnp.sample_event":{"parameters":[{"id":"sample_parameter","has_fixed_value ←
    ↪ ":false,"fixed_value":null}], "message_template":["sample event"]}}
```

[Browse more samples](#)

See also [Events: Event](#)

10.28 Event parameters: Event parameter

object	upnp/notifications/events/S/parameters/N/
Properties of a parameter associated with the event	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

id	Identifier
has_fixed_value	Fixed value flag
fixed_value	Fixed value

Sample CLI write command (note that event and event_parameter_index are variables):

```
uom set "upnp/notifications/events/${event}/parameters/${event_parameter_index}" ←
    ↪ "{ \"id\": \"sample_parameter\", \"has_fixed_value\": false, \"fixed_value\": ←
    ↪ null }"
```

Sample curl read command (note that :event and :event_parameter_index are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ←
    ↪ restapi/upnp/notifications/events/:event/parameters/:event_parameter_index ←
    ↪ /"
```

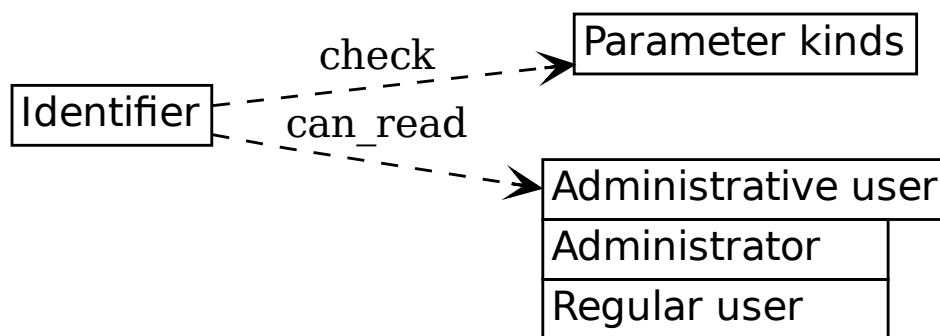
⇒

```
{"id":"sample_parameter","has_fixed_value":false,"fixed_value":null}
```

[Browse more samples](#)

10.28.1 Identifier

string	upnp/notifications/events/S/parameters/N/id/
Parameter identifier	



The value is subject to the following constraints: [parameter kinds](#)[the value]

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "upnp/notifications/events/${event}/parameters/${event_parameter_index}/ ↵
↵ id"
```

⇒

```
"sample_parameter"
```

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.upnp.notifications.events[_event].parameters[ ↵
↵ _event_parameter_index].id))
```

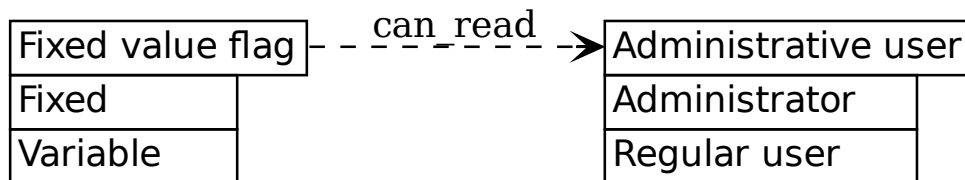
⇒

```
"sample_parameter"
```

[Browse more samples](#)

10.28.2 Fixed value flag

sum (boolean)	upnp/notifications/events/S/parameters/N/has_fixed_value/
Flag indicating that the parameter's value for this event is fixed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Fixed	The value is fixed
constant false	Variable	The value is variable

Sample requests read command (note that `_event` and `_event_parameter_index` are variables):

```
print (requests.get ('http://192.168.0.100/restapi/upnp/notifications/events/' + ↵
    ↵ _event + '/parameters/' + str(_event_parameter_index) + '/has_fixed_value/', auth= ↵
    ↵ auth, headers=headers).json())
```

⇒

False

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print (uom.dump (uom.upnp.notifications.events[_event].parameters[ ↵
    ↵ _event_parameter_index].has_fixed_value))
```

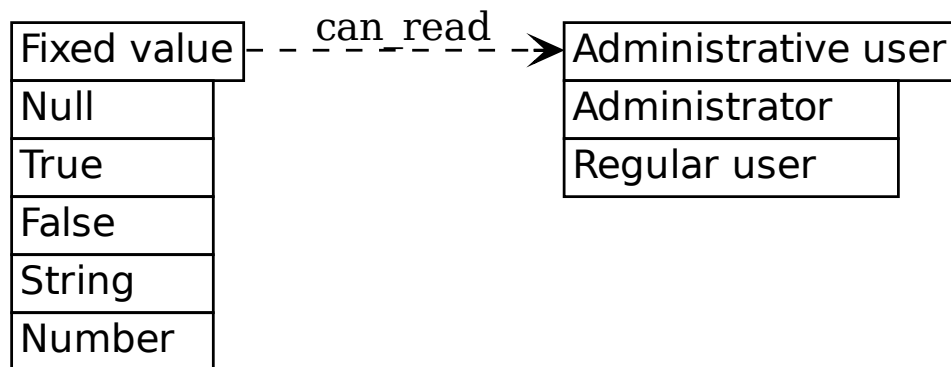
⇒

false

[Browse more samples](#)

10.28.3 Fixed value

sum (variant)	upnp/notifications/events/S/parameters/N/fixed_value/
Fixed parameter value for this particular event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"upnp/notifications/events/"+_event+"/parameters/"+
  ↳ _event_parameter_index.toString()+"/fixed_value/"},function(error,response,
  ↳ body) {console.log(body)});
```

⇒

null

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

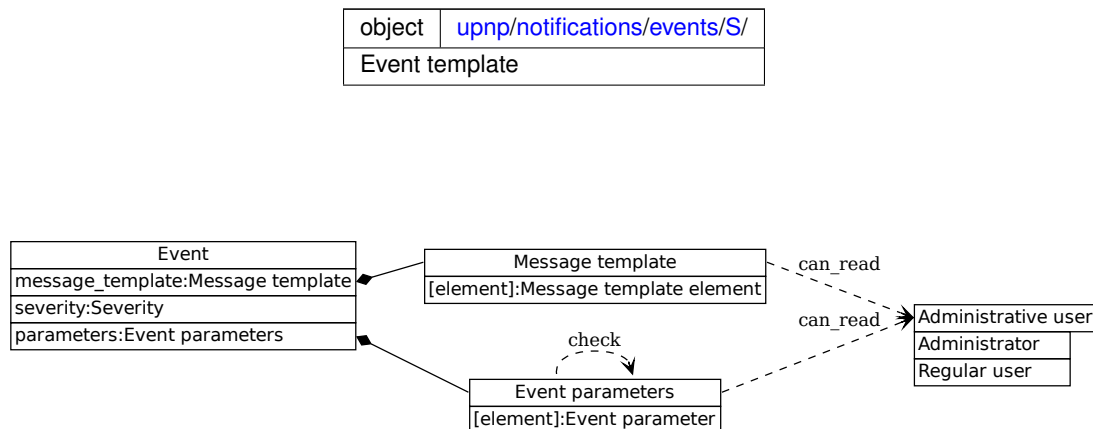
```
uom get "upnp/notifications/events/${event}/parameters/${event_parameter_index}/
  ↳ fixed_value"
```

⇒

null

[Browse more samples](#)

10.29 Events: Event



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

message_template	Message template
severity	Severity
parameters	Event parameters

Sample CLI write command (note that `event` is a variable):

```
uom set "upnp/notifications/events/${event}" "{\"parameters\": [{\"id\": \"↵
↵ sample_parameter\", \"has_fixed_value\": false, \"fixed_value\": null}], \"↵
↵ message_template\": [\"sample event\"]}"
```

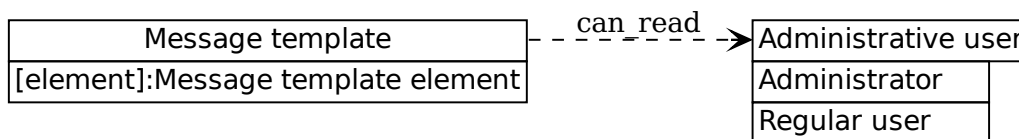
Sample curl write command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/↵
↵ json" -H "Accept: application/json" --data-binary "{\"parameters\": [{\"id↵
↵ \": \"sample_parameter\", \"has_fixed_value\": false, \"fixed_value\": null}], \"↵
↵ message_template\": [\"sample event\"]}" "http://192.168.0.100/restapi/upnp/↵
↵ notifications/events/:event/"
```

[Browse more samples](#)

10.29.1 Message template

array	upnp/notifications/events/S/message_template/
Template for human-readable message generation	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Message template element](#) elements.

Creating elements in this collection is not supported.

Sample `requests` read command (note that `_event` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/upnp/notifications/events/' +   
↪ _event + '/message_template/', auth=auth, headers=headers).json())
```

⇒

```
['sample event']
```

Sample `uom` library read command (note that `_event` is a variable):

```
print (uom.dump (uom.upnp.notifications.events[_event].message_template))
```

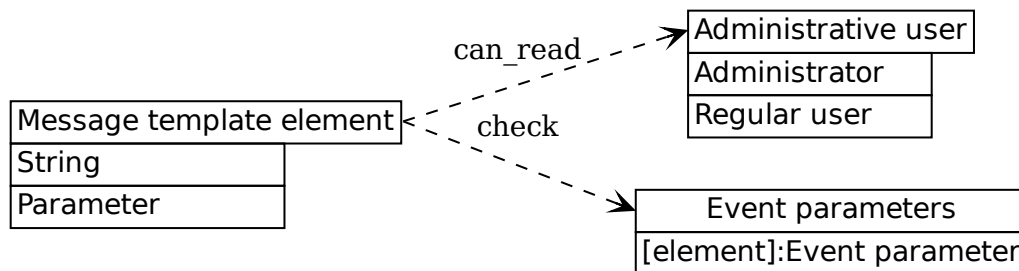
⇒

```
{"sample event"}
```

[Browse more samples](#)

sum (variant)	upnp/notifications/events/S/message_template/N/
Element of human-readable message template	

10.29.1.1 Message template element



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

string	String	Fixed string	
number	Parameter	Index of message parameter to insert	event parameters[the value]

Sample JS request `read` command (note that `_event` and `_message_template_element_index` are variables):

```
request.get({url:"upnp/notifications/events/"+_event+"/message_template/"+
  ↳ _message_template_element_index.toString()+"/"},function(error,response,
  ↳ body) {console.log(body)});
```

⇒

```
"sample event"
```

Sample `requests` `read` command (note that `_event` and `_message_template_element_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/upnp/notifications/events/'+
  ↳ _event+"/message_template/"+str(_message_template_element_index)+'/',auth=
  ↳ auth,headers=headers).json())
```

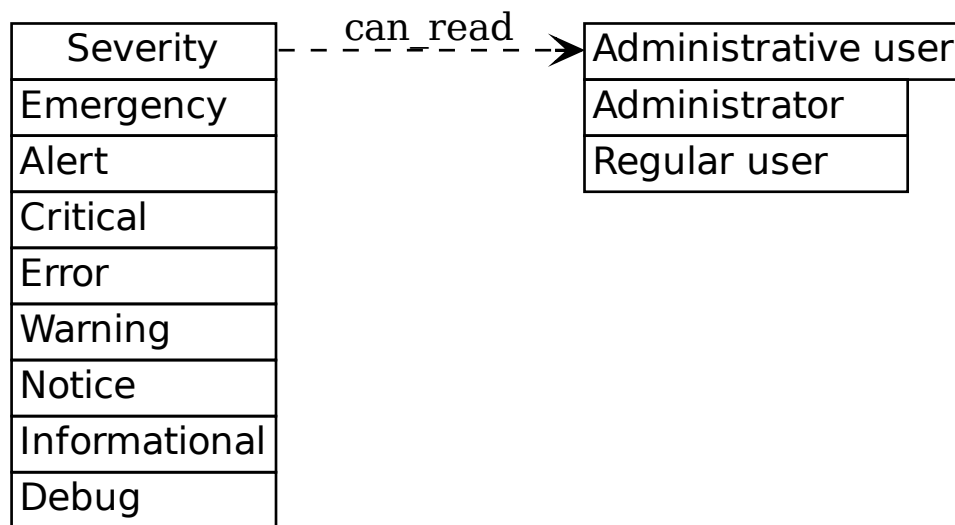
⇒

```
'sample event'
```

[Browse more samples](#)

10.29.2 Severity

sum (enumerated number)	upnp/notifications/events/S/severity/
Severity rating assigned to the event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant 1	Emergency	Treat the event as an emergency
constant 2	Alert	Treat the event as an alert
constant 3	Critical	Treat the event as critical
constant 4	Error	Treat the event as an error
constant 5	Warning	Treat the event as a warning
constant 6	Notice	Treat the event as a notice
constant 7	Informational	Treat the event as informational
constant 8	Debug	Treat the event as debugging-related

Sample uom library read command (note that `_event` is a variable):

```
print (uom.dump(uom.upnp.notifications.events[_event].severity))
```

⇒

```
{ }
```

Sample CLI read command (note that `event` is a variable):

```
uom get "upnp/notifications/events/${event}/severity"
```

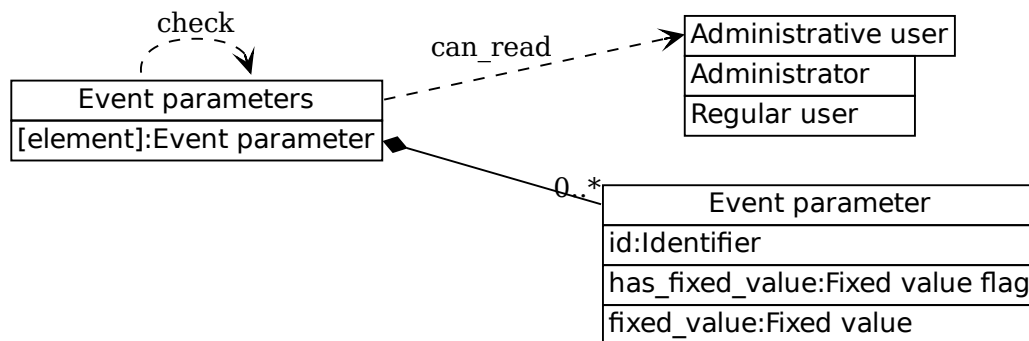
⇒

```
[ ]
```

[Browse more samples](#)

10.29.3 Event parameters

array	upnp/notifications/events/S/parameters/
Additional data associated with the event	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Event parameter](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"upnp/notifications/events/"+_event+"/parameters/"},function(↵
    ↵ error,response,body) {console.log(body)});
```

⇒

```
[{"id":"sample_parameter","has_fixed_value":false,"fixed_value":null}]
```

Sample CLI read command (note that `event` is a variable):

```
uom get "upnp/notifications/events/${event}/parameters"
```

⇒

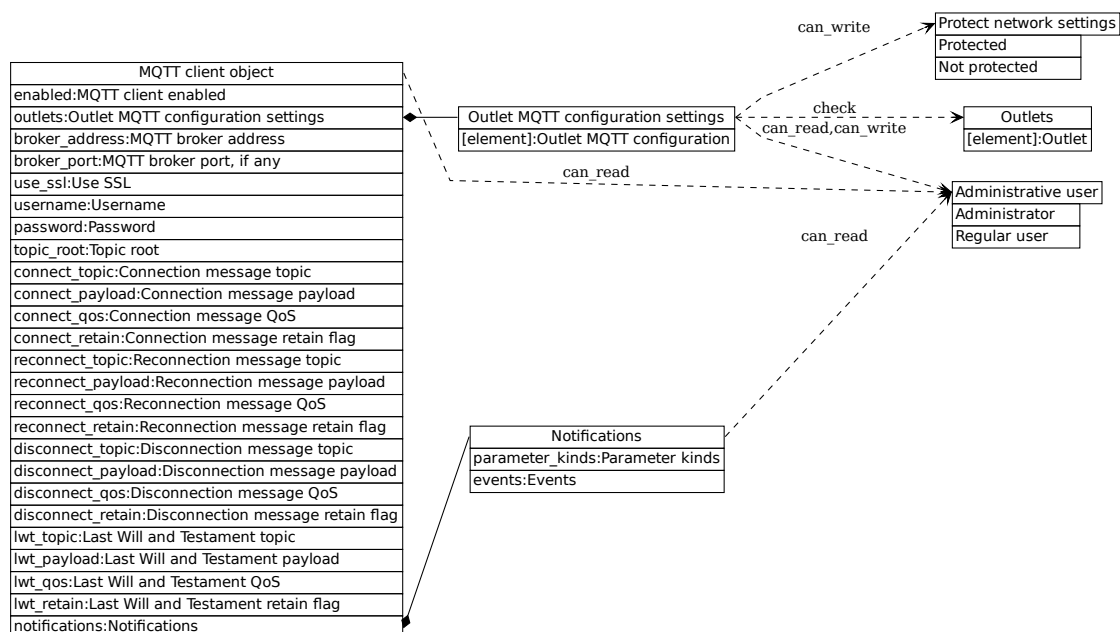
```
[{"id":"sample_parameter","has_fixed_value":false,"fixed_value":null}]
```

[Browse more samples](#)

See also [Event parameters: Event parameter](#)

11 MQTT client object

object	mqtt/
Object representing the MQTT client configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

enabled	MQTT client enabled
outlets	Outlet MQTT configuration settings
broker_address	MQTT broker address
broker_port	MQTT broker port, if any
use_ssl	Use SSL
username	Username
password	Password
topic_root	Topic root
connect_topic	Connection message topic
connect_payload	Connection message payload
connect_qos	Connection message QoS
connect_retain	Connection message retain flag
reconnect_topic	Reconnection message topic
reconnect_payload	Reconnection message payload
reconnect_qos	Reconnection message QoS
reconnect_retain	Reconnection message retain flag
disconnect_topic	Disconnection message topic
disconnect_payload	Disconnection message payload
disconnect_qos	Disconnection message QoS
disconnect_retain	Disconnection message retain flag
lwt_topic	Last Will and Testament topic

lwt_payload	Last Will and Testament payload
lwt_qos	Last Will and Testament QoS
lwt_retain	Last Will and Testament retain flag
notifications	Notifications

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/"
```

⇒

...

Sample `uom` library read command:

```
print(uom.dump(uom.mqtt))
```

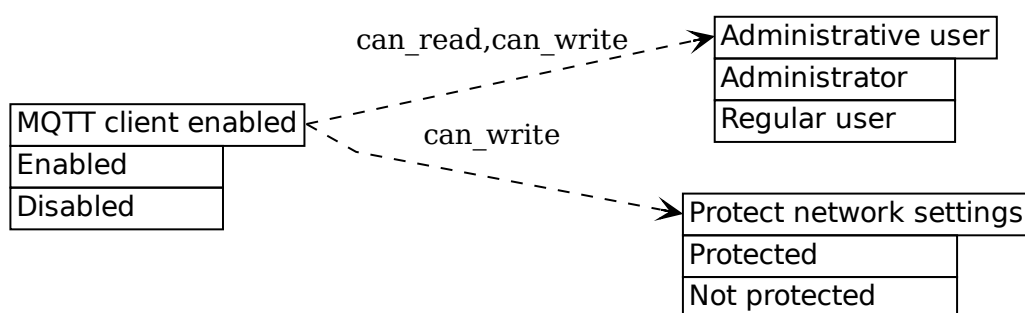
⇒

<...>

[Browse more samples](#)

11.1 MQTT client enabled

sum (boolean)	mqtt/enabled/
MQTT client enable status	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `requests` read command:

```
print (requests.get('http://192.168.0.100/restapi/mqtt/enabled/', auth=auth, headers ←  
    ↪ =headers).json())
```

⇒

True

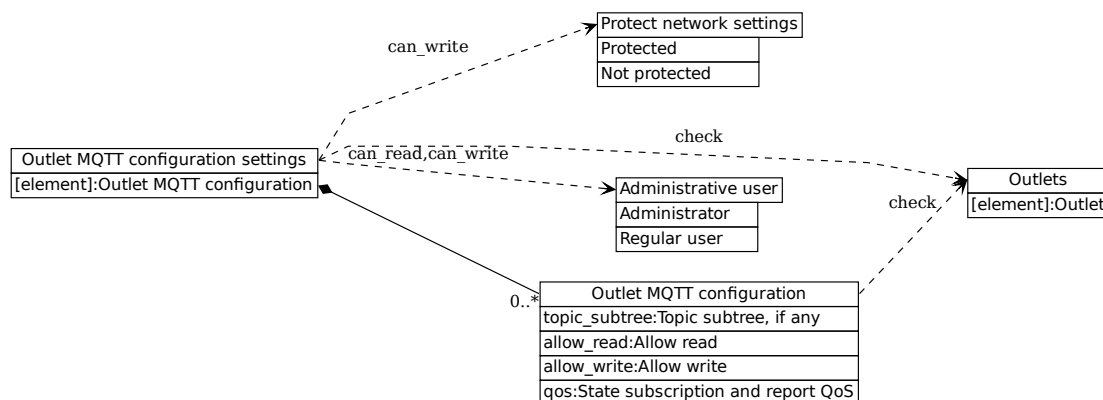
Sample `uom` library write command:

```
uom.mqtt.enabled=true
```

[Browse more samples](#)

11.2 Outlet MQTT configuration settings

array	mqtt/outlets/
Properties related to exposing outlets via MQTT	



The value is subject to the following constraints: length of [the value](#) is equal to length of [outlets](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

This array contains [Outlet MQTT configuration](#) elements.

Sample `curl` outlet MQTT configuration creation command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
↵ "Accept: application/json" --data-binary '{"allow_read":false," ↵
↵ topic_subtree\":"HWpE","qos":0,"allow_write":false}' "http ↵
↵ ://192.168.0.100/restapi/mqtt/outlets/"
```

Sample JS request read command:

```
request.get({url:"mqtt/outlets/"},function(error,response,body) {console.log(body ↵
↵ )});
```

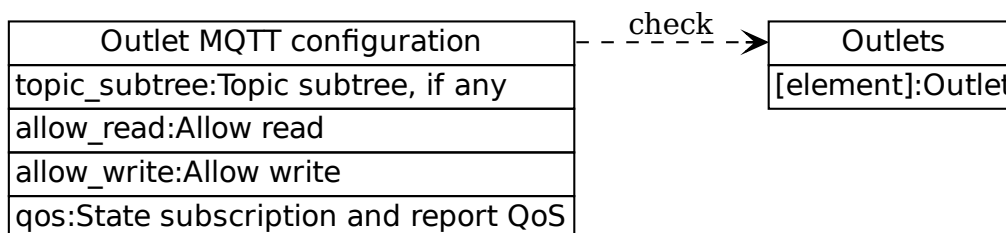
⇒

[Browse more samples](#)

See also [Outlet MQTT configuration settings: Outlet MQTT configuration](#)

11.3 Outlet MQTT configuration settings: Outlet MQTT configuration

object	mqtt/outlets/N/
Properties related to exposing the outlet via MQTT	



The value is subject to the following constraints: [outlets](#)[index of the value]

This object contains the following items:

topic_subtree	Topic subtree, if any
allow_read	Allow read
allow_write	Allow write
qos	State subscription and report QoS

Sample JS request read command (note that `_outlet_mqtt_configuration_index` is a variable):

```
request.get({url:"mqtt/outlets/"+_outlet_mqtt_configuration_index.toString() ↵
↵ +"/"},function(error,response,body) {console.log(body) });
```

⇒

```
{"allow_read":true,"topic_subtree":"cBosYU","qos":2,"allow_write":false}
```

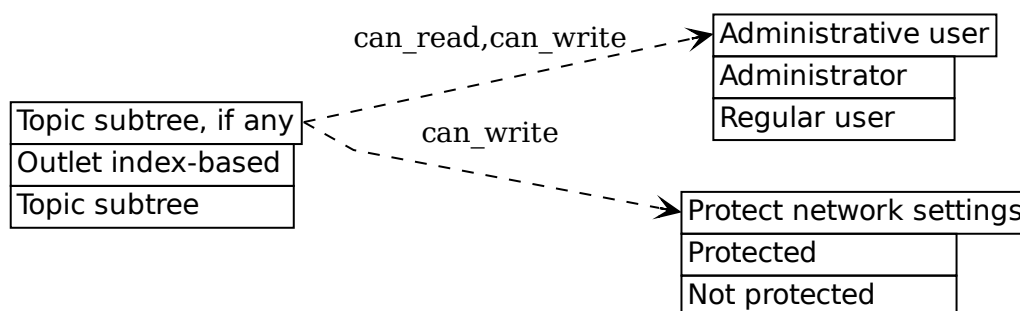
Sample JS request write command (note that `_outlet_mqtt_configuration_index` is a variable):

```
request.put({url:"mqtt/outlets/"+_outlet_mqtt_configuration_index.toString()+"/",  
  ↪ body:{ "allow_read":true,"topic_subtree":"34xa4Rh","qos":2,"allow_write":  
  ↪ true}});
```

[Browse more samples](#)

11.3.1 Topic subtree, if any

sum (optional string)	<code>mqtt/outlets/N/topic_subtree/</code>
MQTT topic subtree (relative to the topic root), if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Outlet index-based	Use 'outlets/' + the 0-based outlet index as topic subtree
string	Topic subtree	MQTT topic subtree (relative to the topic root)

Sample CLI read command (note that `outlet_mqtt_configuration_index` is a variable):

```
uom get "mqtt/outlets/${outlet_mqtt_configuration_index}/topic_subtree"
```

⇒

"xFNGA7T"

Sample JS request read command (note that `_outlet_mqtt_configuration_index` is a variable):

```
request.get({url:"mqtt/outlets/"+_outlet_mqtt_configuration_index.toString()+"/" +  
↪ topic_subtree/"},function(error,response,body) {console.log(body)});
```

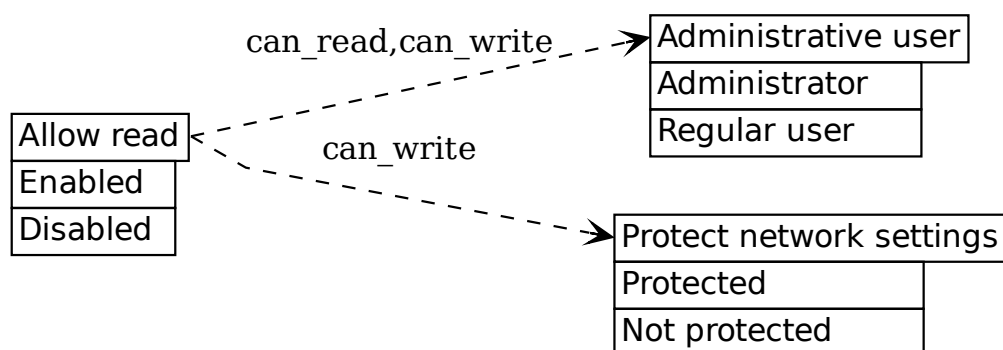
⇒

"oALF"

[Browse more samples](#)

11.3.2 Allow read

sum (boolean)	mqtt/outlets/N/allow_read/
Outlet state is broadcasted via MQTT	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `curl` read command (note that `:outlet_mqtt_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/outlets/:outlet_mqtt_configuration_index/allow_read/"
```

⇒

true

Sample `requests` read command (note that `_outlet_mqtt_configuration_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/mqtt/outlets/'+str( ↵
↵ _outlet_mqtt_configuration_index)+'/allow_read/', auth=auth, headers=headers) ↵
↵ .json())
```

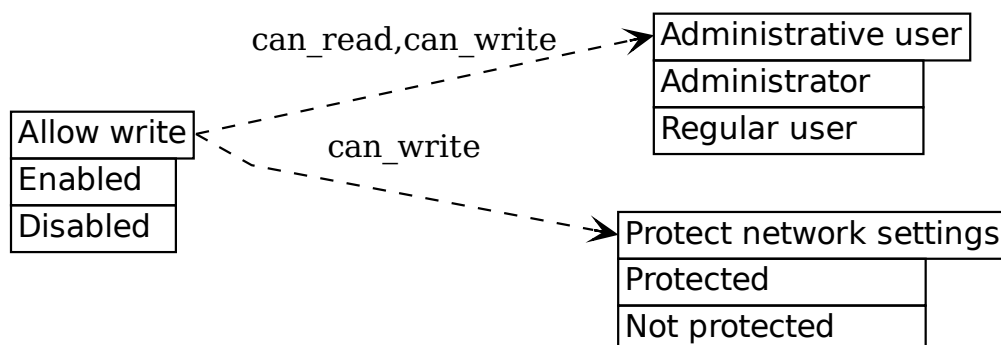
⇒

False

[Browse more samples](#)

11.3.3 Allow write

sum (boolean)	mqtt/outlets/N/allow_write/
Outlet state can be changed via MQTT	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample uom library read command (note that `_outlet_mqtt_configuration_index` is a variable):

```
print(uom.dump(uom.mqtt.outlets[_outlet_mqtt_configuration_index].allow_write))
```

⇒

```
true
```

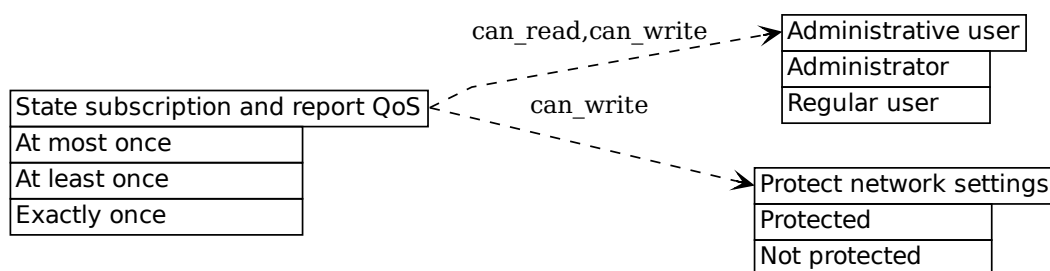
Sample curl write command (note that `:outlet_mqtt_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "true" "http ↵
↵ ://192.168.0.100/restapi/mqtt/outlets/:outlet_mqtt_configuration_index/ ↵
↵ allow_write/"
```

[Browse more samples](#)

11.3.4 State subscription and report QoS

sum (enumerated number)	mqtt/outlets/N/qos/
Quality of service when subscribing to and broadcasting outlet state	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant 0	At most once	Message should be delivered at most once
constant 1	At least once	Message should be delivered at least once
constant 2	Exactly once	Message should be delivered exactly once

Sample requests write command (note that `_outlet_mqtt_configuration_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/mqtt/outlets/'+str(
    ↪ _outlet_mqtt_configuration_index)+'qos/',auth=auth,headers=headers,json=1)
```

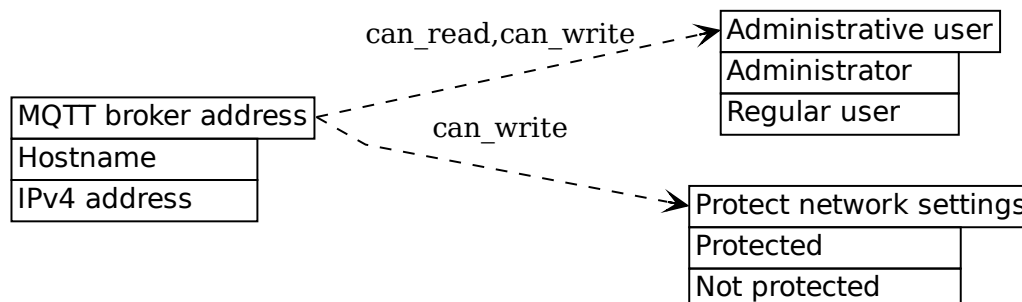
Sample CLI write command (note that `outlet_mqtt_configuration_index` is a variable):

```
uom set "mqtt/outlets/${outlet_mqtt_configuration_index}/qos" "2"
```

[Browse more samples](#)

11.4 MQTT broker address

sum (string)	mqtt/broker_address/
Host name or IPv4 address of the MQTT broker to connect to	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

string	Hostname	Hostname	the value matches <code>^(([a-zA-Z0-9] [a-zA-Z0-9][a-zA-Z0-9-]*[a-zA-Z0-9]).)*([A-Za-z]([A-Za-z0-9-]*[A-Za-z0-9])? [A-Za-z0-9-]*[A-Za-z]([A-Za-z0-9-]*[A-Za-z0-9])?)\$</code>
DLI LPC9 Object Model Reference: 20230514T194846Z			
string	IPv4 address	IPv4 address in dotted quad notation	the value matches <code>^(([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5]).){3}([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5])\$</code>

Sample uom library write command:

```
uom.mqtt.broker_address="8.227.74.3"
```

Sample requests read command:

```
print (requests.get ('http://192.168.0.100/restapi/mqtt/broker_address/', auth=auth, ↵
↵ headers=headers).json())
```

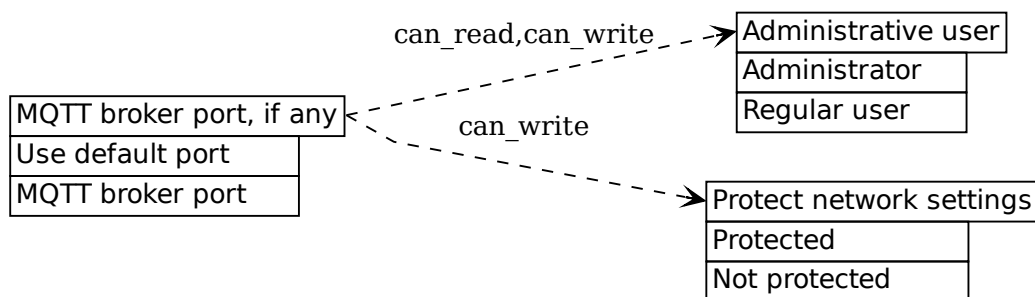
⇒

```
'HZ8Vj8.DfFYY.LaZXmm.wboor.bPxpI.example.com'
```

[Browse more samples](#)

11.5 MQTT broker port, if any

sum (optional number)	mqtt/broker_port/
Port of the MQTT broker to connect to, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Use default port	Connect to port 1883 when SSL is not used, port 8883 if SSL is used	
number	MQTT broker port	Port of the MQTT broker to connect to	all of the following is true: • the value is an integer • the value is greater than 0
DLI LPC9 Object Model Reference 2022-05-11 16:55:42			

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/broker_port/"
```

⇒

null

Sample `requests` read command:

```
print (requests.get('http://192.168.0.100/restapi/mqtt/broker_port/', auth=auth, ↵
↵ headers=headers).json())
```

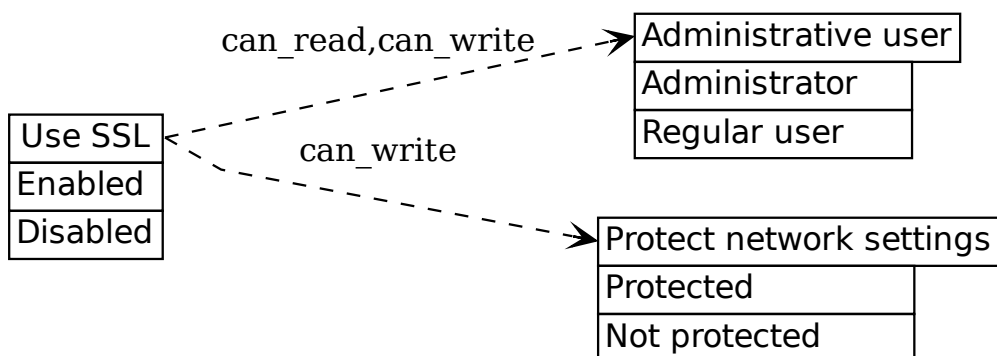
⇒

'57001'

[Browse more samples](#)

11.6 Use SSL

sum (boolean)	mqtt/use_ssl/
Use SSL when connecting to the MQTT broker	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample JS `request read` command:

```
request.get({url:"mqtt/use_ssl/"},function(error,response,body) {console.log(body ↵
↵ }));
```

⇒

true

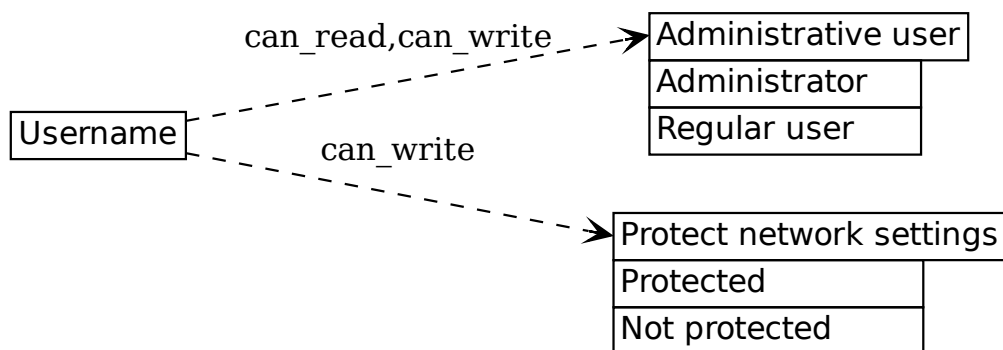
Sample JS `request write` command:

```
request.put({url:"mqtt/use_ssl/",body:true});
```

[Browse more samples](#)

11.7 Username

string	mqtt/username/
Username to use when connecting to the MQTT broker	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample JS `request read` command:

```
request.get({url:"mqtt/username/"},function(error,response,body) {console.log( ↵
  ↵ body) });
```

⇒

"userX5sR"

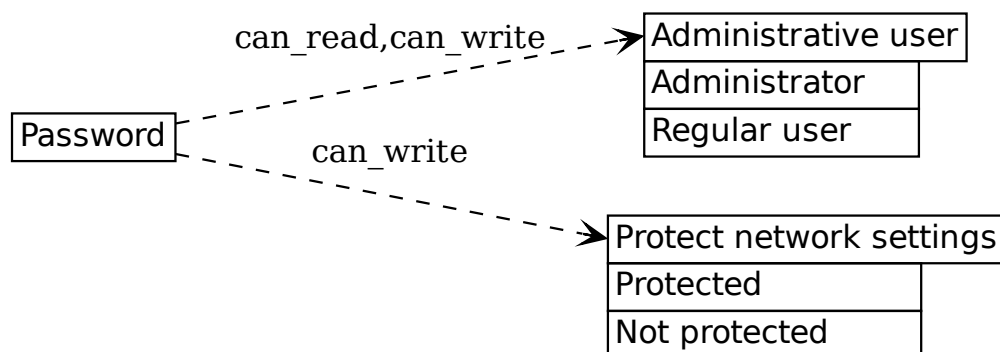
Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/mqtt/username/',auth=auth,headers= ↵
  ↵ headers,json='usermhXMk')
```

[Browse more samples](#)

11.8 Password

string	mqtt/password/
Password to use when connecting to the MQTT broker	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

This string should be displayed in a secure manner.

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/mqtt/password/',auth=auth, ↵
  ↵ headers=headers).json())
```

⇒

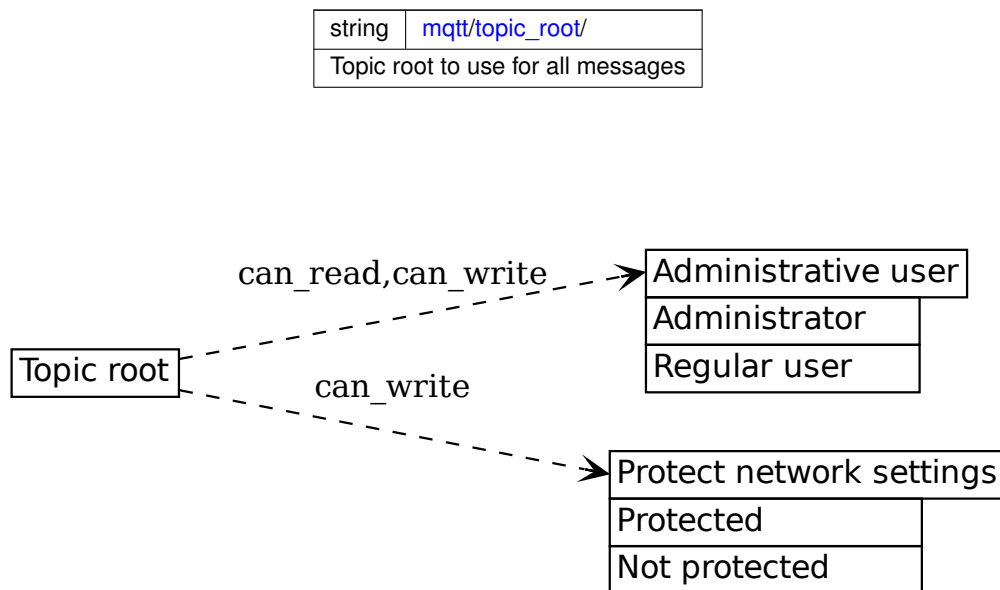
'7@2Uj@He!2'

Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"TihXxuiXTR\"" "http ↵
↵ ://192.168.0.100/restapi/mqtt/password/"
```

[Browse more samples](#)

11.9 Topic root

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/topic_root/"
```

⇒

"7hPZkiq1wB"

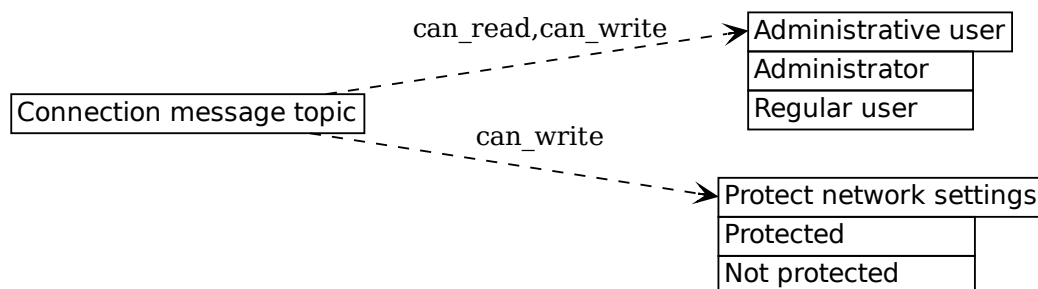
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"8gpIUVUcc\"" "http ↵
↵ ://192.168.0.100/restapi/mqtt/topic_root/"
```

[Browse more samples](#)

11.10 Connection message topic

string	mqtt/connect_topic/
Topic of the message to send on initial connection to broker (not relative to the topic root)	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample CLI read command:

```
uom get "mqtt/connect_topic"
```

⇒

```
"nWkK0IaOp8"
```

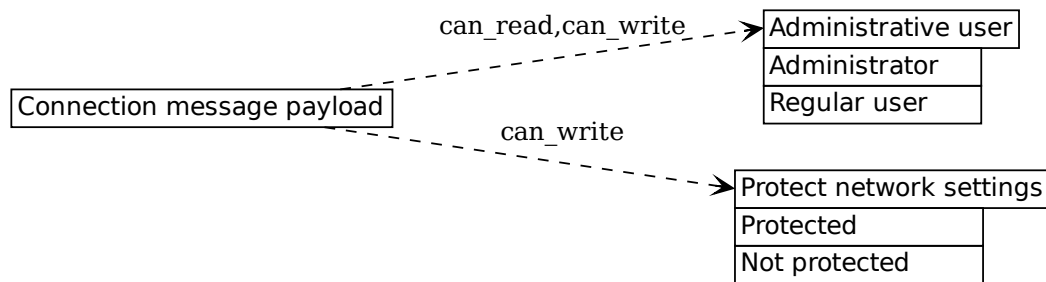
Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/mqtt/connect_topic/', auth=auth, headers ↵
↵ =headers, json='rvL5iluiBu')
```

[Browse more samples](#)

11.11 Connection message payload

string	mqtt/connect_payload/
Payload of the message to send on initial connection to broker	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample JS `request` read command:

```
request.get ({url: "mqtt/connect_payload/"}, function (error, response, body) {console.log (body) });
```

⇒

"7Zs1FC"

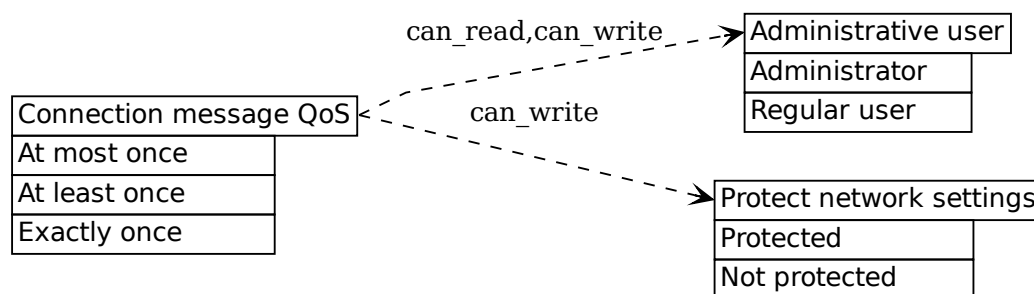
Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/json" -H "Accept: application/json" --data-binary "\"\" \"http" ://192.168.0.100/restapi/mqtt/connect_payload/"
```

[Browse more samples](#)

11.12 Connection message QoS

sum (enumerated number)	mqtt/connect_qos/
Quality of service for the message to send on initial connection to broker	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant 0	At most once	Message should be delivered at most once
constant 1	At least once	Message should be delivered at least once
constant 2	Exactly once	Message should be delivered exactly once

Sample CLI read command:

```
uom get "mqtt/connect_qos"
```

⇒

0

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/connect_qos/"
```

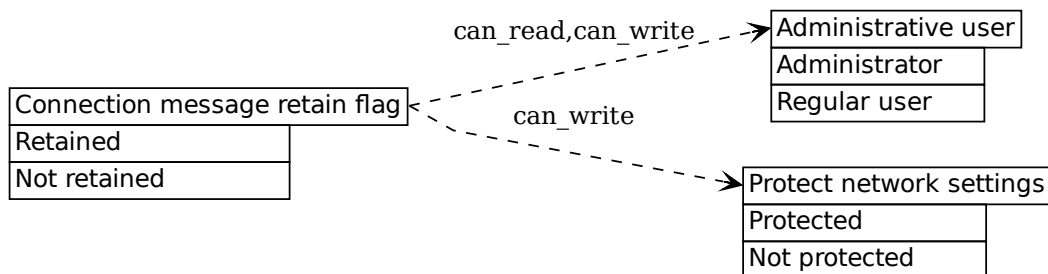
⇒

2

[Browse more samples](#)

11.13 Connection message retain flag

sum (boolean)	mqtt/connect_retain/
Flag indicating whether the message to be sent on initial connection to broker should be retained	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Retained	The latest message payload should be retained on the broker and sent on subscription
constant false	Not retained	Messages should not be retained on the broker

Sample JS request read command:

```
request.get ({url: "mqtt/connect_retain/"}, function (error, response, body) {console. ↵
  ↵ log (body) });
```

⇒

true

Sample CLI read command:

```
uom get "mqtt/connect_retain"
```

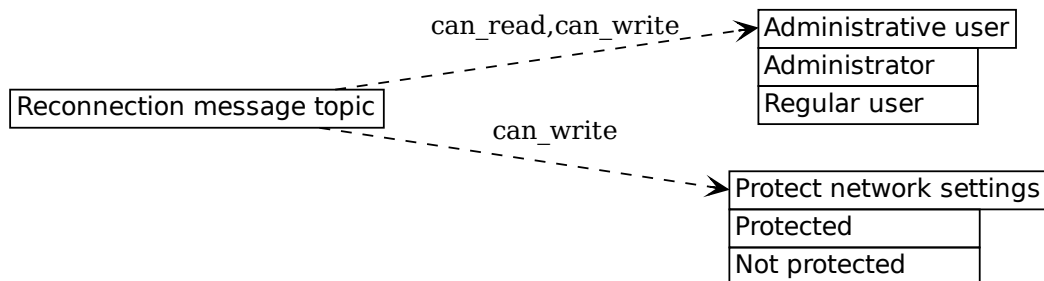
⇒

false

[Browse more samples](#)

11.14 Reconnection message topic

string	mqtt/reconnect_topic/
Topic of the message to send on reconnection to broker (not relative to the topic root)	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/mqtt/reconnect_topic/', auth=auth, ↵
↳ headers=headers, json='vdDJy')
```

Sample JS request read command:

```
request.get({url:"mqtt/reconnect_topic/"}, function(error, response, body) {console. ↵
↳ log(body)});
```

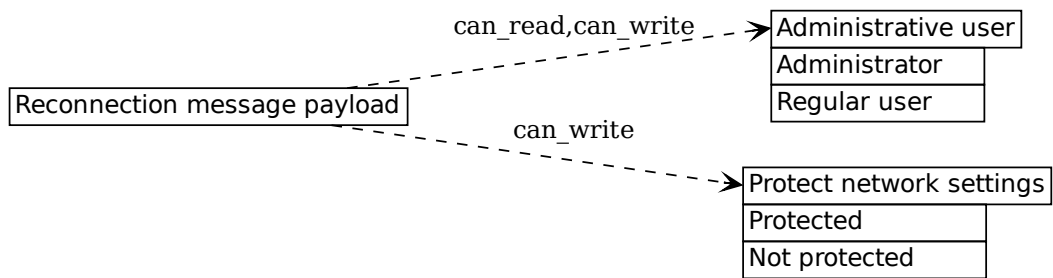
⇒

"AfCmyA7p1"

[Browse more samples](#)

11.15 Reconnection message payload

string	mqtt/reconnect_payload/
Payload of the message to send on reconnection to broker	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample JS request write command:

```
request.put({url:"mqtt/reconnect_payload/",body:""});
```

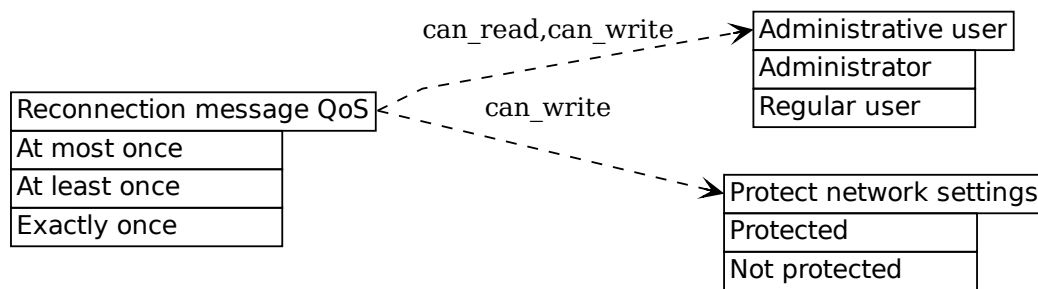
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"NpviV\" \"http ↵
↵ ://192.168.0.100/restapi/mqtt/reconnect_payload/"
```

[Browse more samples](#)

11.16 Reconnection message QoS

sum (enumerated number)	mqtt/reconnect_qos/
Quality of service for the message to send on reconnection to broker	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant 0	At most once	Message should be delivered at most once
constant 1	At least once	Message should be delivered at least once
constant 2	Exactly once	Message should be delivered exactly once

Sample JS `request read` command:

```
request.get({url:"mqtt/reconnect_qos/"},function(error,response,body) {console.log(body)});
```

⇒

0

Sample CLI `read` command:

```
uom get "mqtt/reconnect_qos"
```

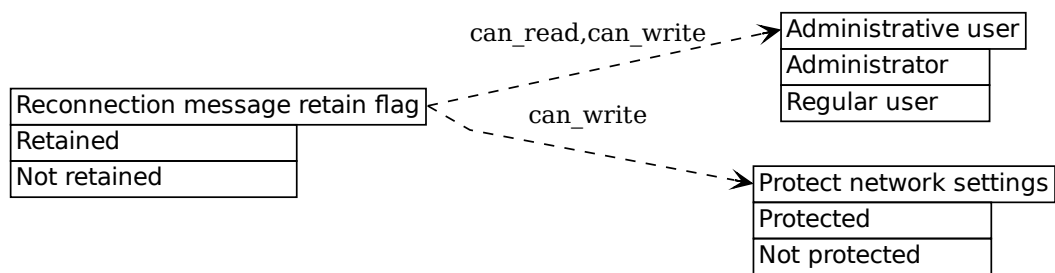
⇒

1

[Browse more samples](#)

11.17 Reconnection message retain flag

sum (boolean)	mqtt/reconnect_retain/
Flag indicating whether the message to be sent on reconnection to broker should be retained	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Retained	The latest message payload should be retained on the broker and sent on subscription
constant false	Not retained	Messages should not be retained on the broker

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/reconnect_retain/"
```

⇒

```
true
```

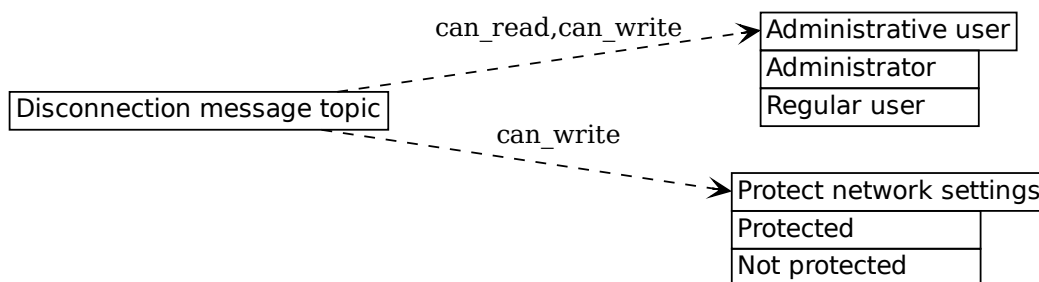
Sample `uom` library write command:

```
uom.mqtt.reconnect_retain=false
```

[Browse more samples](#)

11.18 Disconnection message topic

string	mqtt/disconnect_topic/
Topic of the message to send before disconnecting from broker (not relative to the topic root)	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"rllV\"" "http ↵
↵ ://192.168.0.100/restapi/mqtt/disconnect_topic/"
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/disconnect_topic/"
```

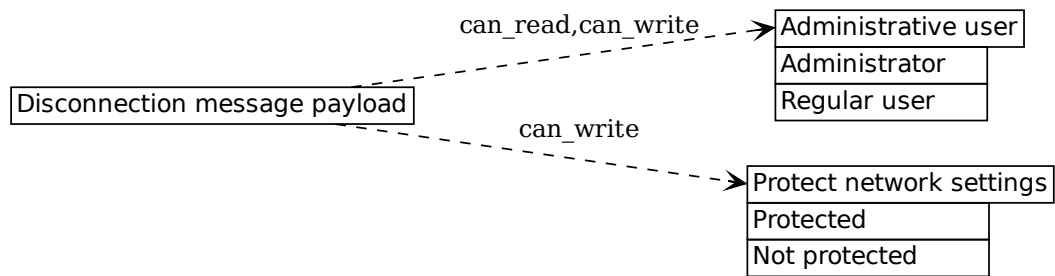
⇒

"r9JaSvoUP"

[Browse more samples](#)

11.19 Disconnection message payload

string	mqtt/disconnect_payload/
Payload of the message to send before disconnecting from broker	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/mqtt/disconnect_payload/', auth=auth, ↵
↵ headers=headers, json='W')
```

Sample `uom` library read command:

```
print(uom.dump(uom.mqtt.disconnect_payload))
```

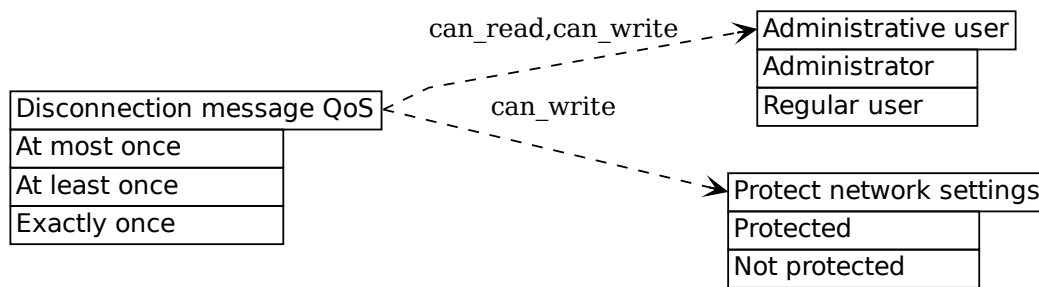
⇒

"pcmyJQ"

[Browse more samples](#)

11.20 Disconnection message QoS

sum (enumerated number)	mqtt/disconnect_qos/
Quality of service for the message to send before disconnecting from broker	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant 0	At most once	Message should be delivered at most once
constant 1	At least once	Message should be delivered at least once
constant 2	Exactly once	Message should be delivered exactly once

Sample JS request write command:

```
request.put ({url:"mqtt/disconnect_qos/",body:1});
```

Sample JS request read command:

```
request.get ({url:"mqtt/disconnect_qos/"},function(error,response,body) {console.log(body)});
```

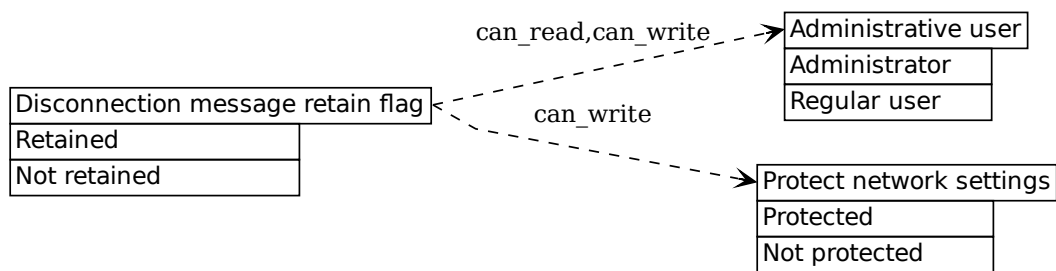
⇒

1

[Browse more samples](#)

11.21 Disconnection message retain flag

sum (boolean)	mqtt/disconnect_retain/
Flag indicating whether the message to be sent before disconnecting from broker should be retained	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Retained	The latest message payload should be retained on the broker and sent on subscription
constant false	Not retained	Messages should not be retained on the broker

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "true" "http ↵
↵ ://192.168.0.100/restapi/mqtt/disconnect_retain/"
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/disconnect_retain/"
```

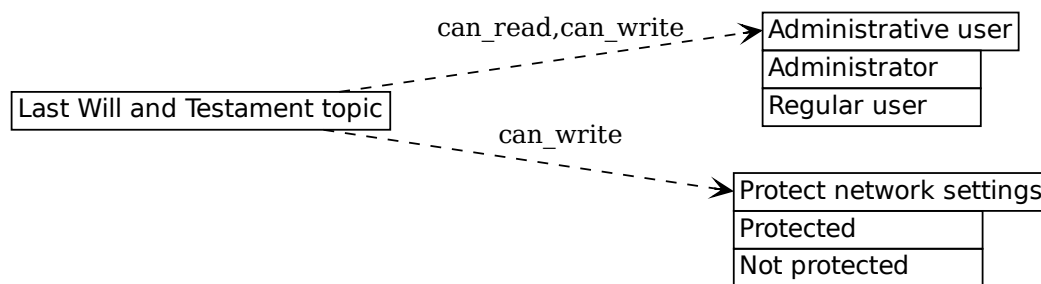
⇒

true

[Browse more samples](#)

11.22 Last Will and Testament topic

string	mqtt/lwt_topic/
Topic of the message for the broker to send if the unit goes offline unexpectedly (not relative to the topic root)	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"yLfm2oyuF\"" "http ↵
↵ ://192.168.0.100/restapi/mqtt/lwt_topic/"
```

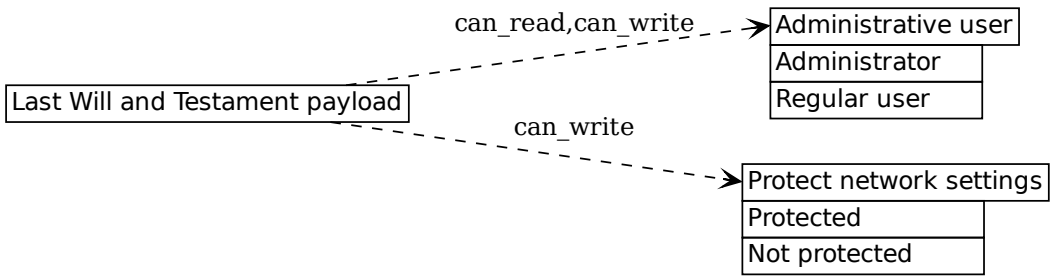
Sample JS request write command:

```
request.put({url:"mqtt/lwt_topic/",body:"GaEumGM"});
```

[Browse more samples](#)

11.23 Last Will and Testament payload

string	mqtt/lwt_payload/
Payload of the message for the broker to send if the unit goes offline unexpectedly	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This string represents a value in persistent storage.

Sample JS request read command:

```
request.get ({url: "mqtt/lwt_payload/"}, function (error, response, body) { console.log( ↵  
  ↵ body) });
```

⇒

"Jf7m"

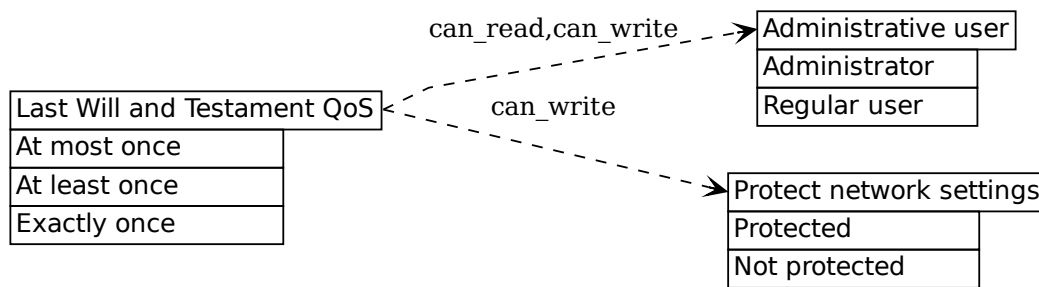
Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵  
  ↵ json" -H "Accept: application/json" --data-binary "\"f\"" "http ↵  
  ↵ ://192.168.0.100/restapi/mqtt/lwt_payload/"
```

[Browse more samples](#)

11.24 Last Will and Testament QoS

sum (enumerated number)	mqtt/lwt_qos/
Quality of service for the message for the broker to send if the unit goes offline unexpectedly	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant 0	At most once	Message should be delivered at most once
constant 1	At least once	Message should be delivered at least once
constant 2	Exactly once	Message should be delivered exactly once

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/mqtt/lwt_qos/', auth=auth, headers ↵
↵ =headers).json())
```

⇒

0

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/lwt_qos/"
```

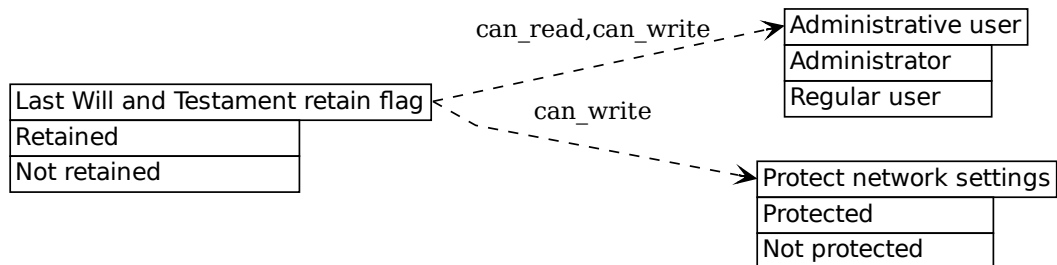
⇒

0

[Browse more samples](#)

11.25 Last Will and Testament retain flag

sum (boolean)	mqtt/lwt_retain/
Flag indicating whether the message to be sent if the unit goes offline unexpectedly should be retained	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Retained	The latest message payload should be retained on the broker and sent on subscription
constant false	Not retained	Messages should not be retained on the broker

Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/mqtt/lwt_retain/', auth=auth, headers=↔
↔ headers, json=True)
```

Sample `uom` library read command:

```
print(uom.dump(uom.mqtt.lwt_retain))
```

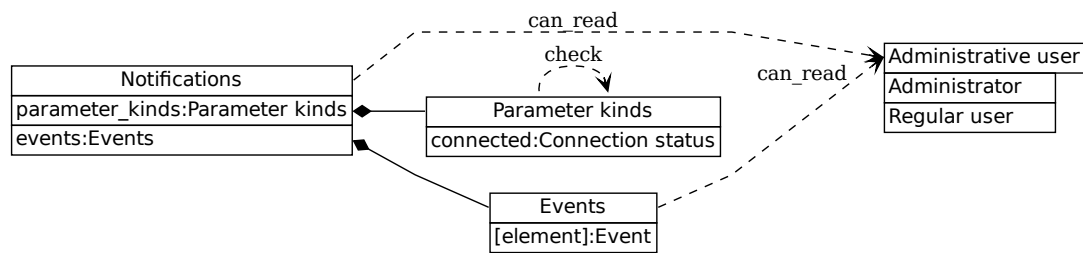
⇒

true

[Browse more samples](#)

11.26 Notifications

object	mqtt/notifications/
MQTT-related notifications	



Retrieving the value is denied if not [administrative user](#)

This object does not support direct modification.

This object contains the following items:

parameter_kinds	Parameter kinds
events	Events

Sample JS request read command:

```
request.get({url:"mqtt/notifications/"},function(error,response,body) {console.log(body)});
```

⇒

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/restapi/mqtt/notifications/"
```

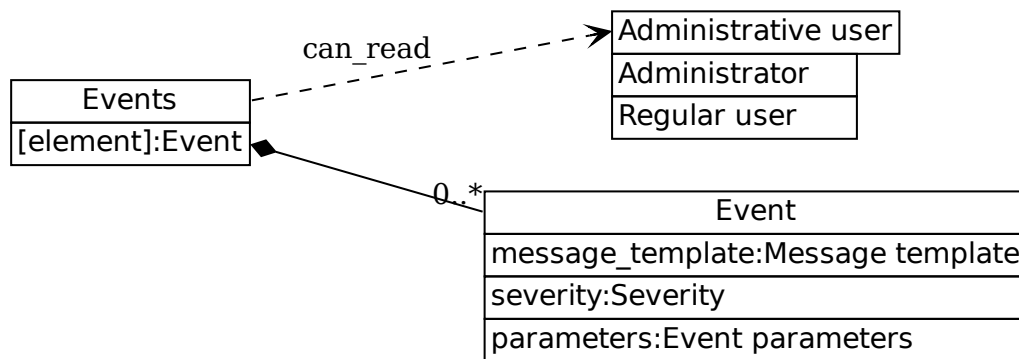
⇒

[Browse more samples](#)

See also [Notifications: Parameter kinds](#)

11.26.1 Events

map	mqtt/notifications/events/
Event templates	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Event](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/notifications/events/"
```

⇒

Sample JS request read command:

```
request.get({url:"mqtt/notifications/events/"},function(error,response,body) { ↵
↵ console.log(body) });
```

⇒

[Browse more samples](#)

See also [Events: Event](#)

11.27 Notifications: Parameter kinds

object	mqtt/notifications/parameter_kinds/
Kinds of event parameters	

This object does not correspond to an actual resource.

This object contains the following items:

connected	Connection status

11.27.1 Connection status

sum (boolean)	mqtt/notifications/parameter_kinds/connected/
Broker connection status	

This sum can assume the following values:

constant true	Connected	Broker connection successful
constant false	Failed to connect	Broker connection failed

11.28 Event parameters: Event parameter

object	mqtt/notifications/events/S/parameters/N/
Properties of a parameter associated with the event	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

id	Identifier
has_fixed_value	Fixed value flag
fixed_value	Fixed value

Sample `curl` read command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/notifications/events/:event/parameters/:event_parameter_index ↵
↵ /"
```

⇒

```
{"fixed_value":true,"has_fixed_value":true,"id":"connected"}
```

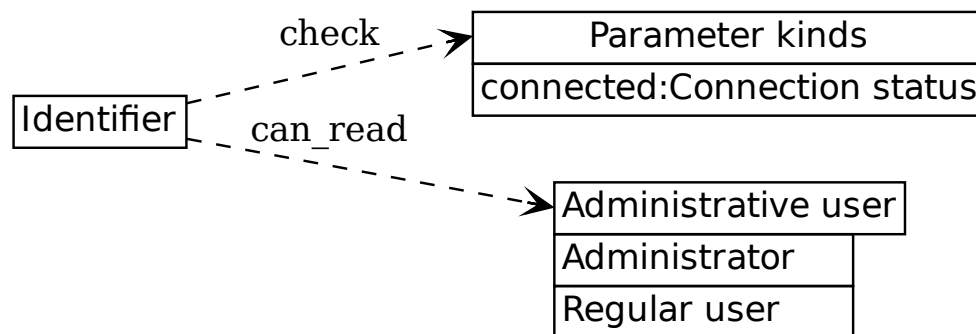
Sample CLI write command (note that `event` and `event_parameter_index` are variables):

```
uom set "mqtt/notifications/events/${event}/parameters/${event_parameter_index}" ↵
↵ "{\"fixed_value\":false,\"has_fixed_value\":true,\"id\":\"connected\"}"
```

[Browse more samples](#)

11.28.1 Identifier

string	mqtt/notifications/events/S/parameters/N/id/
Parameter identifier	



The value is subject to the following constraints: [parameter kinds\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.mqtt.notifications.events[_event].parameters[↔
↔ _event_parameter_index].id))
```

⇒

"connected"

Sample curl read command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↔
↔ restapi/mqtt/notifications/events/:event/parameters/:event_parameter_index/↔
↔ id/"
```

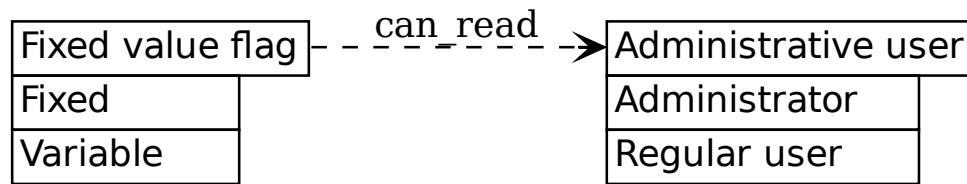
⇒

"connected"

[Browse more samples](#)

11.28.2 Fixed value flag

sum (boolean)	mqtt/notifications/events/S/parameters/N/has_fixed_value/
Flag indicating that the parameter's value for this event is fixed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Fixed	The value is fixed
constant false	Variable	The value is variable

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.mqtt.notifications.events[_event].parameters[
  ↪ _event_parameter_index].has_fixed_value))
```

⇒

true

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"mqtt/notifications/events/"+_event+"/parameters/"+
  ↪ _event_parameter_index.toString()+"/has_fixed_value/"},function(error,
  ↪ response,body) {console.log(body)});
```

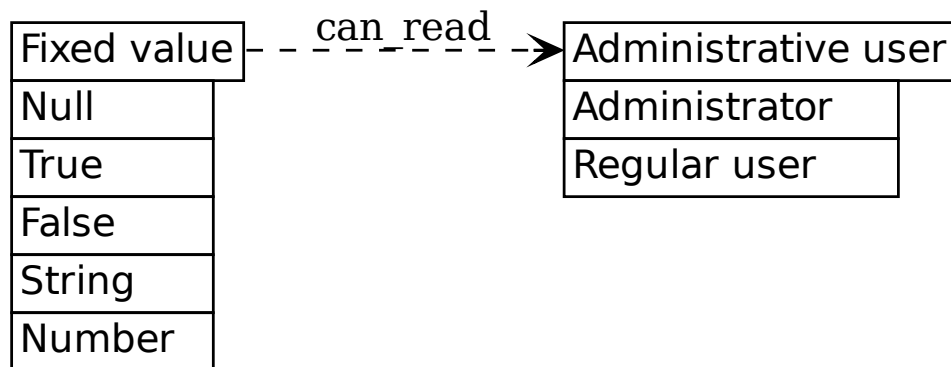
⇒

true

[Browse more samples](#)

11.28.3 Fixed value

sum (variant)	mqtt/notifications/events/S/parameters/N/fixed_value/
Fixed parameter value for this particular event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample curl read command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/mqtt/notifications/events/:event/parameters/:event_parameter_index/ ↵
    ↵ fixed_value/"
```

⇒

false

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

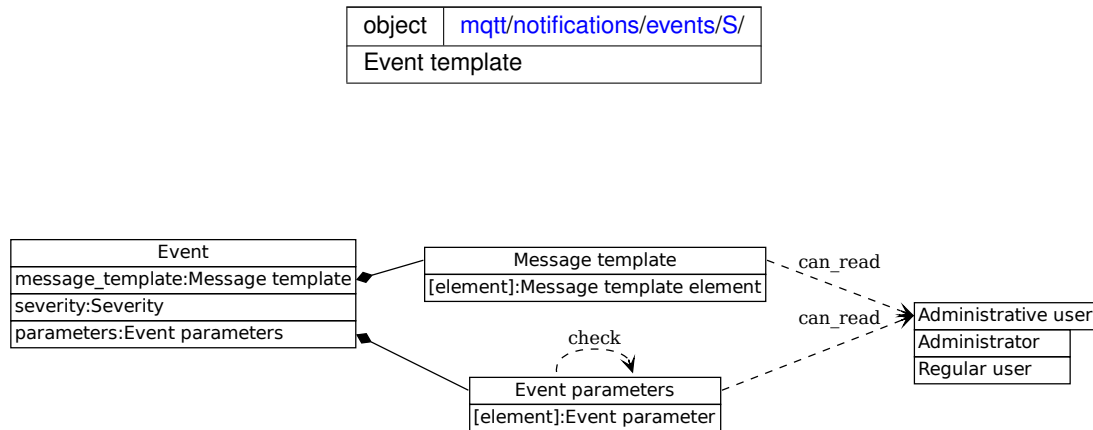
```
request.get({url:"mqtt/notifications/events/"+_event+"/parameters/"+ ↵
    ↵ _event_parameter_index.toString()+"/fixed_value/"},function(error,response, ↵
    ↵ body) {console.log(body)});
```

⇒

false

[Browse more samples](#)

11.29 Events: Event



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

message_template	Message template
severity	Severity
parameters	Event parameters

Sample JS request write command (note that `_event` is a variable):

```
request.put ({url:"mqtt/notifications/events/"+_event+"/",body:{ "severity":5, "
  ↳ message_template":["failed to connect to broker"],"parameters":[{"
  ↳ fixed_value":false, "has_fixed_value":true, "id":"connected"}]}});
```

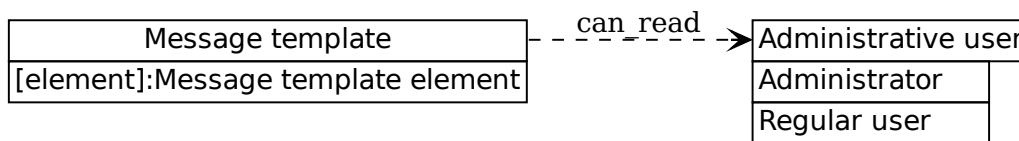
Sample uom library write command (note that `_event` is a variable):

```
uom.mqtt.notifications.events[_event]={message_template={"failed to connect to
  ↳ broker"},parameters={{fixed_value=false,has_fixed_value=true,id="connected
  ↳ "}},severity=5}
```

[Browse more samples](#)

11.29.1 Message template

array	mqtt/notifications/events/S/message_template/
Template for human-readable message generation	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Message template element](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/mqtt/notifications/events/:event/message_template/"
```

⇒

```
["failed to connect to broker"]
```

Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"mqtt/notifications/events/"+_event+"/message_template/"}, ↵
↵ function(error,response,body) {console.log(body)});
```

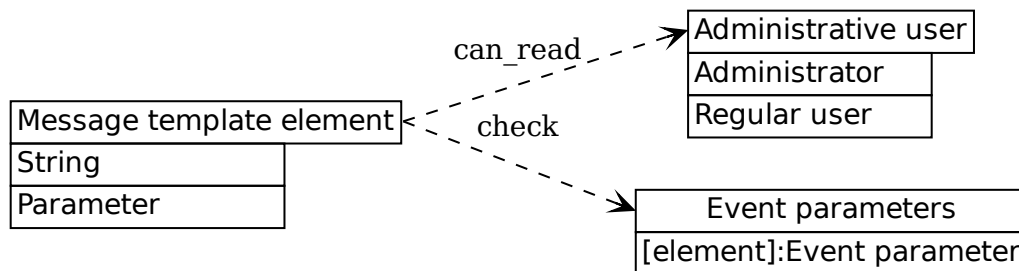
⇒

```
["connected to broker"]
```

[Browse more samples](#)

sum (variant)	mqtt/notifications/events/S/message_template/N/
Element of human-readable message template	

11.29.1.1 Message template element



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

string	String	Fixed string	
number	Parameter	Index of message parameter to insert	event parameters[the value]

Sample JS request read command (note that `_event` and `_message_template_element_index` are variables):

```
request.get({url:"mqtt/notifications/events/"+_event+"/message_template/"+
  ↳ _message_template_element_index.toString()+"/"},function(error,response,
  ↳ body) {console.log(body)});
```

⇒

"connected to broker"

Sample curl read command (note that `:event` and `:message_template_element_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
  ↳ restapi/mqtt/notifications/events/:event/message_template/:
  ↳ message_template_element_index/"
```

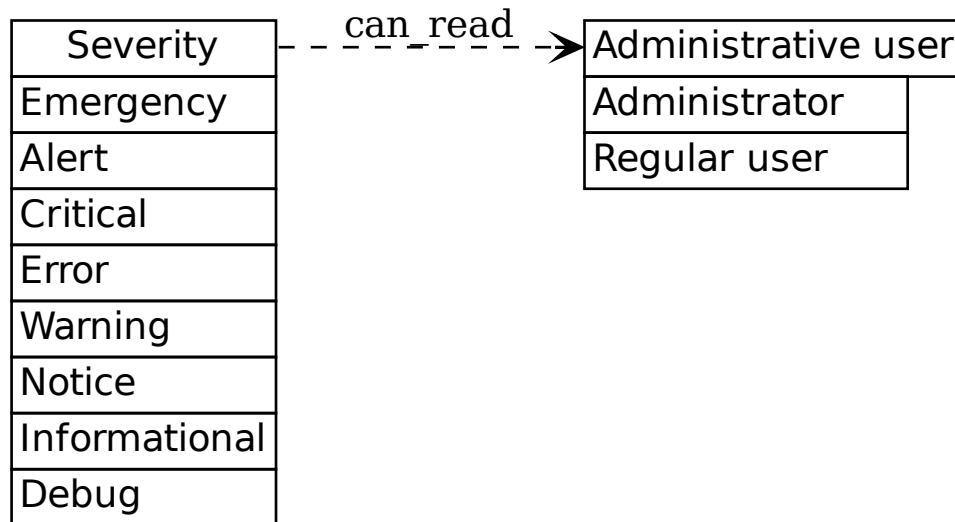
⇒

"failed to connect to broker"

[Browse more samples](#)

11.29.2 Severity

sum (enumerated number)	mqtt/notifications/events/S/severity/
Severity rating assigned to the event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant 1	Emergency	Treat the event as an emergency
constant 2	Alert	Treat the event as an alert
constant 3	Critical	Treat the event as critical
constant 4	Error	Treat the event as an error
constant 5	Warning	Treat the event as a warning
constant 6	Notice	Treat the event as a notice
constant 7	Informational	Treat the event as informational
constant 8	Debug	Treat the event as debugging-related

Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"mqtt/notifications/events/"+_event+"/severity/"},function(error ↵
    ↵ ,response,body) {console.log(body)});
```

⇒

5

Sample uom library read command (note that `_event` is a variable):

```
print(uom.dump(uom.mqtt.notifications.events[_event].severity))
```

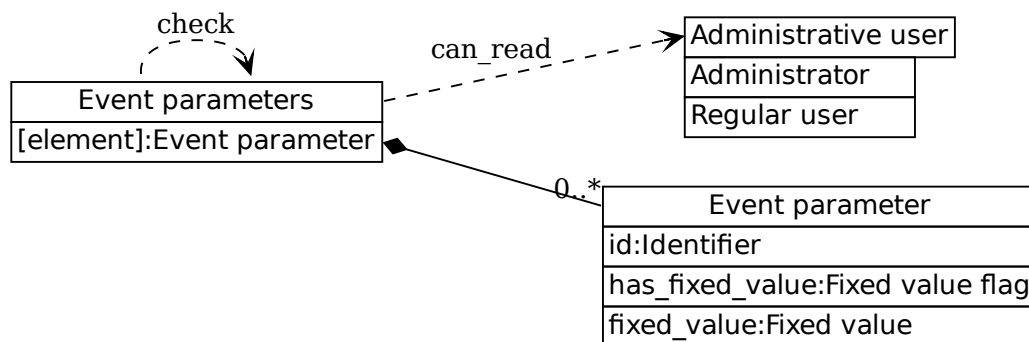
⇒

6

[Browse more samples](#)

11.29.3 Event parameters

array	mqtt/notifications/events/S/parameters/
Additional data associated with the event	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Event parameter](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"mqtt/notifications/events/"+_event+"/parameters/"},function(↵
    ↵ error,response,body) {console.log(body)});
```

⇒

```
[{"fixed_value":false,"has_fixed_value":true,"id":"connected"}]
```

Sample curl read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵
    ↵ restapi/mqtt/notifications/events/:event/parameters/"
```

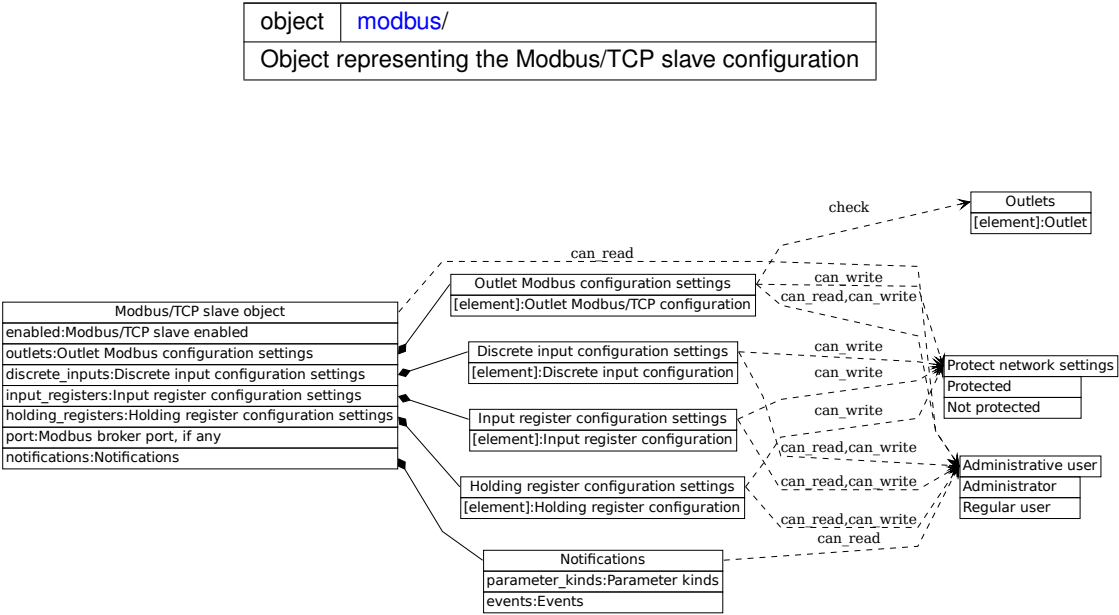
⇒

```
[{"fixed_value":false,"has_fixed_value":true,"id":"connected"}]
```

[Browse more samples](#)

See also [Event parameters: Event parameter](#)

12 Modbus/TCP slave object



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

enabled	Modbus/TCP slave enabled
outlets	Outlet Modbus configuration settings
discrete_inputs	Discrete input configuration settings
input_registers	Input register configuration settings
holding_registers	Holding register configuration settings
port	Modbus broker port, if any
notifications	Notifications

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "... " "http ↵
↵ ://192.168.0.100/restapi/modbus/"
```

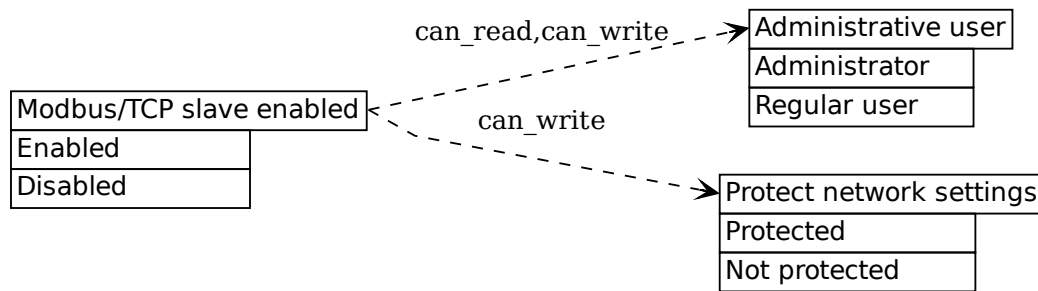
Sample JS request write command:

```
request.put ({url:"modbus/",body:<...>});
```

[Browse more samples](#)

12.1 Modbus/TCP slave enabled

sum (boolean)	modbus/enabled/
Modbus/TCP slave enable status	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample uom library write command:

```
uom.modbus.enabled=true
```

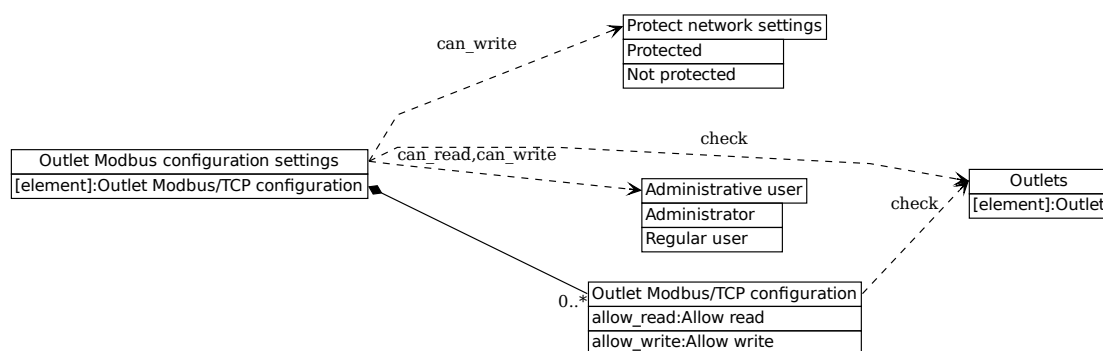
Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/modbus/enabled/', auth=auth, headers= ↵
↵ headers, json=True)
```

[Browse more samples](#)

12.2 Outlet Modbus configuration settings

array	modbus/outlets/
Properties related to exposing outlets via Modbus	



The value is subject to the following constraints: length of [the value](#) is equal to length of [outlets](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

This array contains [Outlet Modbus/TCP configuration](#) elements.

Sample `requests` read command:

```
print (requests.get('http://192.168.0.100/restapi/modbus/outlets/', auth=auth, ↵
    ↵ headers=headers).json())
```

⇒

Sample `uom` library outlet Modbus/TCP configuration creation command:

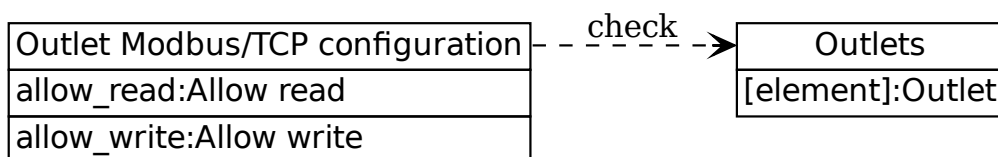
```
uom.insert(uom.modbus.outlets, 5, {allow_read=true, allow_write=true})
```

[Browse more samples](#)

See also [Outlet Modbus configuration settings: Outlet Modbus/TCP configuration](#)

12.3 Outlet Modbus configuration settings: Outlet Modbus/TCP configuration

object	modbus/outlets/N/
Properties related to exposing the outlet via Modbus/TCP	



The value is subject to the following constraints: [outlets](#)[index of the value]

This object contains the following items:

allow_read	Allow read
allow_write	Allow write

Sample JS request write command (note that `_outlet_modbus_tcp_configuration_index` is a variable):

```
request.put({url:"modbus/outlets/"+_outlet_modbus_tcp_configuration_index. ↵
↵ toString()+"/",body:{"allow_write":true,"allow_read":true}});
```

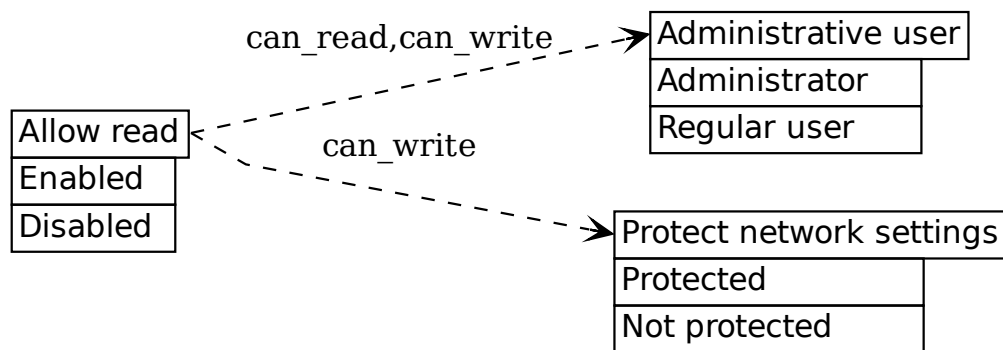
Sample JS request deletion command (note that `_outlet_modbus_tcp_configuration_index` is a variable):

```
request.delete({url:"modbus/outlets/"+_outlet_modbus_tcp_configuration_index. ↵
↵ toString()+"/"});
```

[Browse more samples](#)

12.3.1 Allow read

sum (boolean)	modbus/outlets/N/allow_read/
Outlet state is reported via Modbus/TCP	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI write command (note that `outlet_modbus_tcp_configuration_index` is a variable):

```
uom set "modbus/outlets/${outlet_modbus_tcp_configuration_index}/allow_read" " ↩
↩ false"
```

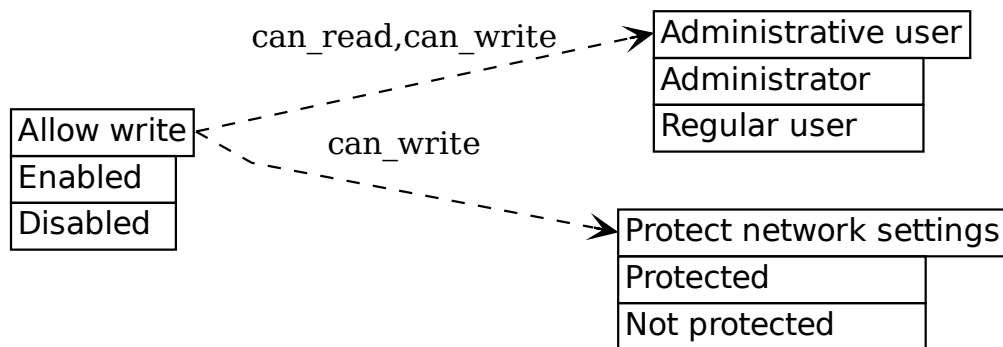
Sample `curl` write command (note that `:outlet_modbus_tcp_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↩
↩ json" -H "Accept: application/json" --data-binary "false" "http ↩
↩ ://192.168.0.100/restapi/modbus/outlets/: ↩
↩ outlet_modbus_tcp_configuration_index/allow_read/"
```

[Browse more samples](#)

12.3.2 Allow write

sum (boolean)	modbus/outlets/N/allow_write/
Outlet state can be changed via Modbus/TCP	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample JS request read command (note that `_outlet_modbus_tcp_configuration_index` is a variable):

```
request.get({url:"modbus/outlets/"+_outlet_modbus_tcp_configuration_index.
  ↳ toString()+"/allow_write/"},function(error,response,body) {console.log(body
  ↳ )});
```

⇒

true

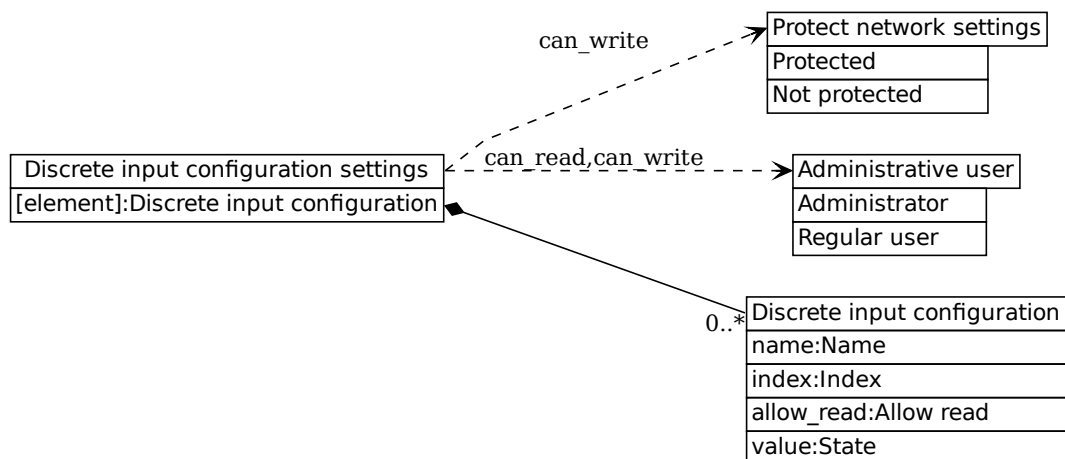
Sample uom library write command (note that `_outlet_modbus_tcp_configuration_index` is a variable):

```
uom.modbus.outlets[_outlet_modbus_tcp_configuration_index].allow_write=false
```

[Browse more samples](#)

12.4 Discrete input configuration settings

array	modbus/discrete_inputs/
Properties related to custom discrete inputs	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

This array contains [Discrete input configuration](#) elements.

Sample CLI discrete input configuration creation command:

```
uom insert "modbus/discrete_inputs/0" "{\"value\":false,\"allow_read\":true,\"↵
↵ name\":\"hi21\", \"index\":63474}"
```

Sample `requests` write command:

```
requests.put('http://192.168.0.100/restapi/modbus/discrete_inputs/', auth=auth, ↵
↵ headers=headers, json=[{'value': False, 'allow_read': False, 'name': 'gh1', ↵
↵ 'index': 24977}, {'value': True, 'allow_read': False, 'name': 'ky2', 'index ↵
↵ ': 31010}, {'value': True, 'allow_read': True, 'name': 'sijo3', 'index': ↵
↵ 29511}])
```

[Browse more samples](#)

See also [Discrete input configuration settings: Discrete input configuration](#)

12.5 Discrete input configuration settings: Discrete input configuration

object	modbus/discrete_inputs/N/
Properties related to a custom discrete input	

This object contains the following items:

name	Name
index	Index
allow_read	Allow read
value	State

Sample uom library deletion command (note that `_discrete_input_configuration_index` is a variable):

```
uom.remove(uom.modbus.discrete_inputs,_discrete_input_configuration_index)
```

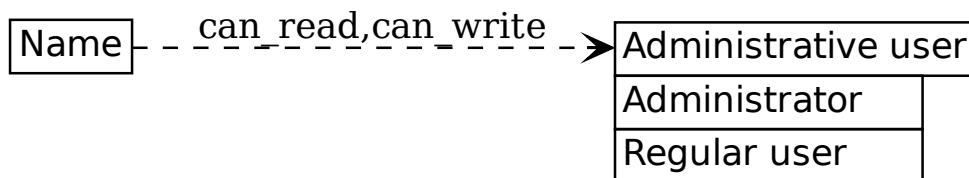
Sample uom library write command (note that `_discrete_input_configuration_index` is a variable):

```
uom.modbus.discrete_inputs[_discrete_input_configuration_index]={allow_read=false ↵
    ↵ ,index=28165,name="wgwh95",value=true}
```

[Browse more samples](#)

12.5.1 Name

string	modbus/discrete_inputs/N/name/
Discrete input name	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample JS request read command (note that `_discrete_input_configuration_index` is a variable):

```
request.get({url:"modbus/discrete_inputs/"+_discrete_input_configuration_index. ↵
    ↵ toString()+"/name/"},function(error,response,body) {console.log(body)});
```

⇒

```
"tvbevtzay7"
```

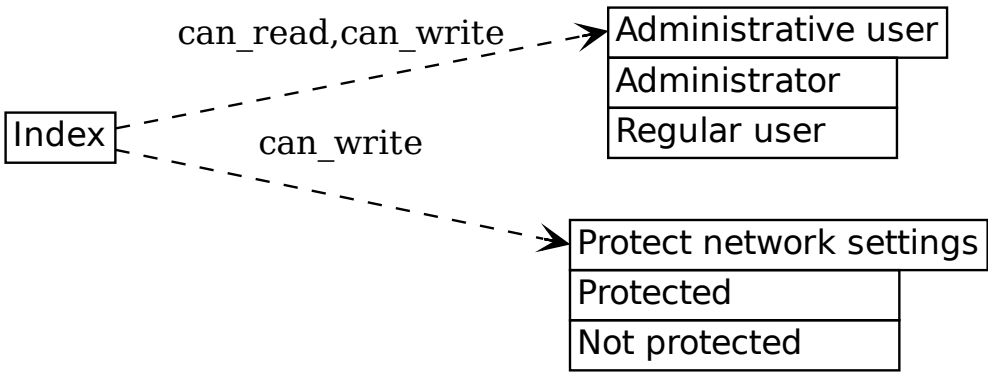
Sample `curl` write command (note that `:discrete_input_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "\"zq26\"" "http ↵
↵ ://192.168.0.100/restapi/modbus/discrete_inputs/: ↵
↵ discrete_input_configuration_index/name/"
```

[Browse more samples](#)

12.5.2 Index

number	modbus/discrete_inputs/N/index/
Zero-based index of discrete input (without 10...01 added)	



The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0
- the value is less than 65536

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This number represents a value in persistent storage.

Sample `curl` write command (note that `:discrete_input_configuration_index` is a URL template argument):


```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "40640" "http ↵
↵ ://192.168.0.100/restapi/modbus/discrete_inputs/: ↵
↵ discrete_input_configuration_index/index/"
```

Sample requests read command (note that `_discrete_input_configuration_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/modbus/discrete_inputs/'+str( ↵
↵ _discrete_input_configuration_index)+'index/', auth=auth, headers=headers). ↵
↵ json())
```

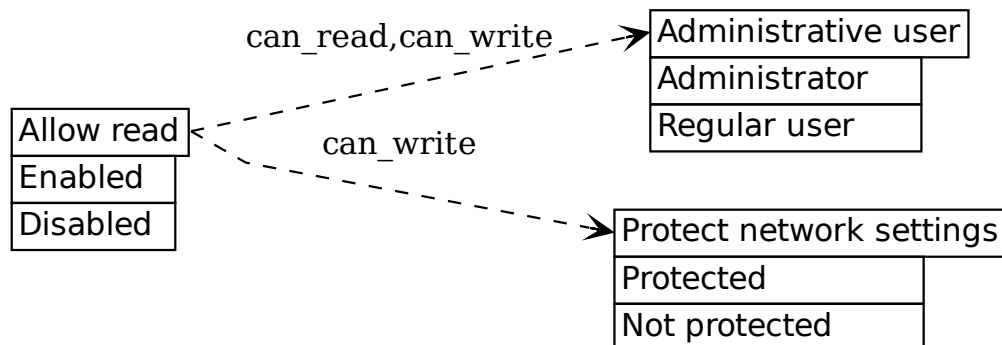
⇒

4514

[Browse more samples](#)

12.5.3 Allow read

sum (boolean)	modbus/discrete_inputs/N/allow_read/
Discrete input is readable via Modbus/TCP	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample JS request read command (note that `_discrete_input_configuration_index` is a variable):

```
request.get({url:"modbus/discrete_inputs/"+_discrete_input_configuration_index.
    ↪ toString()+"/allow_read/"},function(error,response,body) {console.log(body) ↪
    ↪ });
```

⇒

true

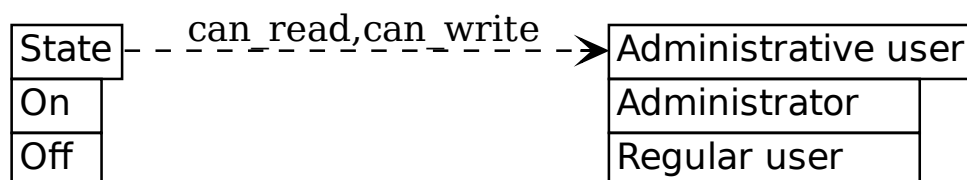
Sample requests write command (note that `_discrete_input_configuration_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/modbus/discrete_inputs/'+str( ↪
    ↪ _discrete_input_configuration_index)+"/allow_read/",auth=auth,headers= ↪
    ↪ headers,json=True)
```

[Browse more samples](#)

12.5.4 State

sum (boolean)	modbus/discrete_inputs/N/value/
State of discrete input	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	On	The input is on
constant false	Off	The input is off

Sample requests read command (note that `_discrete_input_configuration_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/modbus/discrete_inputs/'+str( ↪
    ↪ _discrete_input_configuration_index)+"/value/",auth=auth,headers=headers). ↪
    ↪ json())
```

⇒

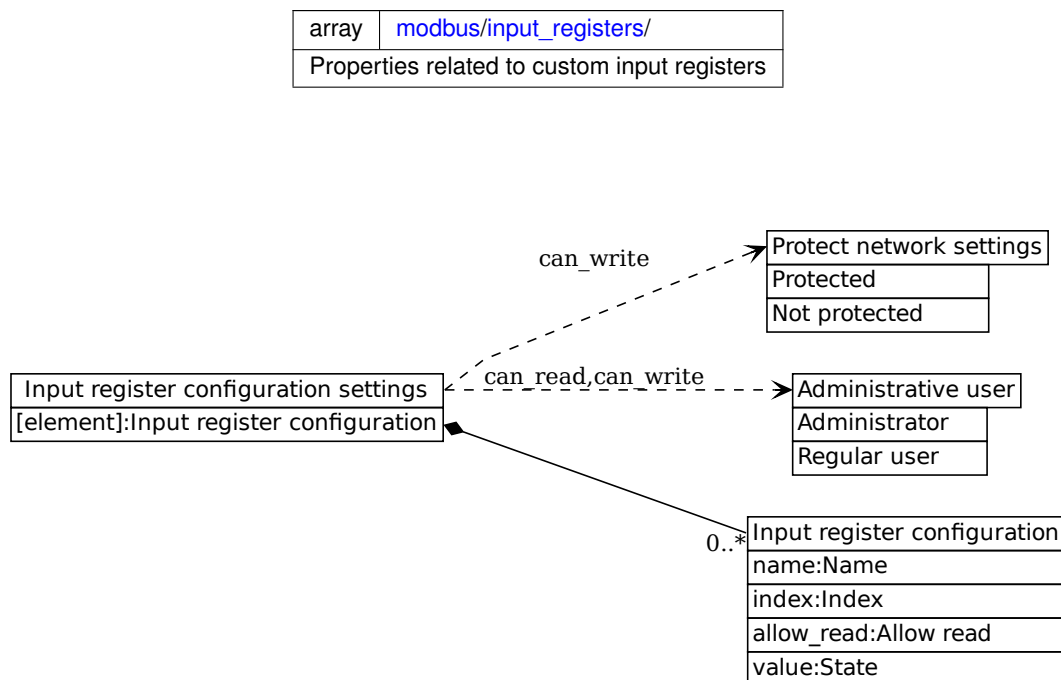
True

Sample requests write command (note that `_discrete_input_configuration_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/modbus/discrete_inputs/'+str( ↵
    ↵ _discrete_input_configuration_index)+' /value/', auth=auth, headers=headers, ↵
    ↵ json=False)
```

[Browse more samples](#)

12.6 Input register configuration settings



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

This array contains [Input register configuration](#) elements.

Sample uom library write command:

```
uom.modbus.input_registers=({allow_read=false, index=8029, name="jewvcpo12", value ↵
    ↵ =39135}, {allow_read=false, index=24103, name="sh3", value=65036})
```

Sample JS request read command:

```
request.get({url:"modbus/input_registers/"},function(error,response,body) {
  ↪ console.log(body) });
```

⇒

[]

[Browse more samples](#)

See also [Input register configuration settings: Input register configuration](#)

12.7 Input register configuration settings: Input register configuration

object	modbus/input_registers/N/
Properties related to a custom input register	

This object contains the following items:

name	Name
index	Index
allow_read	Allow read
value	State

Sample requests deletion command (note that `_input_register_configuration_index` is a variable):

```
requests.delete('http://192.168.0.100/restapi/modbus/input_registers/'+str(
  ↪ _input_register_configuration_index)+'/',auth=auth,headers=headers)
```

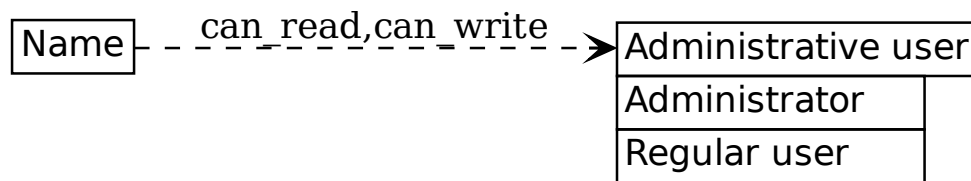
Sample curl deletion command (note that `:input_register_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X DELETE -H "Accept: application/json"
  ↪ " "http://192.168.0.100/restapi/modbus/input_registers/:
  ↪ input_register_configuration_index/"
```

[Browse more samples](#)

12.7.1 Name

string	modbus/input_registers/N/name/
Input register name	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample CLI write command (note that `input_register_configuration_index` is a variable):

```
uom set "modbus/input_registers/${input_register_configuration_index}/name" "\" ↵
↵ jeb23\""
```

Sample `curl` read command (note that `:input_register_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/modbus/input_registers/:input_register_configuration_index/name/"
```

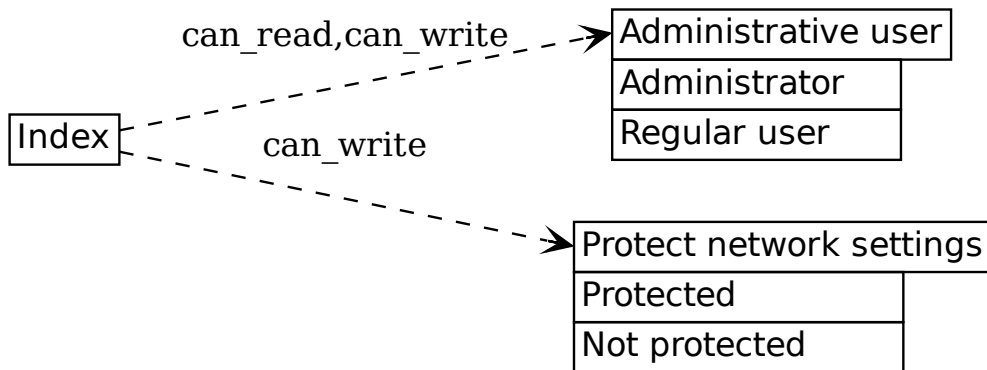
⇒

"oocvafk89"

[Browse more samples](#)

12.7.2 Index

number	modbus/input_registers/N/index/
Zero-based index of input register (without 30...01 added)	



The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0
- the value is less than 65536

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This number represents a value in persistent storage.

Sample uom library read command (note that `_input_register_configuration_index` is a variable):

```
print(uom.dump(uom.modbus.input_registers[_input_register_configuration_index].  
↔ index))
```

⇒

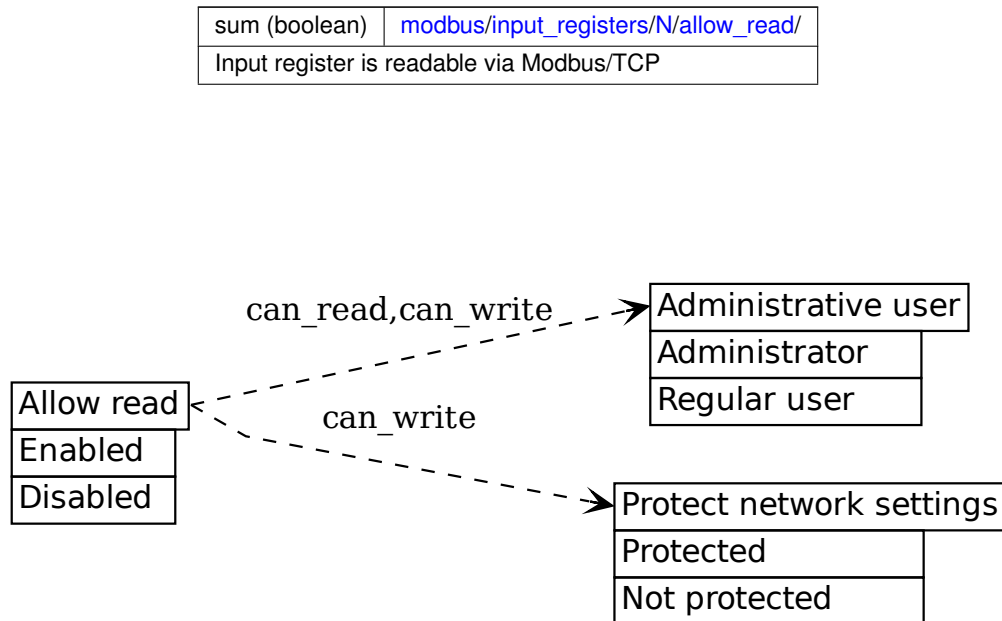
62860

Sample CLI write command (note that `input_register_configuration_index` is a variable):

```
uom set "modbus/input_registers/${input_register_configuration_index}/index"  
↔ "63701"
```

[Browse more samples](#)

12.7.3 Allow read



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample requests write command (note that `_input_register_configuration_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/modbus/input_registers/'+str(↵
    ↵ _input_register_configuration_index)+'/allow_read/', auth=auth, headers=↵
    ↵ headers, json=False)
```

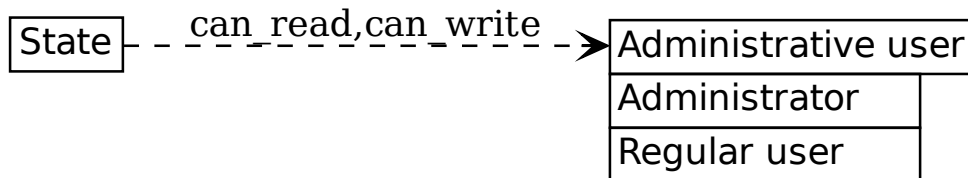
Sample CLI write command (note that `input_register_configuration_index` is a variable):

```
uom set "modbus/input_registers/${input_register_configuration_index}/allow_read" ↵
    ↵ "false"
```

[Browse more samples](#)

12.7.4 State

number	modbus/input_registers/N/value/
State of input register	



The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater or equal to 0
- [the value](#) is less than 65536

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample JS request read command (note that `_input_register_configuration_index` is a variable):

```
request.get({url:"modbus/input_registers/"+_input_register_configuration_index.  
↔ toString()+"/value/"},function(error,response,body) {console.log(body)});
```

⇒

11366

Sample uom library read command (note that `_input_register_configuration_index` is a variable):

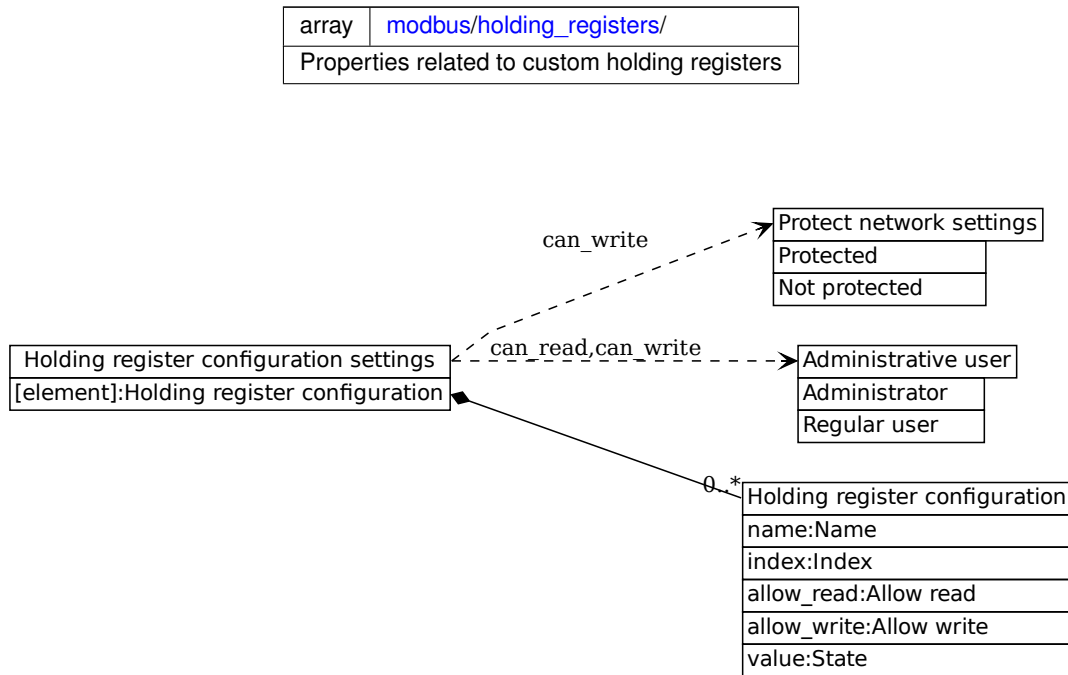
```
print(uom.dump(uom.modbus.input_registers[_input_register_configuration_index].  
↔ value))
```

⇒

27906

[Browse more samples](#)

12.8 Holding register configuration settings



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This array represents a value in persistent storage.

This array contains [Holding register configuration](#) elements.

Sample CLI write command:

```
uom set "modbus/holding_registers" "[{"allow_read":false,"name\\":\\"a40\\",\\"
↪ value\\":34340,\"allow_write\\":true,\"index\\":34423}]"
```

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/modbus/holding_registers/',auth=
↪ auth,headers=headers).json())
```

⇒

```
[{'allow_read': False, 'name': '54', 'value': 1760, 'allow_write': False, 'index
↪ ': 25385}]
```

[Browse more samples](#)

See also [Holding register configuration settings: Holding register configuration](#)

12.9 Holding register configuration settings: Holding register configuration

object	modbus/holding_registers/N/
Properties related to a custom holding register	

This object contains the following items:

name	Name
index	Index
allow_read	Allow read
allow_write	Allow write
value	State

Sample JS request deletion command (note that `_holding_register_configuration_index` is a variable):

```
request.delete({url:"modbus/holding_registers/" + ↵
    ↵ _holding_register_configuration_index.toString()+"/"});
```

Sample JS request read command (note that `_holding_register_configuration_index` is a variable):

```
request.get({url:"modbus/holding_registers/" + ↵
    ↵ _holding_register_configuration_index.toString()+"/"},function(error, ↵
    ↵ response,body) {console.log(body)});
```

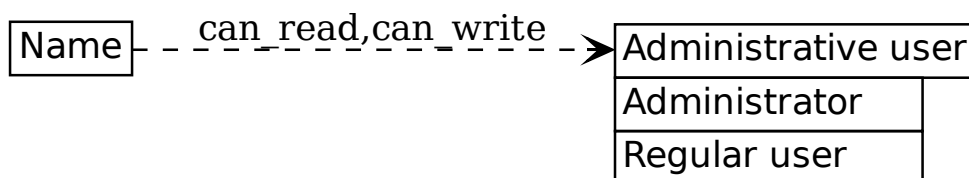
⇒

```
{ "allow_read":true, "name":"k6", "value":470, "allow_write":true, "index":28108 }
```

[Browse more samples](#)

12.9.1 Name

string	modbus/holding_registers/N/name/
Holding register name	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample `curl` read command (note that `:holding_register_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/modbus/holding_registers/:holding_register_configuration_index/name ↵
↵ /"
```

⇒

"f8"

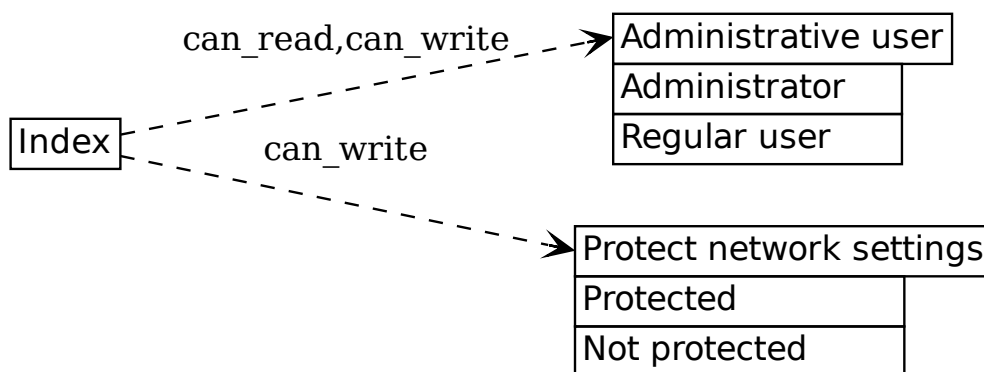
Sample JS request write command (note that `_holding_register_configuration_index` is a variable):

```
request.put({url:"modbus/holding_registers/" + ↵
↵ _holding_register_configuration_index.toString()+"/name/",body:"h62"});
```

[Browse more samples](#)

12.9.2 Index

number	modbus/holding_registers/N/index/
Zero-based index of holding register (without 40...01 added)	



The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0
- the value is less than 65536

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This number represents a value in persistent storage.

Sample `curl` read command (note that `:holding_register_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/modbus/holding_registers/:holding_register_configuration_index/ ↵
↵ index/"
```

⇒

35824

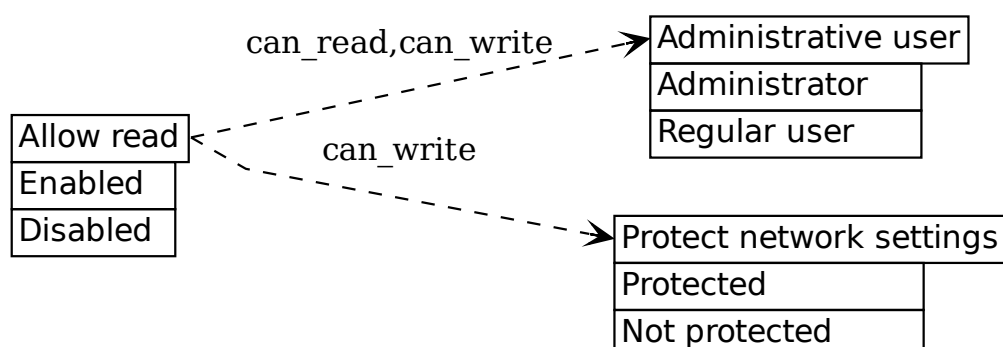
Sample `uom` library write command (note that `_holding_register_configuration_index` is a variable):

```
uom.modbus.holding_registers[_holding_register_configuration_index].index=47985
```

[Browse more samples](#)

12.9.3 Allow read

sum (boolean)	modbus/holding_registers/N/allow_read/
Holding register is readable via Modbus/TCP	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `curl` read command (note that `:holding_register_configuration_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/modbus/holding_registers/:holding_register_configuration_index/ ↵
↵ allow_read/"
```

⇒

false

Sample `uom` library read command (note that `_holding_register_configuration_index` is a variable):

```
print(uom.dump(uom.modbus.holding_registers[_holding_register_configuration_index ↵
↵ ].allow_read))
```

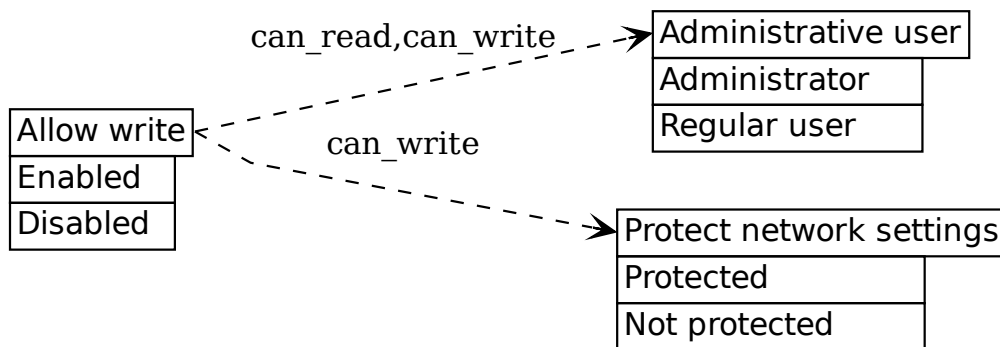
⇒

false

[Browse more samples](#)

12.9.4 Allow write

sum (boolean)	modbus/holding_registers/N/allow_write/
Holding register is writable via Modbus/TCP	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample CLI write command (note that `holding_register_configuration_index` is a variable):

```
uom set "modbus/holding_registers/${holding_register_configuration_index}/ ↵
↵ allow_write" "true"
```

Sample JS request read command (note that `_holding_register_configuration_index` is a variable):

```
request.get({url:"modbus/holding_registers/" + ↵
↵ _holding_register_configuration_index.toString()+"/allow_write/"},function( ↵
↵ error,response,body) {console.log(body)});
```

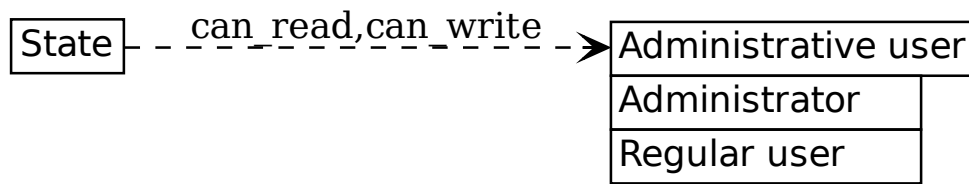
⇒

true

[Browse more samples](#)

12.9.5 State

number	modbus/holding_registers/N/value/
State of holding register	



The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0
- the value is less than 65536

Retrieving the value is denied if not **administrative user**

Changing the value is denied if not **administrative user**

This number represents a value in persistent storage.

Sample JS request write command (note that `_holding_register_configuration_index` is a variable):

```
request.put({url:"modbus/holding_registers/"+
  ↪ _holding_register_configuration_index.toString()+"/value/",body:36346});
```

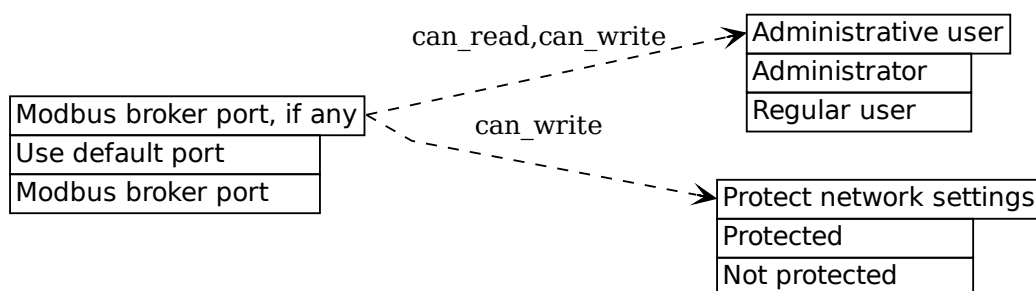
Sample requests write command (note that `_holding_register_configuration_index` is a variable):

```
requests.put('http://192.168.0.100/restapi/modbus/holding_registers/'+str(
  ↪ _holding_register_configuration_index)+"/value/",auth=auth,headers=headers,
  ↪ json=21423)
```

[Browse more samples](#)

12.10 Modbus broker port, if any

sum (optional number)	modbus/port/
TCP port to listen on, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)
- [protect network settings](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Use default port	Listen on TCP port 502	
number	Modbus broker port	TCP port to listen on	all of the following is true: • the value is an integer • the value is greater than 0 • the value is less than 65535

Sample uom library read command:

```
print(uom.dump(uom.modbus.port))
```

⇒

```
null
```

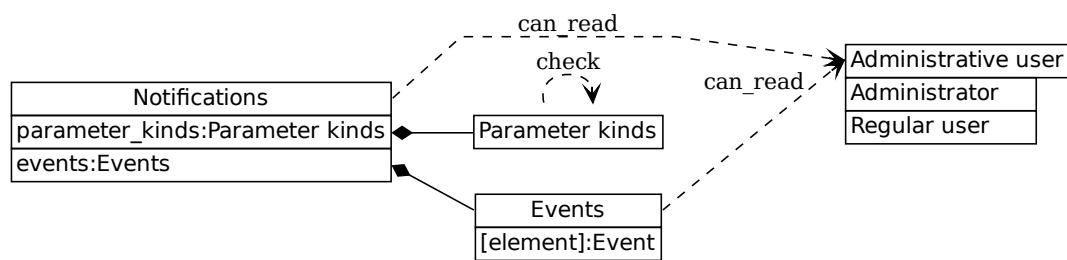
Sample CLI write command:

```
uom set "modbus/port" "null"
```

[Browse more samples](#)

12.11 Notifications

object	modbus/notifications/
Modbus-related notifications	



Retrieving the value is denied if not [administrative user](#)

This object does not support direct modification.

This object contains the following items:

parameter_kinds	Parameter kinds
events	Events

Sample CLI read command:

```
uom get "modbus/notifications"
```

⇒

```
{ "events": { "dli.modbus.sample_event": { "parameters": [ { "id": "sample_parameter", "
↪ has_fixed_value": false, "fixed_value": null } ], "message_template": [ "sample
↪ event" ] } }, "parameter_kinds": [ ] }
```

Sample JS request read command:

```
request.get ({url: "modbus/notifications/"}, function (error, response, body) { console.
↪ log (body) });
```

⇒

```
{ "events": { "dli.modbus.sample_event": { "parameters": [ { "id": "sample_parameter", "
↪ has_fixed_value": false, "fixed_value": null } ], "message_template": [ "sample
↪ event" ] } }, "parameter_kinds": [ ] }
```

[Browse more samples](#)

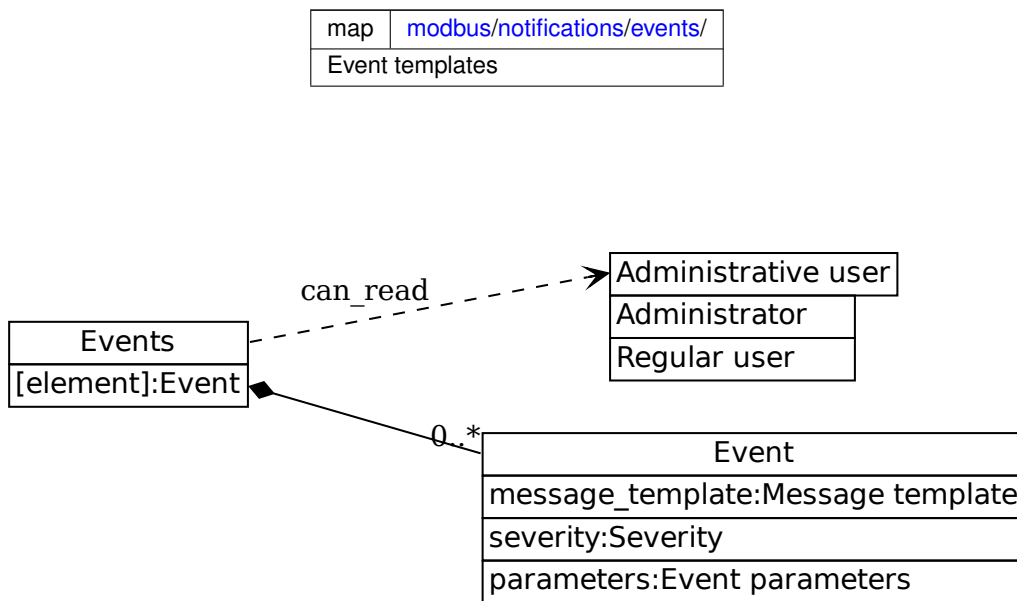
12.11.1 Parameter kinds

object	modbus/notifications/parameter_kinds/
Kinds of event parameters	

This object does not correspond to an actual resource.

This object is empty.

12.11.2 Events



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Event](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/modbus/notifications/events/"
```

⇒

```
{ "dli.modbus.sample_event": { "parameters": [ { "id": "sample_parameter", " ↵
↵ has_fixed_value": false, "fixed_value": null } ], "message_template": [ "sample ↵
↵ event" ] } }
```

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/modbus/notifications/events/', ↵
↵ auth=auth, headers=headers).json())
```

⇒

```
{ 'dli.modbus.sample_event': { 'parameters': [ { 'id': 'sample_parameter', ' ↵
↵ has_fixed_value': False, 'fixed_value': None } ], 'message_template': [ ' ↵
↵ sample event' ] } }
```

[Browse more samples](#)

See also [Events: Event](#)

12.12 Event parameters: Event parameter

object	modbus/notifications/events/S/parameters/N/
Properties of a parameter associated with the event	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

id	Identifier
has_fixed_value	Fixed value flag
fixed_value	Fixed value

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "modbus/notifications/events/${event}/parameters/${event_parameter_index} ↵  
↵ }
```

⇒

```
{ "id": "sample_parameter", "has_fixed_value": false, "fixed_value": null }
```

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get ({url: "modbus/notifications/events/" + _event + "/parameters/" + ↵  
↵ _event_parameter_index.toString() + "/" }, function (error, response, body) { ↵  
↵ console.log (body) });
```

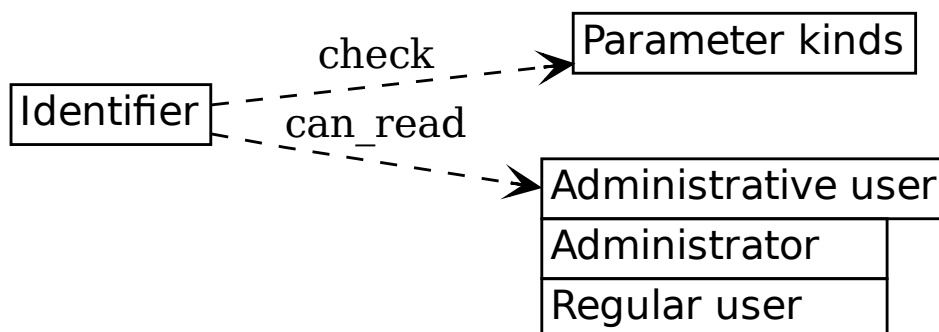
⇒

```
{ "id": "sample_parameter", "has_fixed_value": false, "fixed_value": null }
```

[Browse more samples](#)

12.12.1 Identifier

string	modbus/notifications/events/S/parameters/N/id/
Parameter identifier	



The value is subject to the following constraints: [parameter kinds\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample `curl` read command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/modbus/notifications/events/:event/parameters/: ↵
↵ event_parameter_index/id/"
```

⇒

```
"sample_parameter"
```

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "modbus/notifications/events/${event}/parameters/${event_parameter_index} ↵
↵ }/id"
```

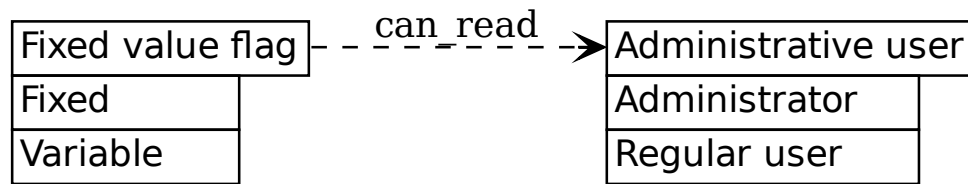
⇒

```
"sample_parameter"
```

[Browse more samples](#)

12.12.2 Fixed value flag

sum (boolean)	modbus/notifications/events/S/parameters/N/has_fixed_value/
Flag indicating that the parameter's value for this event is fixed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Fixed	The value is fixed
constant false	Variable	The value is variable

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "modbus/notifications/events/${event}/parameters/${event_parameter_index} ↵
↵ }/has_fixed_value"
```

⇒

false

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.modbus.notifications.events[_event].parameters[ ↵
↵ _event_parameter_index].has_fixed_value))
```

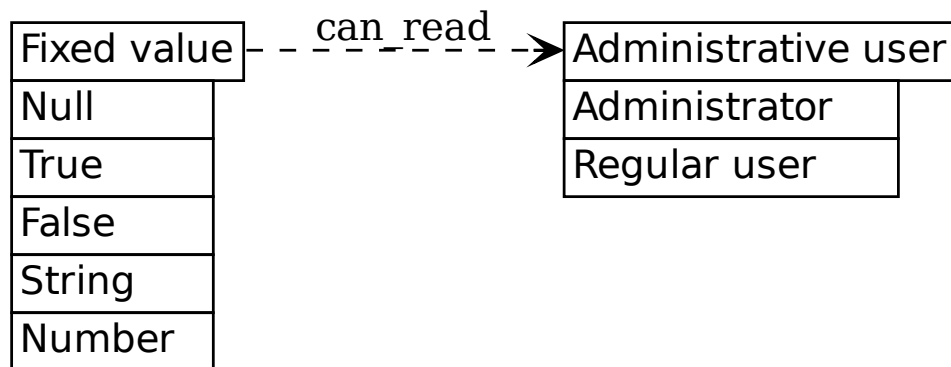
⇒

false

[Browse more samples](#)

12.12.3 Fixed value

sum (variant)	modbus/notifications/events/S/parameters/N/fixed_value/
Fixed parameter value for this particular event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample `curl` read command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/modbus/notifications/events/:event/parameters/: ↵
↵ event_parameter_index/fixed_value/"
```

⇒

null

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

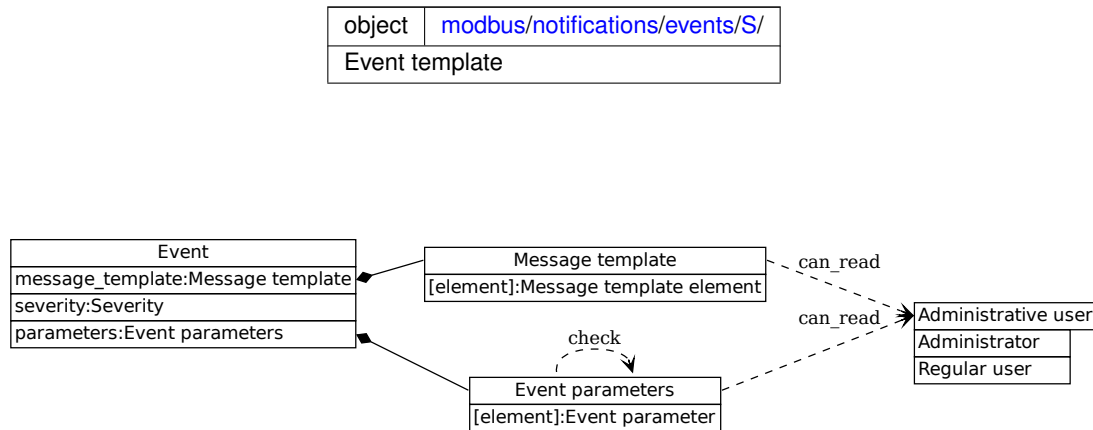
```
uom get "modbus/notifications/events/${event}/parameters/${event_parameter_index ↵
↵ }/fixed_value"
```

⇒

null

[Browse more samples](#)

12.13 Events: Event



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

message_template	Message template
severity	Severity
parameters	Event parameters

Sample uom library read command (note that `_event` is a variable):

```
print(uom.dump(uom.modbus.notifications.events[_event]))
```

⇒

```
{message_template={"sample event"},parameters={{fixed_value=null,has_fixed_value=↵
↵ false,id="sample_parameter"}}
```

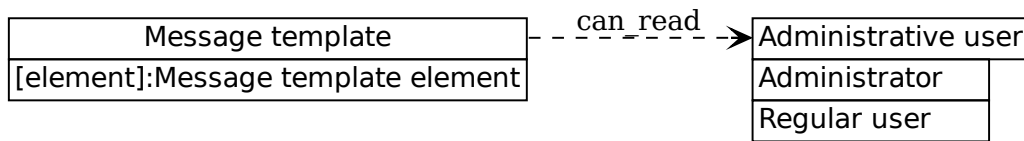
Sample requests write command (note that `_event` is a variable):

```
requests.put('http://192.168.0.100/restapi/modbus/notifications/events/'+_event ↵
↵ +'/',auth=auth,headers=headers,json={'parameters': [{ 'id': ' ↵
↵ sample_parameter', 'has_fixed_value': False, 'fixed_value': None}], ' ↵
↵ message_template': ['sample event']})
```

[Browse more samples](#)

12.13.1 Message template

array	modbus/notifications/events/S/message_template/
Template for human-readable message generation	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Message template element](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command (note that `_event` is a variable):

```
print(uom.dump(uom.modbus.notifications.events[_event].message_template))
```

⇒

```
{"sample event"}
```

Sample requests read command (note that `_event` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/modbus/notifications/events/'+
↳ _event+ '/message_template/', auth=auth, headers=headers).json())
```

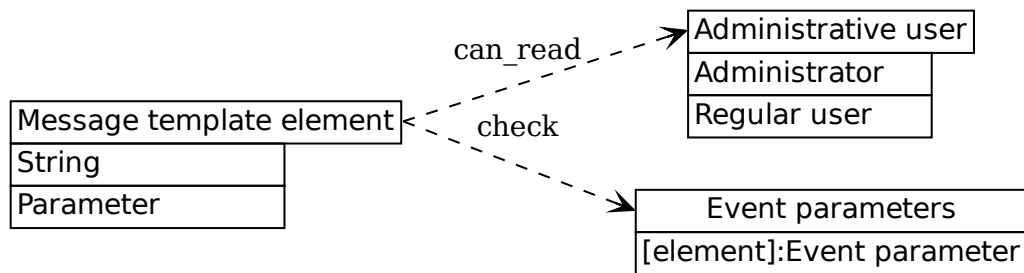
⇒

```
['sample event']
```

[Browse more samples](#)

sum (variant)	modbus/notifications/events/S/message_template/N/
Element of human-readable message template	

12.13.1.1 Message template element



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

string	String	Fixed string	
number	Parameter	Index of message parameter to insert	event parameters[the value]

Sample curl read command (note that `:event` and `:message_template_element_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/modbus/notifications/events/:event/message_template/: ↵
↵ message_template_element_index/"
```

⇒

```
"sample event"
```

Sample JS request read command (note that `_event` and `_message_template_element_index` are variables):

```
request.get({url:"modbus/notifications/events/"+_event+"/message_template/"+ ↵
↵ _message_template_element_index.toString()+"/"},function(error,response, ↵
↵ body) {console.log(body)});
```

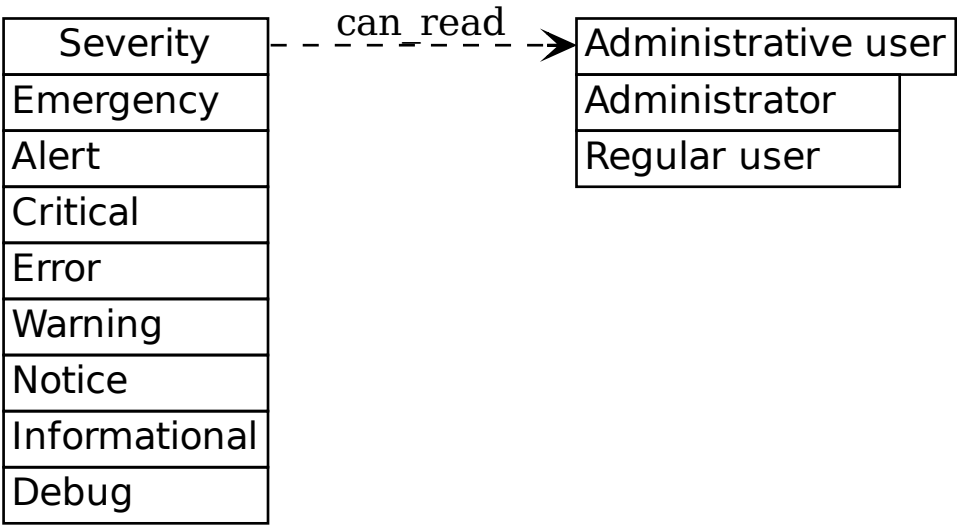
⇒

```
"sample event"
```

[Browse more samples](#)

12.13.2 Severity

sum (enumerated number)	modbus/notifications/events/S/severity/
Severity rating assigned to the event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant 1	Emergency	Treat the event as an emergency
constant 2	Alert	Treat the event as an alert
constant 3	Critical	Treat the event as critical
constant 4	Error	Treat the event as an error
constant 5	Warning	Treat the event as a warning
constant 6	Notice	Treat the event as a notice
constant 7	Informational	Treat the event as informational
constant 8	Debug	Treat the event as debugging-related

Sample uom library read command (note that `_event` is a variable):

```
print(uom.dump(uom.modbus.notifications.events[_event].severity))  
  
⇒  
{ }
```

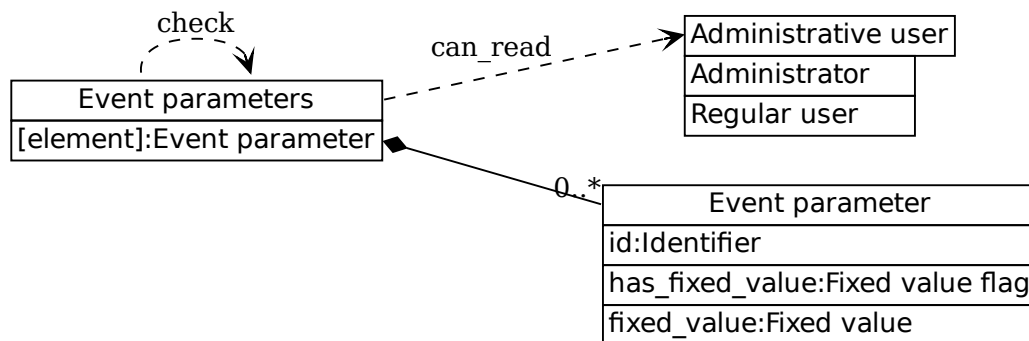
Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"modbus/notifications/events/"+_event+"/severity/"},function(↵  
    ↵ error,response,body) {console.log(body)});  
  
⇒  
[ ]
```

[Browse more samples](#)

12.13.3 Event parameters

array	modbus/notifications/events/S/parameters/
Additional data associated with the event	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Event parameter](#) elements.

Creating elements in this collection is not supported.

Sample requests read command (note that `_event` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/modbus/notifications/events/' + ↔
↔ _event + '/parameters/', auth=auth, headers=headers).json())
```

⇒

```
[{'id': 'sample_parameter', 'has_fixed_value': False, 'fixed_value': None}]
```

Sample CLI read command (note that `event` is a variable):

```
uom get "modbus/notifications/events/${event}/parameters"
```

⇒

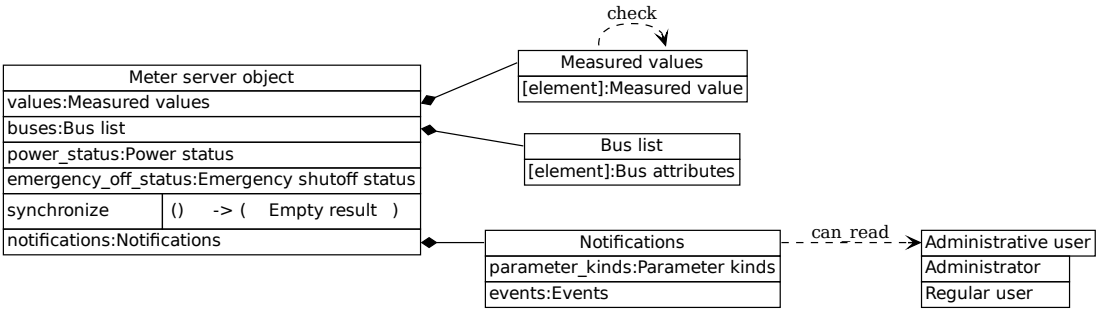
```
[{"id": "sample_parameter", "has_fixed_value": false, "fixed_value": null}]
```

[Browse more samples](#)

See also [Event parameters: Event parameter](#)

13 Meter server object

object	meter/
Object representing the meter server state and configuration	



This object contains the following items:

values	Measured values
buses	Bus list
power_status	Power status
emergency_off_status	Emergency shutoff status
synchronize	Synchronize meter data
notifications	Notifications

Sample JS request read command:

```
request.get({url:"meter/"},function(error,response,body){console.log(body)});
```

⇒

<...>

Sample CLI read command:

```
uom get meter
```

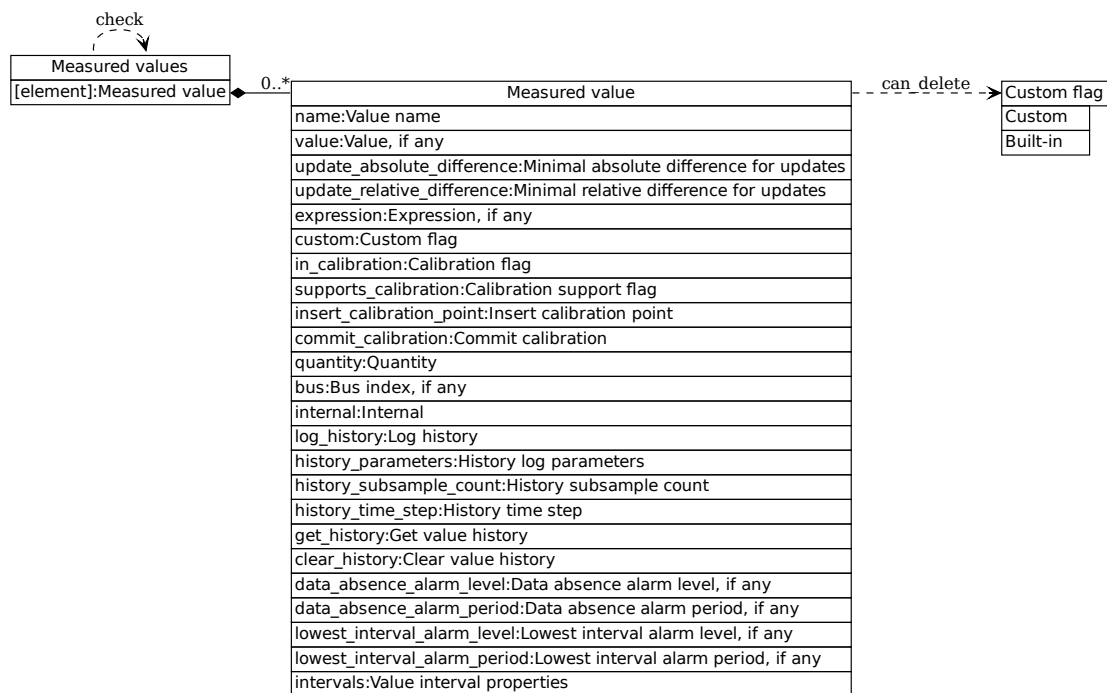
⇒

...

[Browse more samples](#)

13.1 Measured values

map	meter/values/
Values measured by meters	



This map contains [Measured value](#) elements.

Sample curl write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "... "http ↵
↵ ://192.168.0.100/restapi/meter/values/"
```

Sample JS request read command:

```
request.get({url:"meter/values/"},function(error,response,body) {console.log(body ↵
↵ )});
```

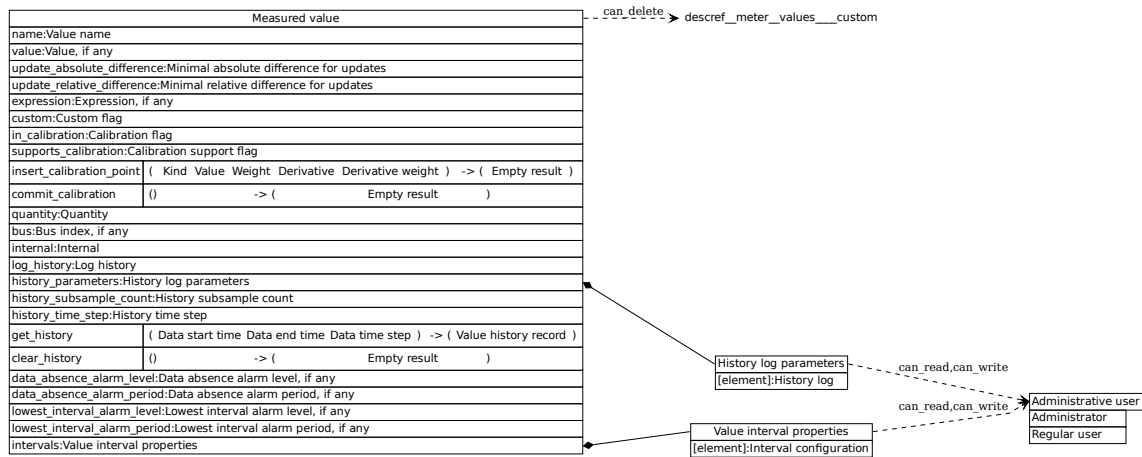
⇒

<...>

[Browse more samples](#)

13.1.1 Measured value

object	meter/values/S/
Value measured by meter	



The value is subject to the following constraints: not index of the value matches $^(|.|.*|.*)\$$

Removing the object from its parent collection is denied if not **custom flag**

This object contains the following items:

name	Value name
value	Value, if any
update_absolute_difference	Minimal absolute difference for updates
update_relative_difference	Minimal relative difference for updates
expression	Expression, if any
custom	Custom flag
in_calibration	Calibration flag
supports_calibration	Calibration support flag
insert_calibration_point	Insert calibration point
commit_calibration	Commit calibration
quantity	Quantity
bus	Bus index, if any
internal	Internal
log_history	Log history
history_parameters	History log parameters
history_subsample_count	History subsample count
history_time_step	History time step
get_history	Get value history
clear_history	Clear value history
data_absence_alarm_level	Data absence alarm level, if any
data_absence_alarm_period	Data absence alarm period, if any
lowest_interval_alarm_level	Lowest interval alarm level, if any
lowest_interval_alarm_period	Lowest interval alarm period, if any
intervals	Value interval properties

Sample CLI read command (note that `measured_value` is a variable):

```
uom get "meter/values/${measured_value}"
```

⇒

...

Sample requests deletion command (note that `_measured_value` is a variable):

```
requests.delete('http://192.168.0.100/restapi/meter/values/'+_measured_value+'/',  
↳ auth=auth,headers=headers)
```

[Browse more samples](#)

See also [Measured value: Value name](#)

See also [Measured value: Value, if any](#)

See also [Measured value: Minimal absolute difference for updates](#)

See also [Measured value: Minimal relative difference for updates](#)

See also [Measured value: Expression, if any](#)

See also [Measured value: Custom flag](#)

See also [Measured value: Calibration flag](#)

See also [Measured value: Calibration support flag](#)

See also [Measured value: Insert calibration point](#)

See also [Measured value: Commit calibration](#)

See also [Measured value: Quantity](#)

See also [Measured value: Bus index, if any](#)

See also [Measured value: Internal](#)

See also [Measured value: Log history](#)

See also [Measured value: History log parameters](#)

See also [Measured value: History subsample count](#)

See also [Measured value: History time step](#)

See also [Measured value: Get value history](#)

See also [Measured value: Clear value history](#)

See also [Measured value: Data absence alarm level, if any](#)

See also [Measured value: Data absence alarm period, if any](#)

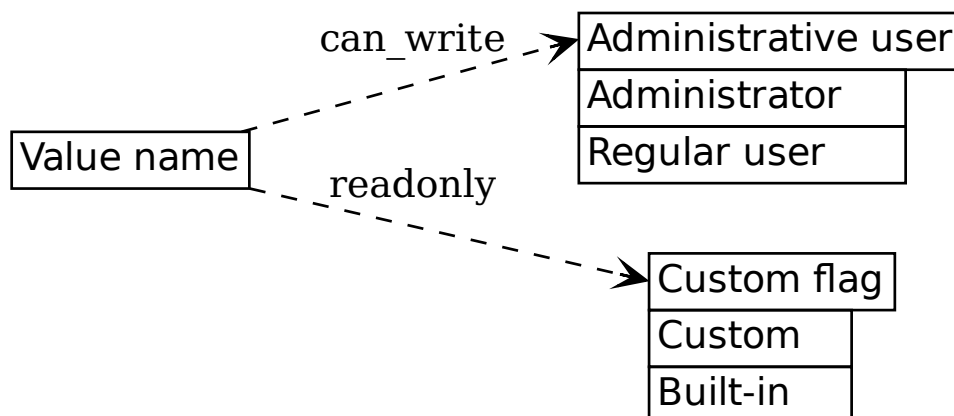
See also [Measured value: Lowest interval alarm level, if any](#)

See also [Measured value: Lowest interval alarm period, if any](#)

See also [Measured value: Value interval properties](#)

13.2 Measured value: Value name

string	meter/values/S/name/
Name of the measured value	



Changing the value is denied if not [administrative user](#)

This string does not support direct modification if not [custom flag](#).

This string represents a value in persistent storage.

Sample CLI write command (note that `measured_value` is a variable):

```
uom set "meter/values/${measured_value}/name" "\"DC voltage\""
```

Sample `requests` read command (note that `_measured_value` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/meter/values/'+_measured_value ↵
↵ +'/name/', auth=auth, headers=headers).json())
```

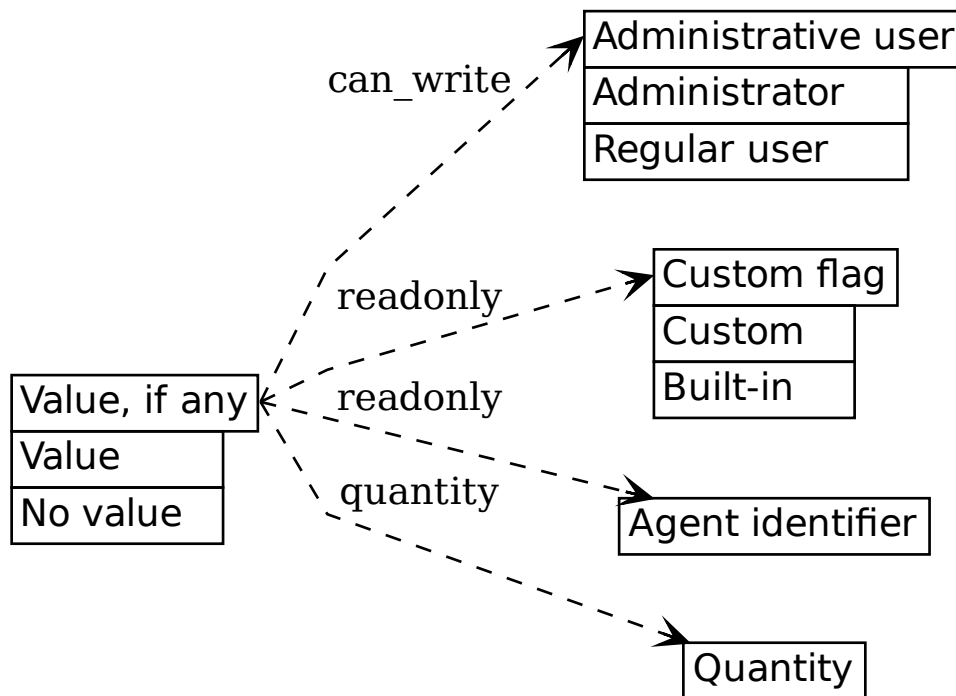
⇒

```
'AC voltage'
```

[Browse more samples](#)

13.3 Measured value: Value, if any

sum (variant)	meter/values/S/value/
Current value measured by meter, if any	



Changing the value is denied if not [administrative user](#)

This sum does not support direct modification if all of the following is true:

- not [custom flag](#)
- [agent identifier](#) is not equal to relay

This sum can change as if by itself or indirectly because of other actions.

Changes to this sum may have an effect besides setting value.

This sum can assume the following values:

number	Value	Current value measured by meter
constant false	No value	Indication that measurement is currently not being carried out

Sample uom library write command (note that `_measured_value` is a variable):

```
uom.meter.values[_measured_value].value=10
```

Sample curl read command (note that `:measured_value` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/meter/values/:measured_value/value/"
```

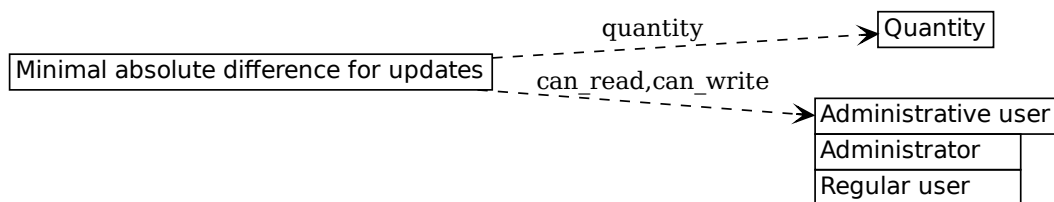
⇒

2

[Browse more samples](#)

13.4 Measured value: Minimal absolute difference for updates

number	meter/values/S/update_absolute_difference/
Requested (advisory) minimum absolute difference for value updates	



The value represents [quantity](#).

The value is subject to the following constraints: [the value](#) is greater or equal to 0

The value is unconditionally set to 0 on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample requests read command (note that `_measured_value` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/meter/values/'+_measured_value ↵
↵ '+/update_absolute_difference/', auth=auth, headers=headers).json())
```

⇒

0.001

Sample JS request read command (note that `_measured_value` is a variable):

```
request.get({url:"meter/values/"+_measured_value+"/update_absolute_difference/"}, ↵
↵ function(error, response, body) {console.log(body)});
```

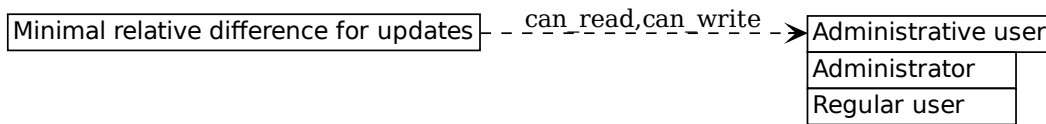
⇒

0.0009

[Browse more samples](#)

13.5 Measured value: Minimal relative difference for updates

number	meter/values/S/update_relative_difference/
Requested (advisory) minimum relative difference for value updates	



The value represents ratio, which is dimensionless.

To convert to percents, multiply by 100.

To convert from percents, divide by 100.

The value is subject to the following constraints: all of the following is true:

- [the value](#) is greater or equal to 0
- [the value](#) is less than 1

The value is unconditionally set to 0 on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample `curl` read command (note that `:measured_value` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/meter/values/:measured_value/update_relative_difference/"
```

⇒

9e-06

Sample `uom` library read command (note that `_measured_value` is a variable):

```
print(uom.dump(uom.meter.values[_measured_value].update_relative_difference))
```

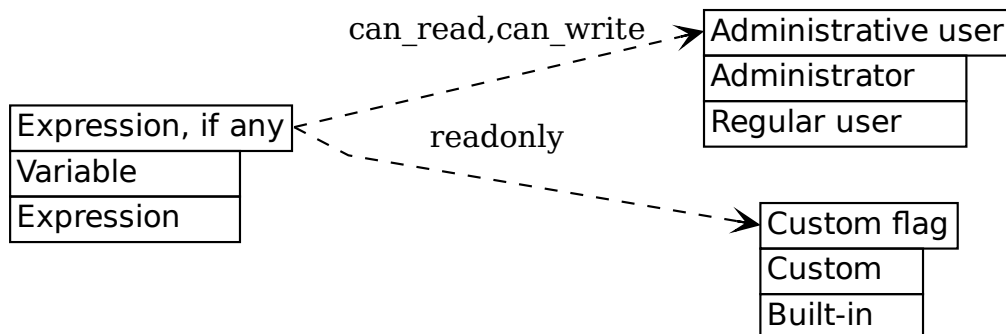
⇒

0.08

[Browse more samples](#)

13.6 Measured value: Expression, if any

sum (optional string)	meter/values/S/expression/
Expression governing the value, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum does not support direct modification if not [custom flag](#).

This sum represents a value in persistent storage.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant null	Variable	The value can be modified arbitrarily
string	Expression	Expression governing the value

Sample CLI write command (note that `measured_value` is a variable):

```
uom set "meter/values/${measured_value}/expression" "null"
```

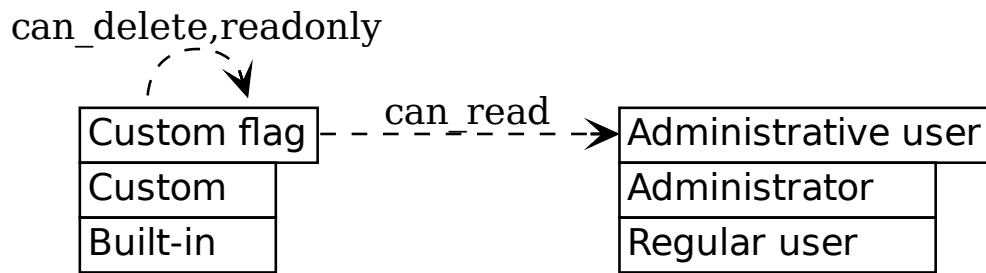
Sample `uom` library write command (note that `_measured_value` is a variable):

```
uom.meter.values[_measured_value].expression=null
```

[Browse more samples](#)

13.7 Measured value: Custom flag

sum (boolean)	meter/values/S/custom/
Flag indicating whether the value is custom	



The value is unconditionally set to `true` on creation and doesn't have to be supplied (if it is, it must match)

Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Custom	The value is custom and can be modified freely
constant false	Built-in	The value is built-in and only the hardware can modify it

Sample `requests` read command (note that `_measured_value` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/meter/values/'+_measured_value
    ↪ + '/custom/', auth=auth, headers=headers).json())
```

⇒

```
{ }
```

Sample `curl` read command (note that `:measured_value` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
    ↪ restapi/meter/values/:measured_value/custom/"
```

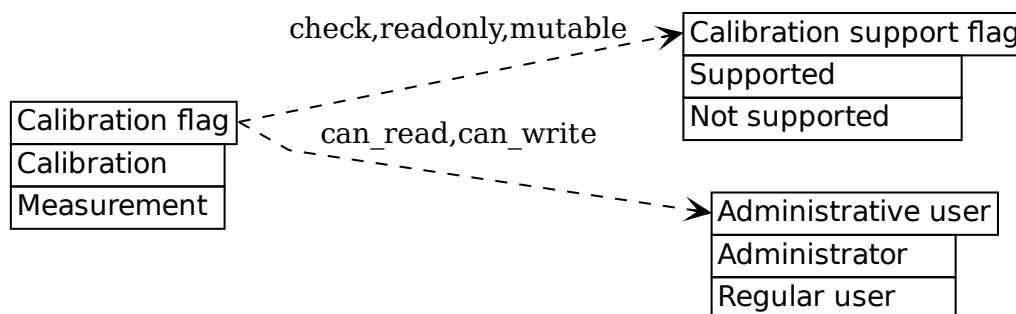
⇒

```
[ ]
```

[Browse more samples](#)

13.8 Measured value: Calibration flag

sum (boolean)	meter/values/S/in_calibration/
Flag indicating whether the value is being calibrated	



The value is subject to the following constraints: any of the following is true:

- [calibration support flag](#)
- not [the value](#)

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum does not support direct modification if not [calibration support flag](#).

This sum can change as if by itself or indirectly because of other actions if [calibration support flag](#).

This sum can assume the following values:

constant true	Calibration	The value is being calibrated (it can be updated to match external reference)
constant false	Measurement	The value is being measured

Sample `curl` write command (note that `:measured_value` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/
↵ json" -H "Accept: application/json" --data-binary "true" "http
↵ ://192.168.0.100/restapi/meter/values/:measured_value/in_calibration/"
```

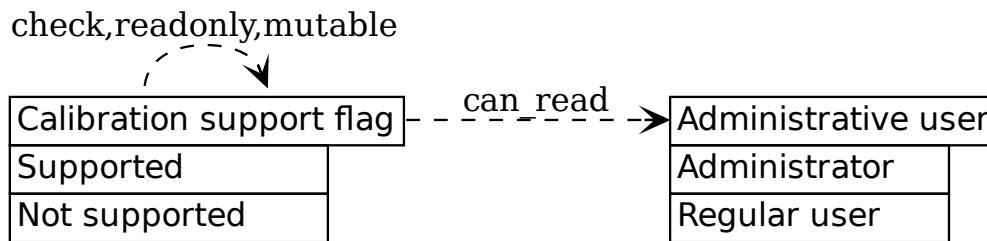
Sample JS request write command (note that `_measured_value` is a variable):

```
request.put({url:"meter/values/"+_measured_value+"/in_calibration/",body:false});
```

[Browse more samples](#)

13.9 Measured value: Calibration support flag

sum (boolean)	meter/values/S/supports_calibration/
Flag indicating whether calibrating the value is supported	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Supported	The value can be calibrated
constant false	Not supported	There is no support for calibrating the value, or it does not make sense to

Sample CLI read command (note that `measured_value` is a variable):

```
uom get "meter/values/${measured_value}/supports_calibration"
```

⇒

```
true
```

Sample uom library read command (note that `_measured_value` is a variable):

```
print(uom.dump(uom.meter.values[_measured_value].supports_calibration))
```

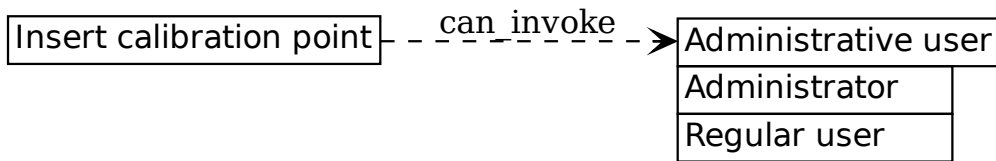
⇒

```
false
```

[Browse more samples](#)

13.10 Measured value: Insert calibration point

call	meter/values/S/insert_calibration_point/
Specify custom calibration point, possibly overriding measurements	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- not `../in_calibration`

The call accepts the following arguments:

1. Kind: Standard, Identity or Current
2. Value: number
3. Weight: number
4. Derivative: number
5. Derivative weight: number

The call returns the following results:

1. Empty result: null

Sample CLI invocation (note that `measured_value` is a variable):

```
uom invoke "meter/values/${measured_value}/insert_calibration_point" "\"identity" ↵
↵ "\" "103" "8.2" "-2.4" "1.5"
```

⇒

null

Sample uom library invocation (note that `_measured_value` is a variable):

```
print(uom.dump(uom.meter.values[_measured_value].insert_calibration_point(" ↵
↵ current",11,3.5,-0.3,7.3)))
```

⇒

null

[Browse more samples](#)

13.10.1 Kind

sum (enumerated string)	meter/values/S/insert_calibration_point/arguments: 1/
Kind of calibration point	

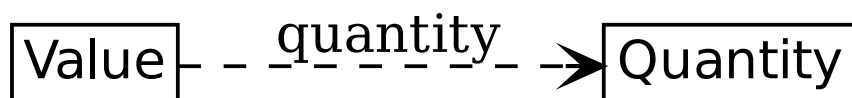
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant "standard"	Standard	The point supplies the calibrated value
constant "identity"	Identity	Assume the calibration function is the identity in point
constant "current"	Current	Assume the calibration function keeps current value in point

13.10.2 Value

number	meter/values/S/insert_calibration_point/arguments: 2/
Calibrated value	



The value represents [quantity](#).

This number does not correspond to an actual resource.

13.10.3 Weight

number	meter/values/S/insert_calibration_point/arguments: 3/
Weight of the calibration point	

The value represents ratio, which is dimensionless.

To convert to percents, multiply by 100.

To convert from percents, divide by 100.

The value is subject to the following constraints: [the value](#) is greater or equal to 0

This number does not correspond to an actual resource.

13.10.4 Derivative

number	meter/values/S/insert_calibration_point/arguments: 4/
Derivative value in the calibration point	

The value represents ratio, which is dimensionless.

To convert to percents, multiply by 100.

To convert from percents, divide by 100.

This number does not correspond to an actual resource.

13.10.5 Derivative weight

number	meter/values/S/insert_calibration_point/arguments: 5/
Weight of derivative value in the calibration point	

The value represents ratio, which is dimensionless.

To convert to percents, multiply by 100.

To convert from percents, divide by 100.

The value is subject to the following constraints: [the value](#) is greater or equal to 0

This number does not correspond to an actual resource.

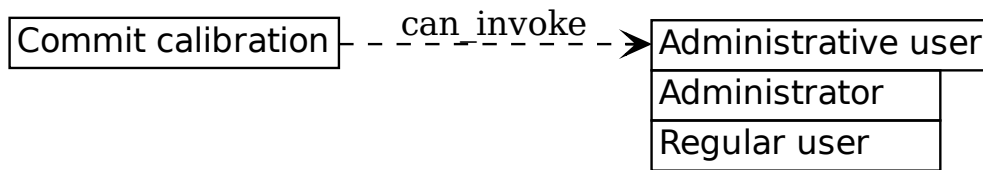
13.10.6 Empty result

constant null	meter/values/S/insert_calibration_point/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

13.11 Measured value: Commit calibration

call	meter/values/S/commit_calibration/
Save calibration data to persistent storage	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- not `../in_calibration`

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Empty result: null

Sample `curl` invocation (note that `:measured_value` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
    ↵ "Accept: application/json" --data-binary "[]" "http://192.168.0.100/ ↵
    ↵ restapi/meter/values/:measured_value/commit_calibration/"
```

⇒

null

Sample CLI invocation (note that `measured_value` is a variable):

```
uom invoke "meter/values/${measured_value}/commit_calibration"
```

⇒

null

[Browse more samples](#)

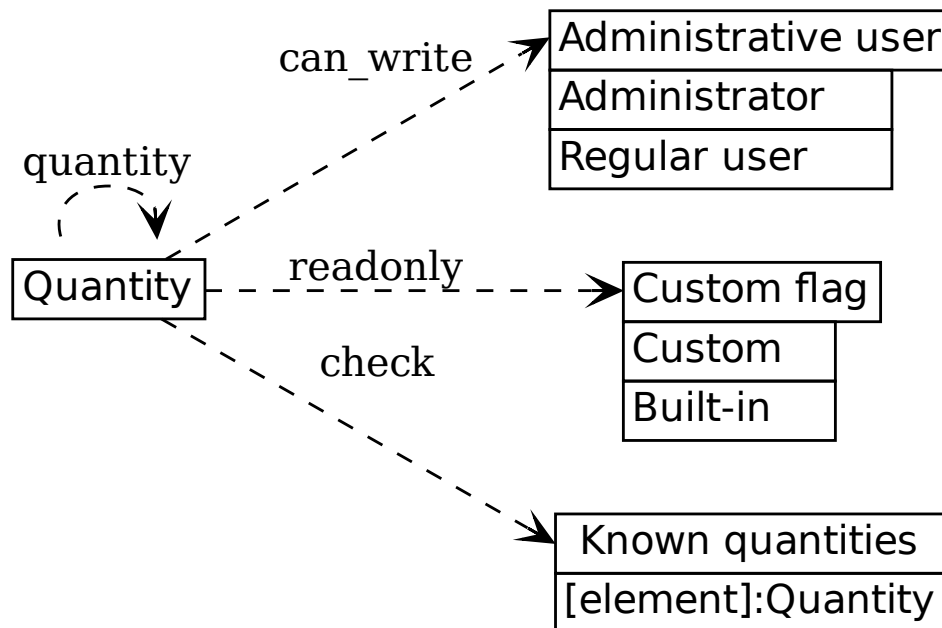
13.11.1 Empty result

constant null	meter/values/S/commit_calibration/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

13.12 Measured value: Quantity

string	meter/values/S/quantity/
Quantity of the value	



The value is subject to the following constraints: [known quantities\[the value\]](#)

Changing the value is denied if not [administrative user](#)

This string does not support direct modification if not [custom flag](#).

This string represents a value in persistent storage.

Sample CLI read command (note that `measured_value` is a variable):

```
uom get "meter/values/${measured_value}/quantity"
```

⇒

```
"voltage"
```

Sample uom library read command (note that `_measured_value` is a variable):

```
print(uom.dump(uom.meter.values[_measured_value].quantity))
```

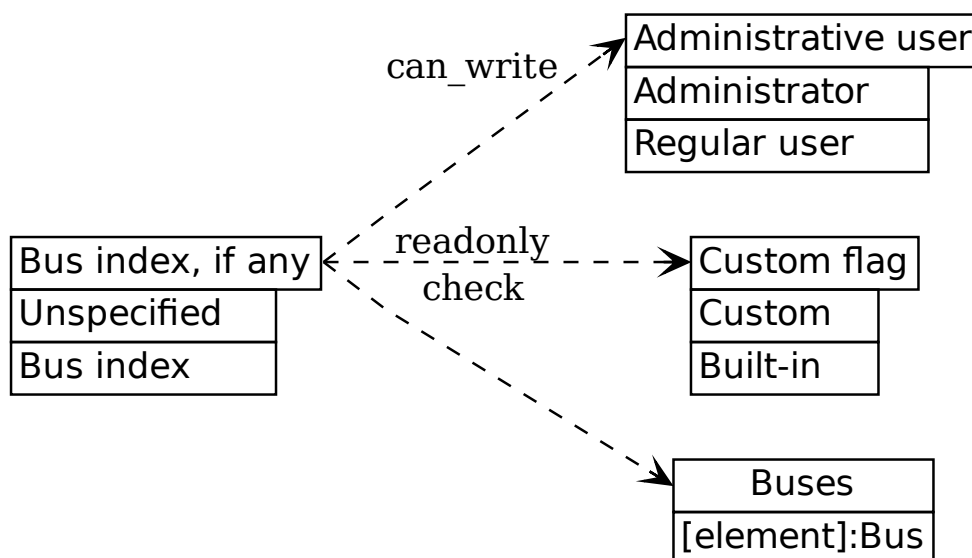
⇒

```
"voltage"
```

[Browse more samples](#)

13.13 Measured value: Bus index, if any

sum (optional number)	meter/values/S/bus/
Index of bus being measured, if any	



Changing the value is denied if not [administrative user](#)

This sum does not support direct modification if not [custom flag](#).

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	Unspecified	The value is not related to a bus	
number	Bus index	Index of bus being measured	buses[the value]

Sample `requests` read command (note that `__measured_value` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/meter/values/'+__measured_value
    ↪ ↪ '+ '/bus/', auth=auth, headers=headers).json())
```

⇒

1

Sample `uom` library read command (note that `__measured_value` is a variable):

```
print(uom.dump(uom.meter.values[__measured_value].bus))
```

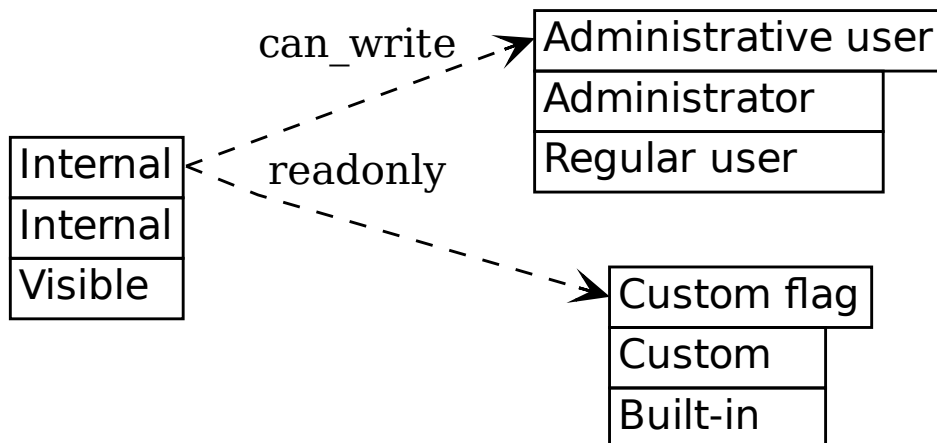
⇒

null

[Browse more samples](#)

13.14 Measured value: Internal

sum (boolean)	meter/values/S/internal/
Flag indicating whether this value is internal	



Changing the value is denied if not [administrative user](#)

This sum does not support direct modification if not [custom flag](#).

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Internal	The value is internal and should not matter to users
constant false	Visible	The value should be visible to users

Sample `requests` write command (note that `_measured_value` is a variable):

```
requests.put('http://192.168.0.100/restapi/meter/values/'+_measured_value+'/' ↵
↵ internal/', auth=auth, headers=headers, json=True)
```

Sample `curl` read command (note that `:measured_value` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/meter/values/:measured_value/internal/"
```

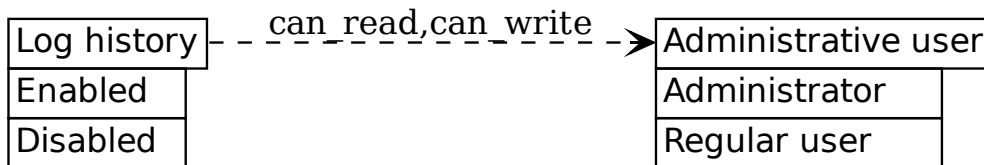
⇒

true

[Browse more samples](#)

13.15 Measured value: Log history

sum (boolean)	meter/values/S/log_history/
Flag indicating whether the value should be logged to the history	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample uom library read command (note that `_measured_value` is a variable):

```
print(uom.dump(uom.meter.values[_measured_value].log_history))
```

⇒

```
true
```

Sample JS request read command (note that `_measured_value` is a variable):

```
request.get({url:"meter/values/"+_measured_value+"/log_history/"},function(error, ↵
    ↵ response,body) {console.log(body)});
```

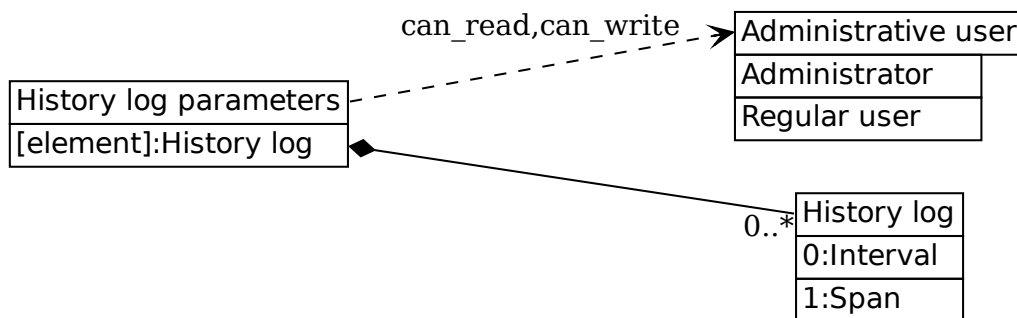
⇒

```
true
```

[Browse more samples](#)

13.16 Measured value: History log parameters

array	meter/values/S/history_parameters/
Configuration of history logs sampling intervals and timespans	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array is composite, i.e. is modified as a whole.

This array represents a value in persistent storage.

This array can change as if by itself or indirectly because of other actions.

This array contains [History log](#) elements.

Sample `curl` read command (note that `:measured_value` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/meter/values/:measured_value/history_parameters/"
```

⇒

```
[[300,86400],[3600,1209600],[86400,31536000]]
```

Sample CLI read command (note that `measured_value` is a variable):

```
uom get "meter/values/${measured_value}/history_parameters"
```

⇒

```
[[300,86400],[3600,1209600],[86400,31536000]]
```

[Browse more samples](#)

13.16.1 History log

tuple	meter/values/S/history_parameters/N/
History log settings	

This tuple is a part of a composite value which is modified as a whole.

This tuple contains the following items:

1	Interval
2	Span

Sample curl write command (note that `:measured_value` and `:history_log_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "[300,86400]" "http ↵
↵ ://192.168.0.100/restapi/meter/values/:measured_value/history_parameters/: ↵
↵ history_log_index/"
```

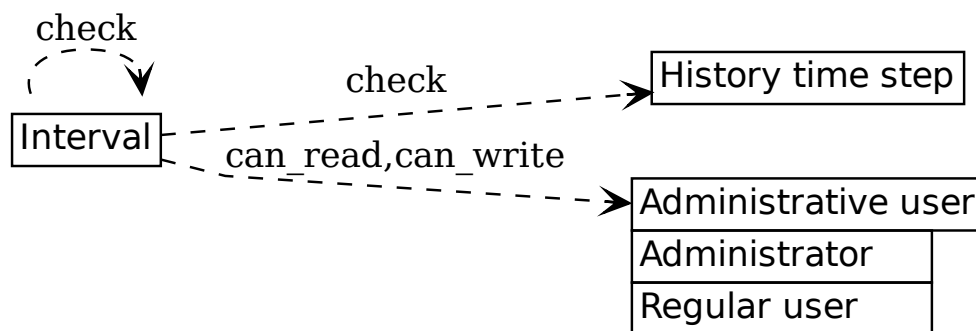
Sample uom library write command (note that `_measured_value` and `_history_log_index` are variables):

```
uom.meter.values[_measured_value].history_parameters[_history_log_index ↵
↵ ]={300,86400}
```

[Browse more samples](#)

number	meter/values/S/history_parameters/N/1/
Time interval between two consecutive history samples (changes will trigger history rebuilding and may cause adjustments to time)	

13.16.1.1 Interval



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is greater than 0
- [the value](#) to the power of [history time step](#) is equal to 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

This number represents a value in persistent storage.

This number can change as if by itself or indirectly because of other actions.

Sample `requests` write command (note that `_measured_value` and `_history_log_index` are variables):

```
requests.put('http://192.168.0.100/restapi/meter/values/'+_measured_value+'/' ↵
            ↵ history_parameters/'+str(_history_log_index)+'0/',auth=auth,headers= ↵
            ↵ headers,json=300)
```

Sample `uom` library read command (note that `_measured_value` and `_history_log_index` are variables):

```
print(uom.dump(uom.meter.values[_measured_value].history_parameters[ ↵
            ↵ _history_log_index][1]))
```

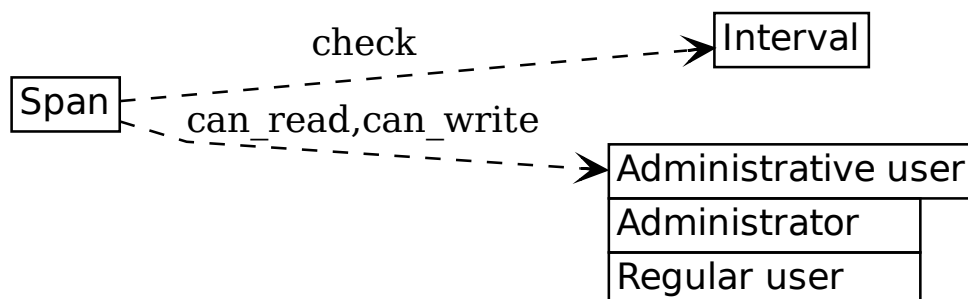
⇒

3600

[Browse more samples](#)

number	meter/values/S/history_parameters/N/2/
Time span covered by history fragment (changes will trigger history rebuilding)	

13.16.1.2 Span



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: all of the following is true:

- the value is greater than 0
- the value to the power of interval is equal to 0

Retrieving the value is denied if not administrative user

Changing the value is denied if not administrative user

This number is a part of a composite value which is modified as a whole.

This number represents a value in persistent storage.

This number can change as if by itself or indirectly because of other actions.

Sample uom library write command (note that `_measured_value` and `_history_log_index` are variables):

```
uom.meter.values[_measured_value].history_parameters[_history_log_index ↵
↵ ] [2]=31536000
```

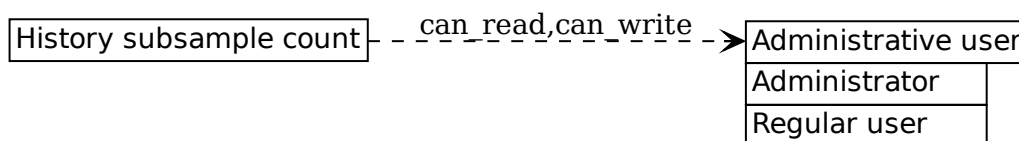
Sample JS request write command (note that `_measured_value` and `_history_log_index` are variables):

```
request.put ({url:"meter/values/"+_measured_value+"/history_parameters/"+ ↵
↵ _history_log_index.toString()+"/1/",body:31536000});
```

[Browse more samples](#)

13.17 Measured value: History subsample count

number	meter/values/S/history_subsample_count/
Number of measurements per history sample	



The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- the value is an integer
- the value is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample uom library read command (note that `_measured_value` is a variable):

```
print(uom.dump(uom.meter.values[_measured_value].history_subsample_count))
```

⇒

29

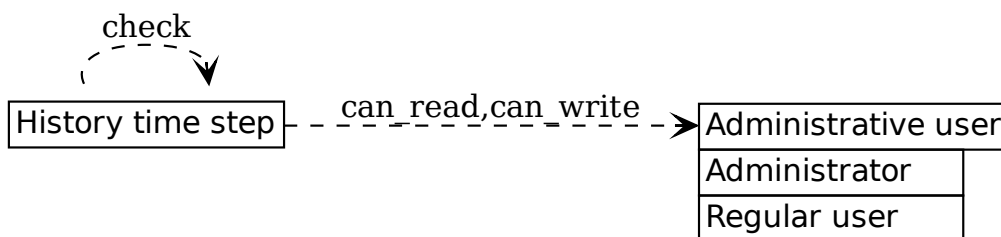
Sample requests write command (note that `_measured_value` is a variable):

```
requests.put('http://192.168.0.100/restapi/meter/values/'+_measured_value+'/' + ↵
            ↵ history_subsample_count/', auth=auth, headers=headers, json=23)
```

[Browse more samples](#)

13.18 Measured value: History time step

number	meter/values/S/history_time_step/
Minimal amount of time between saved history samples (changes will trigger history rebuilding and may cause adjustments to histo	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample CLI read command (note that `measured_value` is a variable):

```
uom get "meter/values/${measured_value}/history_time_step"
```

⇒

13

Sample uom library read command (note that `_measured_value` is a variable):

```
print(uom.dump(uom.meter.values[_measured_value].history_time_step))
```

⇒

17

[Browse more samples](#)

13.19 Value history record: Value history

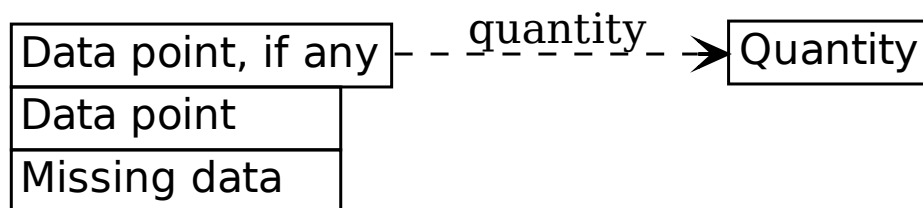
array	meter/values/S/get_history/results: 1/3/
Historical data points	

This array does not correspond to an actual resource.

This array contains [Data point, if any](#) elements.

13.19.1 Data point, if any

sum (variant)	meter/values/S/get_history/results: 1/3/N/
Historical data point, if any	

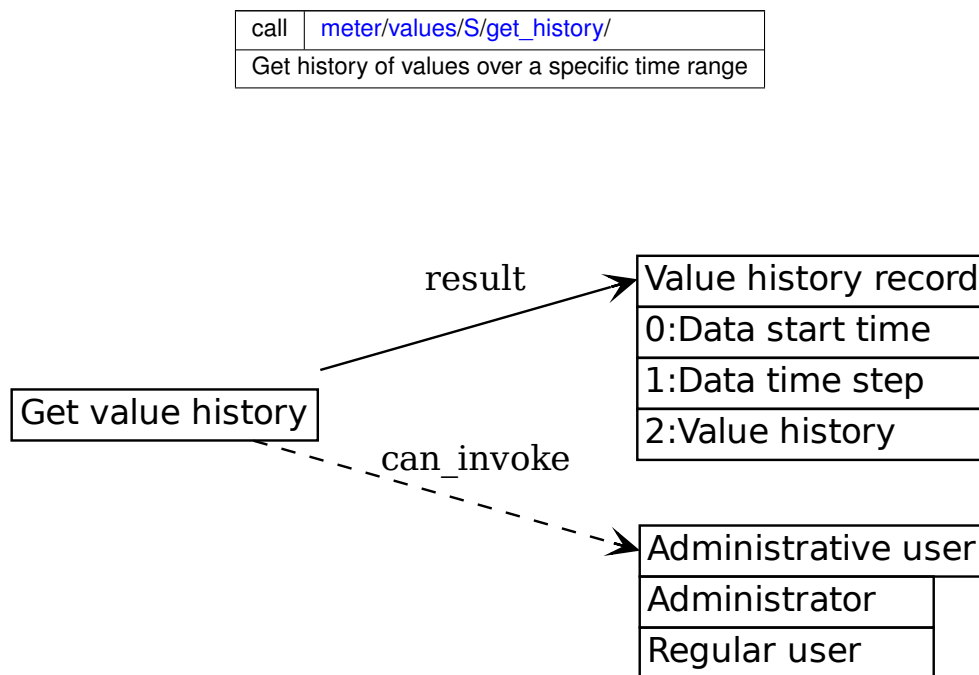


This sum does not correspond to an actual resource.

This sum can assume the following values:

number	Data point	Historical data point, whose corresponding time is determined by array position
constant false	Missing data	Indication that data for the time determined by array position could not be found

13.20 Measured value: Get value history



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

1. Data start time: number
2. Data end time: number
3. Data time step: number

The call returns the following results:

1. Value history record: (number,number,array of "Data point or Missing data")

Sample uom library invocation (note that `_measured_value` is a variable):

```
print(uom.dump(uom.meter.values[_measured_value].get_history ↵
↵ (1566227113,1566237913,3600)))
```

⇒

```
{1566226800, 3600, {false, 105, false}}
```

Sample requests invocation (note that `_measured_value` is a variable):

```
print(requests.post('http://192.168.0.100/restapi/meter/values/'+_measured_value ↵
↵ +'/get_history/', auth=auth, headers=headers, json=[1559182456, 1559182636, ↵
↵ 60]).json())
```

⇒

```
[1559182440, 60, [0, 9, 7]]
```

[Browse more samples](#)

13.20.1 Data start time

number	meter/values/S/get_history/arguments: 1/
Requested timestamp of the first data point to retrieve	

The value represents time, the standard unit of which is the second (s).

This number does not correspond to an actual resource.

13.20.2 Data end time

number	meter/values/S/get_history/arguments: 2/
Requested timestamp of the last data point to retrieve	

The value represents time, the standard unit of which is the second (s).

This number does not correspond to an actual resource.

13.20.3 Data time step

number	meter/values/S/get_history/arguments: 3/
Requested time step between succeeding data points	

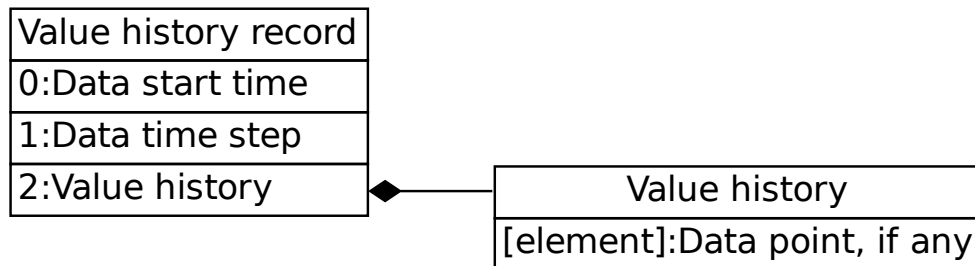
The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater or equal to 0

This number does not correspond to an actual resource.

13.20.4 Value history record

tuple	meter/values/S/get_history/results: 1/
Historical measured values	



This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Data start time
2	Data time step
3	Value history

number	meter/values/S/get_history/results: 1/1/
Timestamp of the first retrieved historical data point (may differ from requested start timestamp)	

13.20.4.1 Data start time The value represents time, the standard unit of which is the second (s).

This number does not correspond to an actual resource.

number	meter/values/S/get_history/results: 1/2/
Time step between succeeding retrieved historical data points (may differ from requested time step)	

13.20.4.2 Data time step The value represents time, the standard unit of which is the second (s).

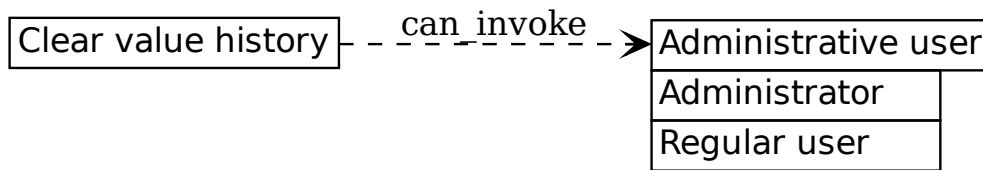
The value is subject to the following constraints: [the value](#) is greater or equal to 0

This number does not correspond to an actual resource.

See also [Value history record: Value history](#)

13.21 Measured value: Clear value history

call	meter/values/S/clear_history/
Clear the complete history of values, and reset value to zero	



Performing the function call is denied if not [administrative user](#)

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Empty result: null

Sample `curl` invocation (note that `:measured_value` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
↵ "Accept: application/json" --data-binary "[]" "http://192.168.0.100/ ↵
↵ restapi/meter/values/:measured_value/clear_history/"
```

⇒

null

Sample CLI invocation (note that `measured_value` is a variable):

```
uom invoke "meter/values/${measured_value}/clear_history"
```

⇒

null

[Browse more samples](#)

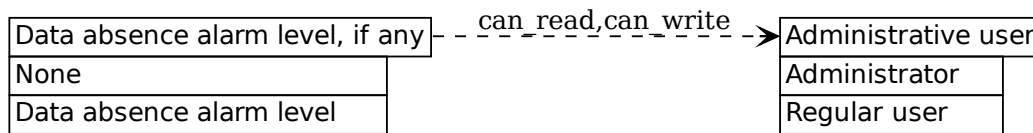
13.21.1 Empty result

constant null	meter/values/S/clear_history/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

13.22 Measured value: Data absence alarm level, if any

sum (optional number)	meter/values/S/data_absence_alarm_level/
Alarm level for absence of data, if any	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No alarm is generated on absence of data
number	Data absence alarm level	Alarm level for absence of data

Sample requests write command (note that `_measured_value` is a variable):

```
requests.put('http://192.168.0.100/restapi/meter/values/'+_measured_value+'/' +↵
↵ data_absence_alarm_level/', auth=auth, headers=headers, json=None)
```

Sample requests read command (note that `_measured_value` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/meter/values/'+_measured_value +↵
↵ +'/data_absence_alarm_level/', auth=auth, headers=headers).json())
```

⇒

None

[Browse more samples](#)

13.23 Measured value: Data absence alarm period, if any

sum (optional number)	meter/values/S/data_absence_alarm_period/
The time interval after which data absence alarm events should be repeated, if any	

Data absence alarm period, if any	-- can_read, can_write -->	Administrative user
None		Administrator
Data absence alarm period		Regular user

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	The data absence alarm event is generated only once on data loss and is not repeated
number	Data absence alarm period	The time interval after which data absence alarm events should be repeated the value is greater than 0

Sample CLI read command (note that `measured_value` is a variable):

```
uom get "meter/values/${measured_value}/data_absence_alarm_period"
```

⇒

```
null
```

Sample uom library write command (note that `_measured_value` is a variable):

```
uom.meter.values[_measured_value].data_absence_alarm_period=3
```

[Browse more samples](#)

13.24 Measured value: Lowest interval alarm level, if any

sum (optional number)	meter/values/S/lowest_interval_alarm_level/
Alarm level for the lowest value interval, if any	

Lowest interval alarm level, if any	-- can_read, can_write -->	Administrative user
None		Administrator
Lowest interval alarm level		Regular user

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No alarm is generated for the lowest value interval
number	Lowest interval alarm level	Alarm level for the lowest value interval

Sample `uom` library read command (note that `_measured_value` is a variable):

```
print(uom.dump(uom.meter.values[_measured_value].lowest_interval_alarm_level))
```

⇒

null

Sample `requests` write command (note that `_measured_value` is a variable):

```
requests.put('http://192.168.0.100/restapi/meter/values/'+_measured_value+'/' + ↵
↵ lowest_interval_alarm_level/', auth=auth, headers=headers, json=3)
```

[Browse more samples](#)

13.25 Measured value: Lowest interval alarm period, if any

sum (optional number)	meter/values/S/lowest_interval_alarm_period/
The time interval after which lowest interval alarm events should be repeated, if any	

Lowest interval alarm period, if any	— <u>can read, can write</u> —>	Administrative user
None		Administrator
Lowest interval alarm period		Regular user

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	The alarm event is generated only once at lowest interval entry and is not repeated	
number	Lowest interval alarm period	The time interval after which lowest interval alarm events should be repeated	the value is greater than 0

Sample curl write command (note that :measured_value is a URL template argument):

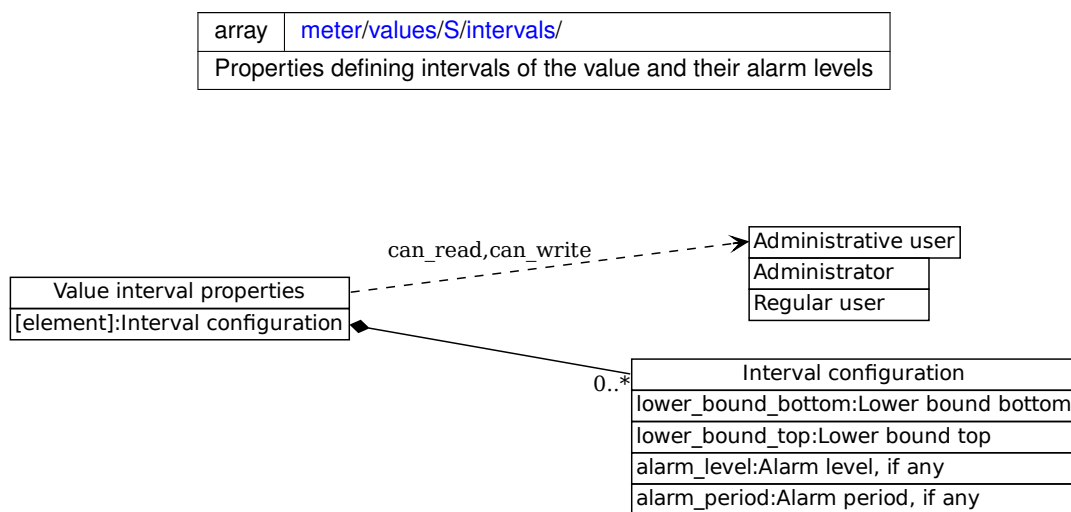
```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "1" "http ↵
↵ ://192.168.0.100/restapi/meter/values/:measured_value/ ↵
↵ lowest_interval_alarm_period/"
```

Sample JS request write command (note that _measured_value is a variable):

```
request.put ({url:"meter/values/"+_measured_value+"/lowest_interval_alarm_period ↵
↵ /",body:7});
```

[Browse more samples](#)

13.26 Measured value: Value interval properties



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This array is composite, i.e. is modified as a whole.

This array contains [Interval configuration](#) elements.

Sample CLI interval configuration creation command (note that measured_value is a variable):

```
uom insert "meter/values/${measured_value}/intervals/3" "{\"lower_bound_bottom ↵
↵ \":388,\"alarm_level\":5,\"lower_bound_top\":396,\"alarm_period\":8}"
```

Sample requests interval configuration creation command (note that _measured_value is a variable):

```
requests.post ('http://192.168.0.100/restapi/meter/values/'+_measured_value+'/ ↵
↵ intervals/', auth=auth, headers=headers, json={'lower_bound_bottom': ↵
↵ 24.666666666667, 'alarm_level': 6, 'lower_bound_top': 25.166666666667, ' ↵
↵ alarm_period': None})
```

[Browse more samples](#)

13.26.1 Interval configuration

object	meter/values/S/intervals/N/
Configuration of a value interval	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

lower_bound_bottom	Lower bound bottom
lower_bound_top	Lower bound top
alarm_level	Alarm level, if any
alarm_period	Alarm period, if any

Sample requests write command (note that `_measured_value` and `_interval_configuration_index` are variables):

```
requests.put('http://192.168.0.100/restapi/meter/values/'+_measured_value+'/' ↵
    ↵ intervals/'+str(_interval_configuration_index)+'/',auth=auth,headers= ↵
    ↵ headers,json={'lower_bound_bottom': 342, 'alarm_level': 8, 'lower_bound_top' ↵
    ↵ ': 351, 'alarm_period': None})
```

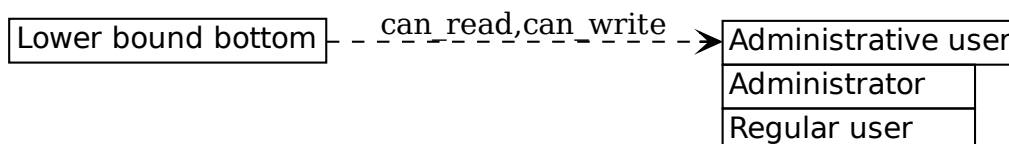
Sample JS request deletion command (note that `_measured_value` and `_interval_configuration_index` are variables):

```
request.delete({url:"meter/values/"+_measured_value+"/intervals/"+ ↵
    ↵ _interval_configuration_index.toString()+"/"}) ;
```

[Browse more samples](#)

number	meter/values/S/intervals/N/lower_bound_bottom/
The bottom of the lower bound of this interval; value must be lower to be considered outside this interval	

13.26.1.1 Lower bound bottom



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

This number represents a value in persistent storage.

Sample curl read command (note that `:measured_value` and `:interval_configuration_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/meter/values/:measured_value/intervals/: ↵
↵ interval_configuration_index/lower_bound_bottom/"
```

⇒

159.166666666667

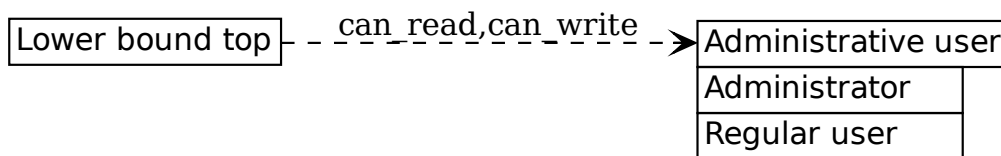
Sample requests write command (note that `_measured_value` and `_interval_configuration_index` are variables):

```
requests.put('http://192.168.0.100/restapi/meter/values/'+_measured_value+' ↵
↵ intervals/'+str(_interval_configuration_index)+'lower_bound_bottom/', auth= ↵
↵ auth, headers=headers, json=325)
```

[Browse more samples](#)

number	meter/values/S/intervals/N/lower_bound_top/
The top of the lower bound of this interval; value must be higher to be considered inside this interval	

13.26.1.2 Lower bound top



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number is a part of a composite value which is modified as a whole.

This number represents a value in persistent storage.

Sample JS request write command (note that `_measured_value` and `_interval_configuration_index` are variables):

```
request.put({url:"meter/values/"+_measured_value+"/intervals/"+ ↵
↵ _interval_configuration_index.toString()+"/lower_bound_top/", body ↵
↵ :590.833333333333});
```

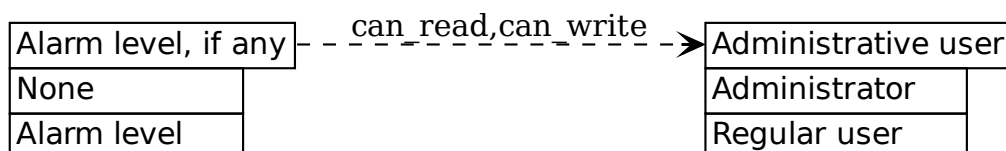
Sample uom library write command (note that `_measured_value` and `_interval_configuration_index` are variables):

```
uom.meter.values[_measured_value].intervals[_interval_configuration_index]. ↵
↵ lower_bound_top=15.675675675676
```

[Browse more samples](#)

sum (optional number)	meter/values/S/intervals/N/alarm_level/
The level of importance assigned to this interval, if any	

13.26.1.3 Alarm level, if any



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	No alarm is generated for this value interval
number	Alarm level	The level of importance assigned to this interval

Sample requests read command (note that `_measured_value` and `_interval_configuration_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/meter/values/'+_measured_value ↵
    ↵ +' /intervals/'+str(_interval_configuration_index)+' /alarm_level/', auth=auth ↵
    ↵ , headers=headers).json())
```

⇒

2

Sample curl write command (note that `:measured_value` and `:interval_configuration_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
    ↵ json" -H "Accept: application/json" --data-binary "1" "http ↵
    ↵ ://192.168.0.100/restapi/meter/values/:measured_value/intervals/: ↵
    ↵ interval_configuration_index/alarm_level/"
```

[Browse more samples](#)

sum (optional number)	meter/values/S/intervals/N/alarm_period/
The time interval after which alarm events should be repeated, if any	

13.26.1.4 Alarm period, if any

Alarm period, if any	can_read, can_write	Administrative user
None		Administrator
Alarm period		Regular user

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum represents a value in persistent storage.

This sum can assume the following values:

constant null	None	The alarm event is generated only once at interval entry and is not repeated while the value is in the
number	Alarm period	The time interval after which alarm events should be repeated the value is greater than 0

Sample `requests` read command (note that `_measured_value` and `_interval_configuration_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/meter/values/'+_measured_value
    ↪ + '/intervals/'+str(_interval_configuration_index)+'alarm_period/', auth=
    ↪ auth, headers=headers).json())
```

⇒

2

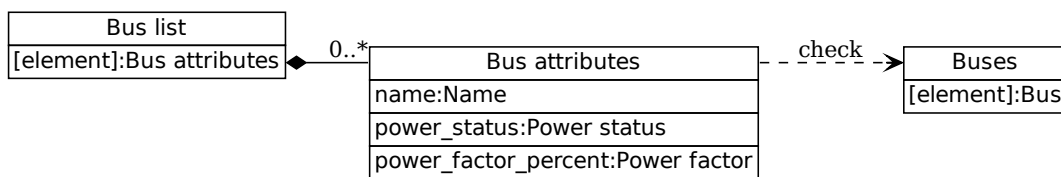
Sample `uom` library write command (note that `_measured_value` and `_interval_configuration_index` are variables):

```
uom.meter.values[_measured_value].intervals[_interval_configuration_index].
    ↪ alarm_period=null
```

[Browse more samples](#)

13.27 Bus list

array	meter/buses/
Attributes for buses	



This array does not support direct modification.

This array contains [Bus attributes](#) elements.

Creating elements in this collection is not supported.

Sample requests read command:

```
print (requests.get ('http://192.168.0.100/restapi/meter/buses/', auth=auth, headers= ↵
    ↵ headers).json())
```

⇒

```
[{'power_status': True, 'name': 'Bus A', 'power_factor_percent': 100}, {' ↵
    ↵ power_status': False, 'name': 'Bus B', 'power_factor_percent': 100}]
```

Sample uom library read command:

```
print (uom.dump (uom.meter.buses))
```

⇒

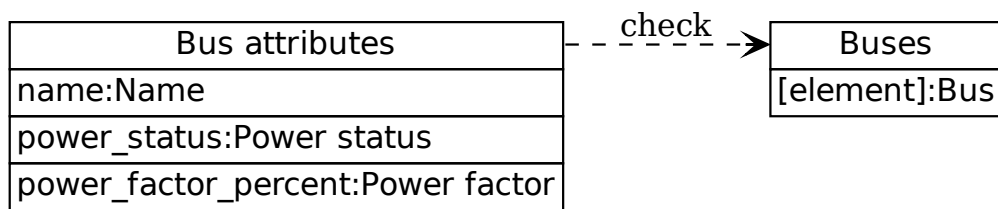
```
{ {name="Bus A", power_factor_percent=100, power_status=true}, {name="Bus B", ↵
    ↵ power_factor_percent=100, power_status=false} }
```

[Browse more samples](#)

See also [Bus list: Bus attributes](#)

13.28 Bus list: Bus attributes

object	meter/buses/N/
Attributes for a bus	



The value is subject to the following constraints: [buses\[index of the value\]](#)

This object contains the following items:

name	Name
power_status	Power status
power_factor_percent	Power factor

Sample uom library write command (note that `_bus_attributes_index` is a variable):

```
uom.meter.buses[_bus_attributes_index]={name="Bus B",power_factor_percent=100, ↵
↵ power_status=false}
```

Sample uom library read command (note that `_bus_attributes_index` is a variable):

```
print(uom.dump(uom.meter.buses[_bus_attributes_index]))
```

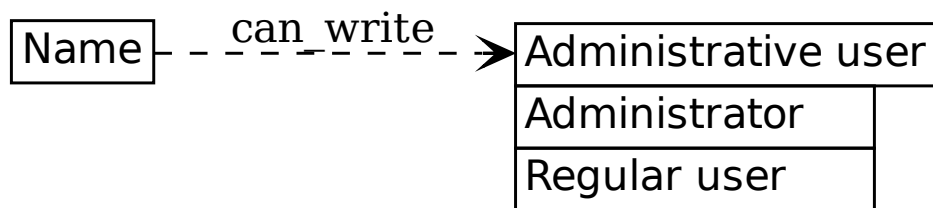
⇒

```
{name="Bus B",power_factor_percent=100,power_status=false}
```

[Browse more samples](#)

13.28.1 Name

string	meter/buses/N/name/
User-visible name of this bus	



Changing the value is denied if not [administrative user](#)

This string represents a value in persistent storage.

Sample JS request write command (note that `_bus_attributes_index` is a variable):

```
request.put ({url:"meter/buses/"+_bus_attributes_index.toString()+"/name/",body:" ↵
↵ Bus B"});
```

Sample curl read command (note that `:bus_attributes_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/meter/buses/:bus_attributes_index/name/"
```

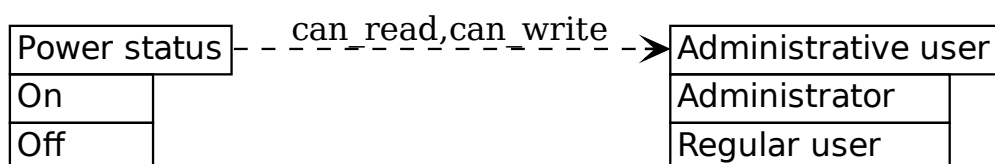
⇒

"Bus A"

[Browse more samples](#)

13.28.2 Power status

sum (boolean)	meter/buses/N/power_status/
Status of bus power	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant true	On	Bus is powered
constant false	Off	Bus is not powered

Sample CLI read command (note that `bus_attributes_index` is a variable):

```
uom get "meter/buses/${bus_attributes_index}/power_status"
```

⇒

```
true
```

Sample `requests` read command (note that `_bus_attributes_index` is a variable):

```
print (requests.get('http://192.168.0.100/restapi/meter/buses/'+str( ↵
    ↵ _bus_attributes_index)+'power_status/', auth=auth, headers=headers).json())
```

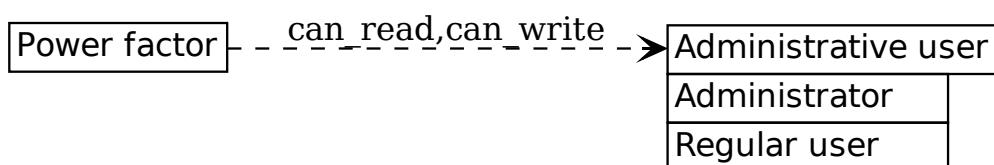
⇒

```
False
```

[Browse more samples](#)

13.28.3 Power factor

number	meter/buses/N/power_factor_percent/
Power factor for this bus	



The value is subject to the following constraints: all of the following is true:

- [the value](#) is greater or equal to 0

- the value is less or equal to 100

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number represents a value in persistent storage.

Sample JS request read command (note that `_bus_attributes_index` is a variable):

```
request.get({url:"meter/buses/"+_bus_attributes_index.toString()+"/" ↵
    ↵ power_factor_percent/"},function(error,response,body) {console.log(body)});
```

⇒

100

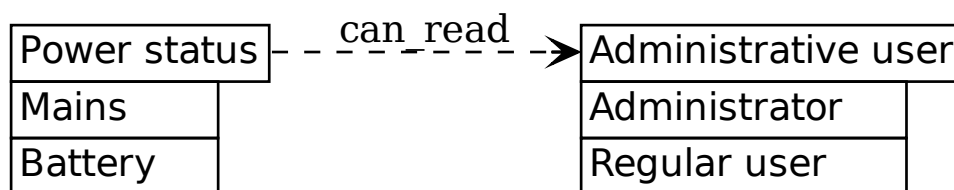
Sample curl write command (note that `:bus_attributes_index` is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
    ↵ json" -H "Accept: application/json" --data-binary "100" "http ↵
    ↵ ://192.168.0.100/restapi/meter/buses/:bus_attributes_index/ ↵
    ↵ power_factor_percent/"
```

[Browse more samples](#)

13.29 Power status

sum (boolean)	meter/power_status/
Status of unit power	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant true	Mains	Unit is powered from at least one bus, outlets can be driven
constant false	Battery	Unit is powered from the battery only, outlets cannot be driven, unit shutdown expected

Sample CLI read command:

```
uom get "meter/power_status"
```

⇒

```
true
```

Sample requests read command:

```
print (requests.get('http://192.168.0.100/restapi/meter/power_status/', auth=auth, ↵
    ↵ headers=headers).json())
```

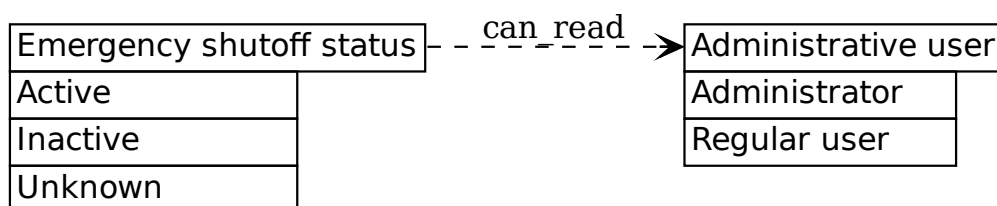
⇒

```
True
```

[Browse more samples](#)

13.30 Emergency shutoff status

sum (optional boolean)	meter/emergency_off_status/
Status of emergency shutoff	



Retrieving the value is denied if not [administrative user](#)

This sum does not support direct modification.

This sum can change as if by itself or indirectly because of other actions.

This sum can assume the following values:

constant true	Active	Emergency shutoff active, all outlets off
constant false	Inactive	Emergency shutoff inactive, normal outlet operation
constant null	Unknown	Emergency shutoff is in an unknown state, probably due to power failure, all outlets likely off

Sample uom library read command:

```
print(uom.dump(uom.meter.emergency_off_status))
```

⇒

false

Sample requests read command:

```
print(requests.get('http://192.168.0.100/restapi/meter/emergency_off_status/',  
    ↪ auth=auth,headers=headers).json())
```

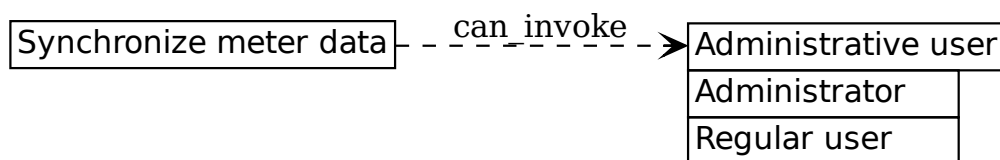
⇒

False

[Browse more samples](#)

13.31 Synchronize meter data

call	meter/synchronize/
Saves meter data to persistent storage expressly (synchronization takes place periodically even without this call)	



Performing the function call is denied if not [administrative user](#)

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Empty result: null

Sample CLI invocation:

```
uom invoke "meter/synchronize"
```

⇒

null

Sample JS request invocation:

```
request.post({url:"meter/synchronize/",body:[]});
```

⇒

null

[Browse more samples](#)

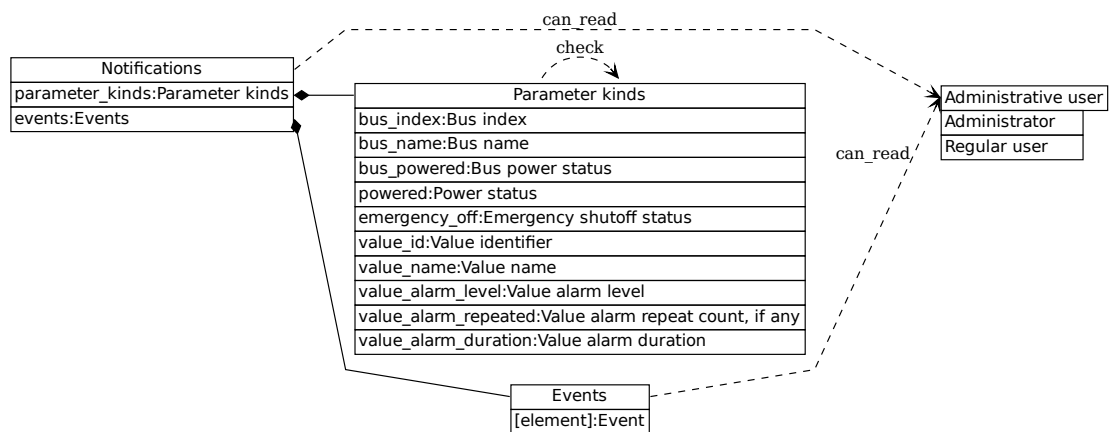
13.31.1 Empty result

constant null	meter/synchronize/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

13.32 Notifications

object	meter/notifications/
Meter status notifications	



Retrieving the value is denied if not [administrative user](#)

This object does not support direct modification.

This object contains the following items:

parameter_kinds	Parameter kinds
events	Events

Sample JS request read command:

```
request.get({url:"meter/notifications/"},function(error,response,body){console.log(body)});
```

⇒

<...>

Sample CLI read command:

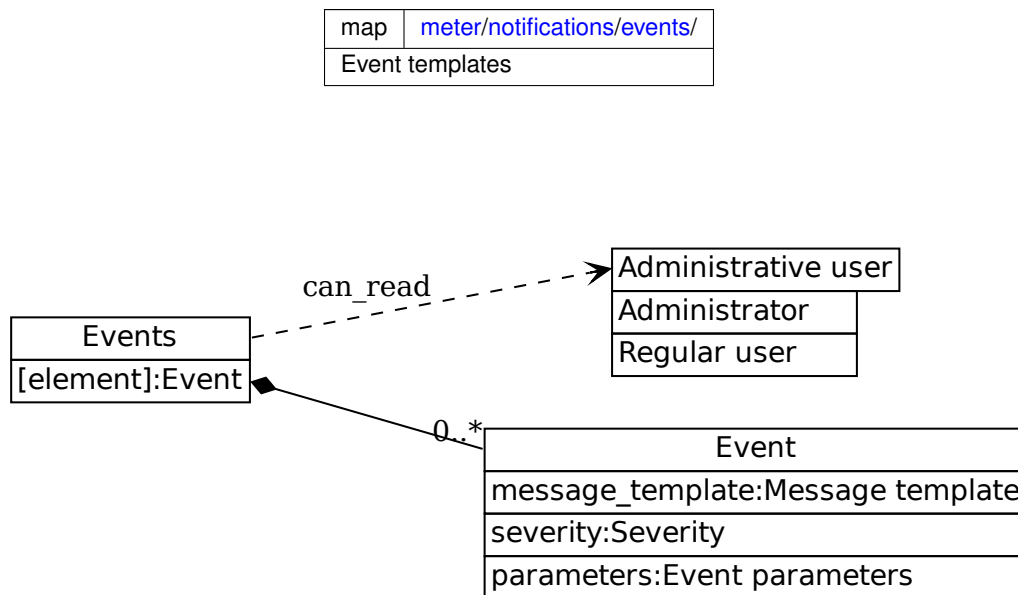
```
uom get "meter/notifications"
```

⇒

...

[Browse more samples](#)See also [Notifications: Parameter kinds](#)

13.32.1 Events

Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Event](#) elements.

Creating elements in this collection is not supported.

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/meter/notifications/events/',
    ↵ auth=auth,headers=headers).json())
```

⇒

<...>

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/
    ↵ restapi/meter/notifications/events/"
```

⇒

...

[Browse more samples](#)See also [Events: Event](#)

13.33 Notifications: Parameter kinds

object	meter/notifications/parameter_kinds/
Kinds of event parameters	

This object does not correspond to an actual resource.

This object contains the following items:

bus_index	Bus index
bus_name	Bus name
bus_powered	Bus power status
powered	Power status
emergency_off	Emergency shutoff status
value_id	Value identifier
value_name	Value name
value_alarm_level	Value alarm level
value_alarm_repeated	Value alarm repeat count, if any
value_alarm_duration	Value alarm duration

13.33.1 Bus index

number	meter/notifications/parameter_kinds/bus_index/
Index of the bus	

13.33.2 Bus name

string	meter/notifications/parameter_kinds/bus_name/
Name of the bus	

13.33.3 Bus power status

sum (boolean)	meter/notifications/parameter_kinds/bus_powered/
Status of bus power	

This sum can assume the following values:

constant true	Powered	The bus is powered
constant false	Not powered	The bus is not powered

13.33.4 Power status

sum (boolean)	meter/notifications/parameter_kinds/powered/
Status of unit power	

This sum can assume the following values:

constant true	Mains	The unit is running on mains
constant false	Battery	The unit is running on battery

13.33.5 Emergency shutoff status

sum (boolean)	meter/notifications/parameter_kinds/emergency_off/
Status of emergency shutoff	

This sum can assume the following values:

constant true	Active	All outlets off
constant false	Inactive	Normal outlet operation

13.33.6 Value identifier

string	meter/notifications/parameter_kinds/value_id/
Identifier of the value	

13.33.7 Value name

string	meter/notifications/parameter_kinds/value_name/
Name of the value	

13.33.8 Value alarm level

number	meter/notifications/parameter_kinds/value_alarm_level/
Alarm level associated with the value	

13.33.9 Value alarm repeat count, if any

sum (optional number)	meter/notifications/parameter_kinds/value_alarm_repeated/
Number of consecutive times this alarm has been sent, if any	

This sum can assume the following values:

constant null	Initial alarm	The value has just entered the interval	
number	Value alarm repeat count	Number of consecutive times this alarm has been sent	all of the following is true: • the value is an integer • the value is greater or equal to 0

13.33.10 Value alarm duration

number	meter/notifications/parameter_kinds/value_alarm_duration/
Amount of time the value has been at this alarm level	

The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater or equal to 0

13.34 Event parameters: Event parameter

object	meter/notifications/events/S/parameters/N/
Properties of a parameter associated with the event	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

id	Identifier
has_fixed_value	Fixed value flag
fixed_value	Fixed value

Sample `curl` write command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "[]" "http ↵
↵ ://192.168.0.100/restapi/meter/notifications/events/:event/parameters/: ↵
↵ event_parameter_index/"
```

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "meter/notifications/events/${event}/parameters/${event_parameter_index}"
```

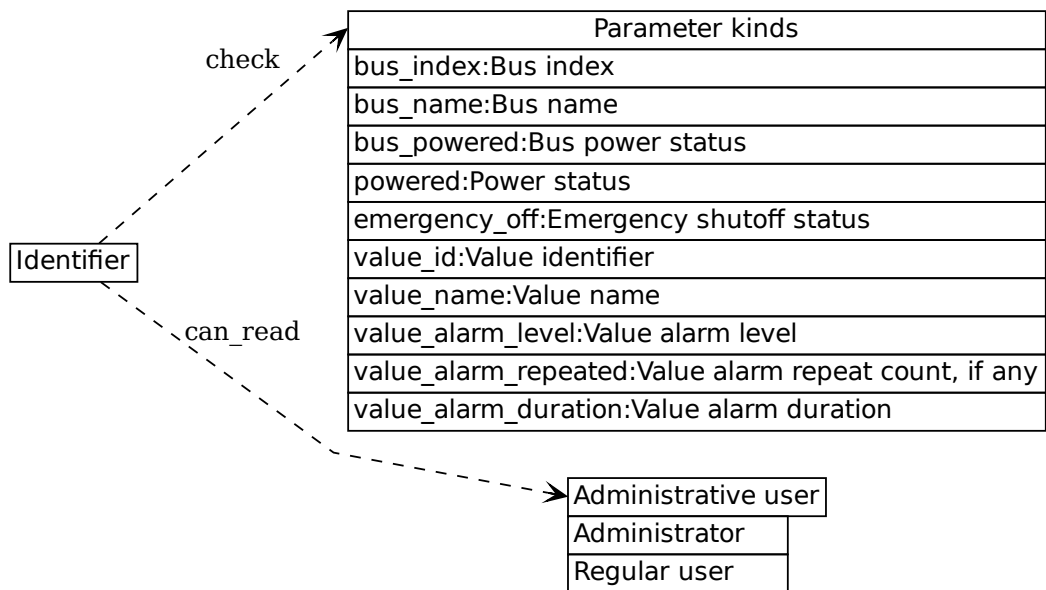
⇒

```
{"fixed_value":true,"has_fixed_value":true,"id":"emergency_off"}
```

[Browse more samples](#)

13.34.1 Identifier

string	meter/notifications/events/S/parameters/N/id/
Parameter identifier	



The value is subject to the following constraints: [parameter kinds\[the value\]](#)

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.meter.notifications.events[_event].parameters[↔
↔ _event_parameter_index].id))
```

⇒

```
"value_alarm_duration"
```

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "meter/notifications/events/${event}/parameters/${event_parameter_index}/↔
↔ id"
```

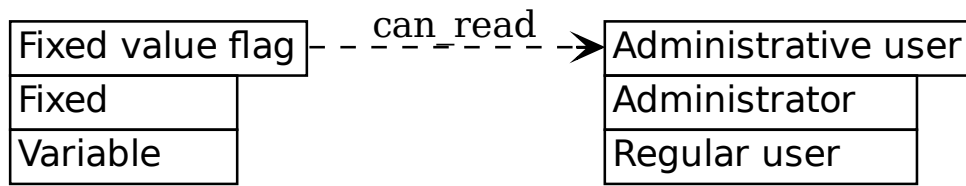
⇒

```
"powered"
```

[Browse more samples](#)

13.34.2 Fixed value flag

sum (boolean)	meter/notifications/events/S/parameters/N/has_fixed_value/
Flag indicating that the parameter's value for this event is fixed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Fixed	The value is fixed
constant false	Variable	The value is variable

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "meter/notifications/events/${event}/parameters/${event_parameter_index}/
↳ has_fixed_value" ↳
```

⇒

false

Sample requests read command (note that `_event` and `_event_parameter_index` are variables):

```
print (requests.get ('http://192.168.0.100/restapi/meter/notifications/events/' + ↳
↳ _event+ '/parameters/'+str(_event_parameter_index)+ '/has_fixed_value/', auth= ↳
↳ auth, headers=headers) . json() )
```

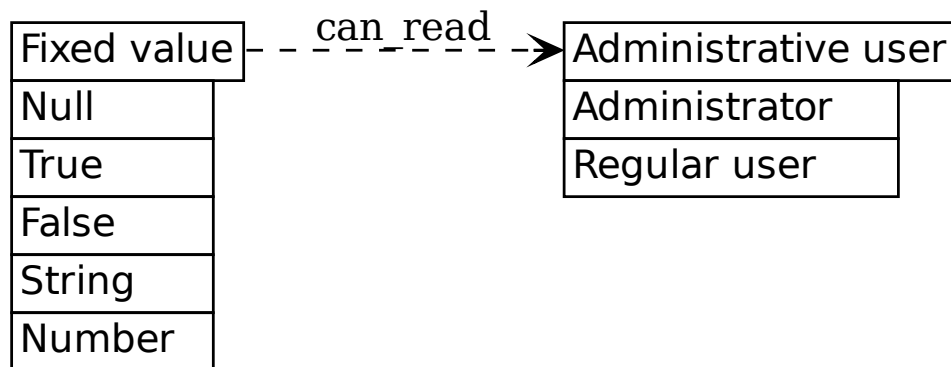
⇒

False

[Browse more samples](#)

13.34.3 Fixed value

sum (variant)	meter/notifications/events/S/parameters/N/fixed_value/
Fixed parameter value for this particular event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "meter/notifications/events/${event}/parameters/${event_parameter_index}/fixed_value"
```

⇒

true

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"meter/notifications/events/"+_event+"/parameters/"+_event_parameter_index.toString()+"/fixed_value/"},function(error,response,body){console.log(body)});
```

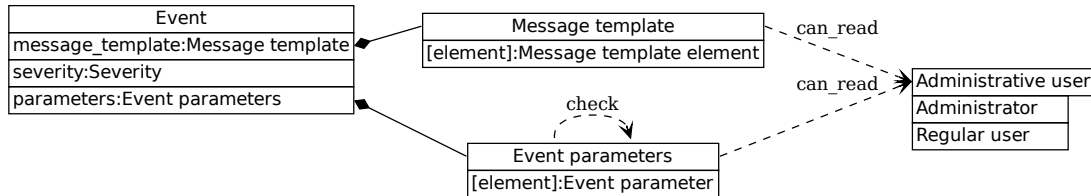
⇒

null

[Browse more samples](#)

13.35 Events: Event

object	meter/notifications/events/S/
Event template	



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

message_template	Message template
severity	Severity
parameters	Event parameters

Sample `requests` write command (note that `_event` is a variable):

```
requests.put('http://192.168.0.100/restapi/meter/notifications/events/'+_event
    ↳ + '/' , auth=auth, headers=headers, json={'severity': 6, 'message_template': ['
    ↳ running on mains'], 'parameters': [{'fixed_value': True, 'has_fixed_value':
    ↳ True, 'id': 'powered']})
```

Sample JS request read command (note that `_event` is a variable):

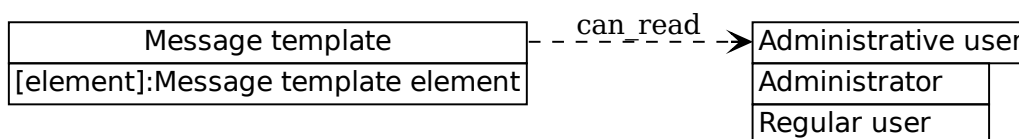
```
request.get({url:"meter/notifications/events/"+_event+"/"},function(error,
    ↳ response,body) {console.log(body)});
```

⇒

[Browse more samples](#)

13.35.1 Message template

array	meter/notifications/events/S/message_template/
Template for human-readable message generation	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Message template element](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command (note that `event` is a variable):

```
uom get "meter/notifications/events/${event}/message_template"
```

⇒

```
["emergency shutoff deactivated, normal outlet operation"]
```

Sample `curl` read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/meter/notifications/events/:event/message_template/"
```

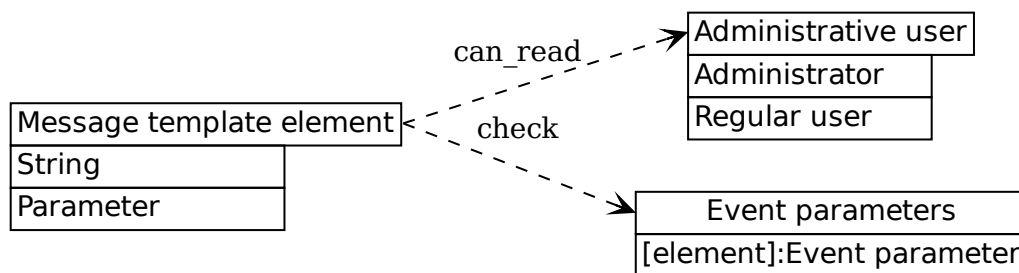
⇒

```
[0," is at alarm level ",1," for ",2," seconds"]
```

[Browse more samples](#)

sum (variant)	meter/notifications/events/S/message_template/N/
Element of human-readable message template	

13.35.1.1 Message template element



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

string	String	Fixed string	
number	Parameter	Index of message parameter to insert	event parameters[the value]

Sample CLI read command (note that `event` and `message_template_element_index` are variables):

```
uom get "meter/notifications/events/${event}/message_template/${
↵ message_template_element_index}"
```

⇒

```
"bus "
```

Sample `requests` read command (note that `_event` and `_message_template_element_index` are variables):

```
print(requests.get('http://192.168.0.100/restapi/meter/notifications/events/'+
↵ _event+'/message_template/'+str(_message_template_element_index)+'/', auth=
↵ auth, headers=headers).json())
```

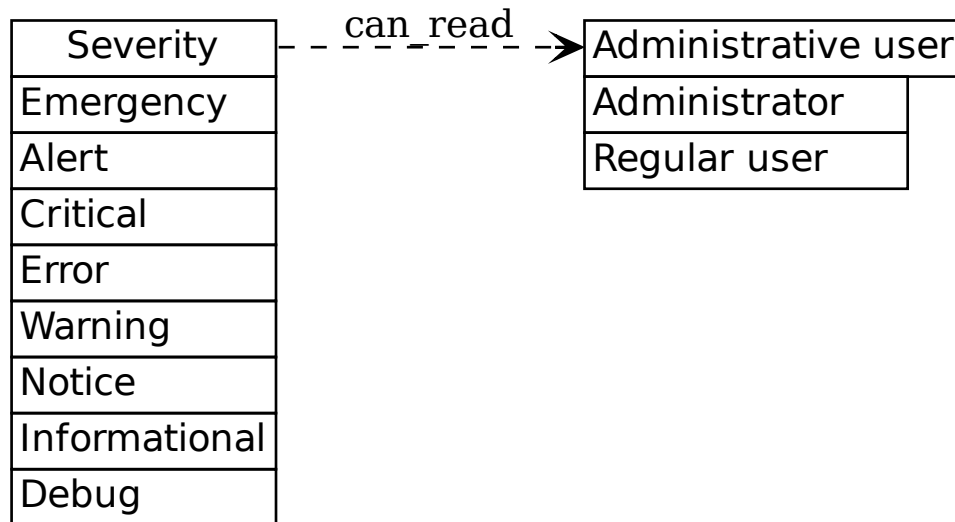
⇒

```
0
```

[Browse more samples](#)

13.35.2 Severity

sum (enumerated number)	meter/notifications/events/S/severity/
Severity rating assigned to the event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant 1	Emergency	Treat the event as an emergency
constant 2	Alert	Treat the event as an alert
constant 3	Critical	Treat the event as critical
constant 4	Error	Treat the event as an error
constant 5	Warning	Treat the event as a warning
constant 6	Notice	Treat the event as a notice
constant 7	Informational	Treat the event as informational
constant 8	Debug	Treat the event as debugging-related

Sample `requests` read command (note that `_event` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/meter/notifications/events/' + ↔
↔ _event + '/severity/', auth=auth, headers=headers).json())
```

⇒

6

Sample `uom` library read command (note that `_event` is a variable):

```
print (uom.dump (uom.meter.notifications.events[_event].severity))
```

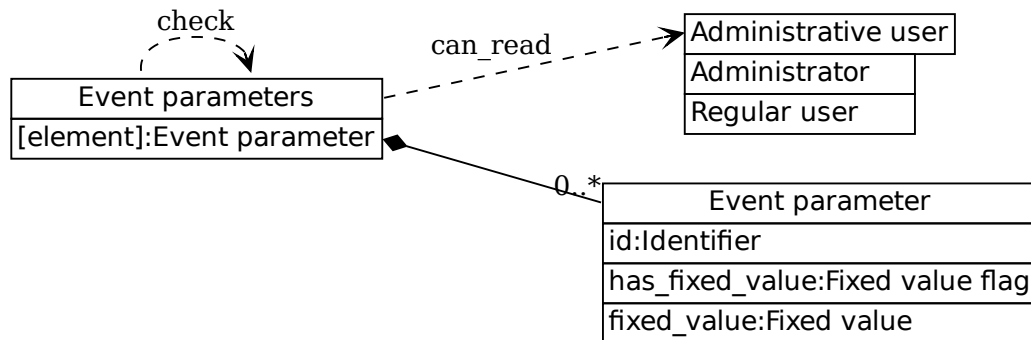
⇒

5

[Browse more samples](#)

13.35.3 Event parameters

array	meter/notifications/events/S/parameters/
Additional data associated with the event	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Event parameter](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/meter/notifications/events/:event/parameters/"
```

⇒

```
[{"fixed_value":null,"has_fixed_value":false,"id":"bus_index"}, {"fixed_value": ↵
↵ null,"has_fixed_value":false,"id":"bus_name"}, {"fixed_value":true," ↵
↵ has_fixed_value":true,"id":"bus_powered"}]
```

Sample `requests` read command (note that `_event` is a variable):

```
print (requests.get ('http://192.168.0.100/restapi/meter/notifications/events/' + ↵
↵ _event+'/parameters/', auth=auth, headers=headers).json())
```

⇒

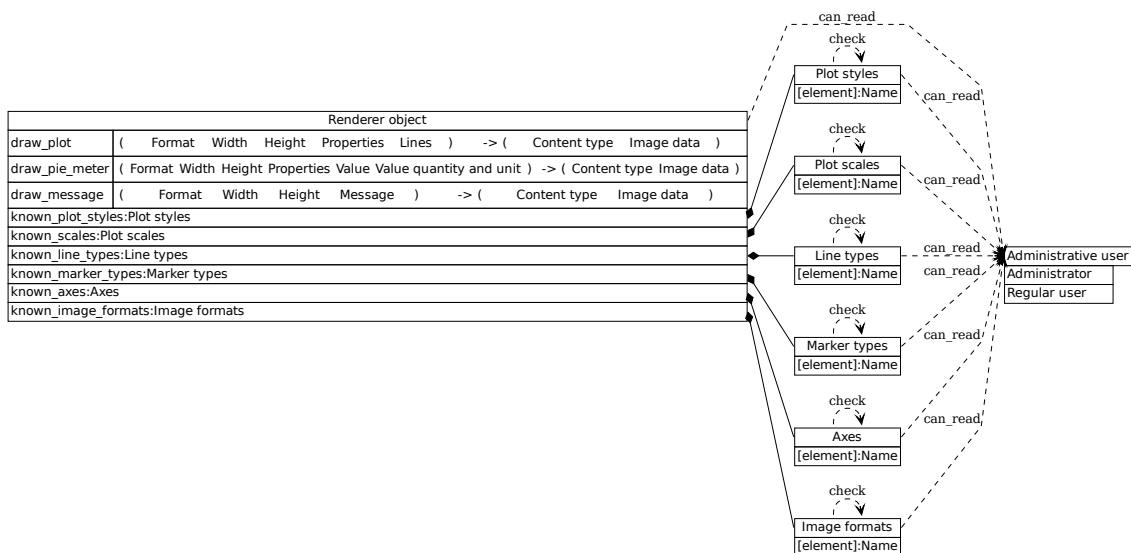
```
[{'fixed_value': False, 'has_fixed_value': True, 'id': 'emergency_off'}]
```

[Browse more samples](#)

See also [Event parameters: Event parameter](#)

14 Renderer object

object	renderer/
Object representing renderer capabilities and functions	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

draw_plot	Draw a plot
draw_pie_meter	Draw a pie meter
draw_message	Draw a message
known_plot_styles	Plot styles
known_scales	Plot scales
known_line_types	Line types
known_marker_types	Marker types
known_axes	Axes
known_image_formats	Image formats

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/renderer/"
```

⇒

Sample JS request write command:

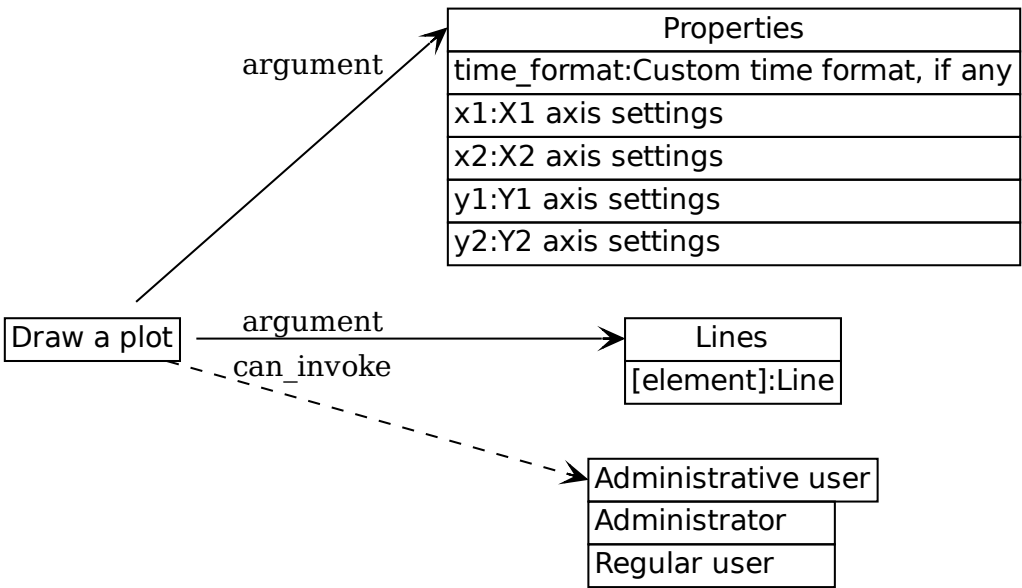
```
request.put({url:"renderer/",body:{"known_scales":{"linear":"linear","log":" ↵
↵ logarithmic"},"known_marker_types":{"circle":"Filled circle","square":" ↵
↵ Filled square","otriangle":"Empty triangle","osquare":"Empty square"," ↵
↵ triangle":"Filled triangle","rhombus":"Filled rhombus","orhombus":"Empty ↵
↵ rhombus","plus":"Plus","dot":"Dot","rotriangle":"Empty inverse triangle"," ↵
↵ rtriangle":"Filled inverse triangle","ocircle":"Empty circle","cross":" ↵
```

```
↪ Cross"}, "known_plot_styles": {"lines": "Lines only", "steps": "Step lines", " ↪
↪ bezier": "Bezier smoothed lines", "linespoints": "Lines and markers", "impulses ↪
↪ ": "Vertical lines", "dots": "Small dots", "csplines": "Spline smoothed lines", " ↪
↪ points": "Markers only", "boxes": "Boxes", "acsplines": "Approximated spline ↪
↪ smoothed lines"}, "known_line_types": {"dashed": "Dashed", "dotted": "Dotted", " ↪
↪ solid": "Solid"}, "known_image_formats": {"svg": "SVG", "gif": "GIF", "jpeg": "JPEG ↪
↪ ", "png": "PNG"}, "known_axes": {"x2y2": "X2, Y2", "x2y1": "X2, Y1", "x1y1": "X1, Y1 ↪
↪ ", "x1y2": "X1, Y2"}}});
```

[Browse more samples](#)

14.1 Draw a plot

call	renderer/draw_plot/
Generate an image with axes and data plotted on them	



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

- 1. Format: string
- 2. Width: number
- 3. Height: number
- 4. Properties: object "Properties"
- 5. Lines: array of "(string,array of "(number,None or Y)",object "Style",(object "X axis quantity and unit",object "Y axis quantity and unit"))"

The call returns the following results:

- 1. Content type: string
- 2. Image data: string

Sample uom library invocation:

```
print(uom.dump(uom.renderer.draw_plot("png",192,320,{time_format="%d %B, %Y",x1={
    ↪ max=null,min=null,mtics=null,softmax=null,softmin=null,tics=null},x2={max=
    ↪ null,min=null,mtics=4,softmax=null,softmin=null,tics=2},y1={max=null,min=
    ↪ null,mtics=null,softmax=null,softmin=null,tics=null},y2={max=null,min=null,
    ↪ mtics=null,softmax=null,softmin=null,tics=1}},{})))

⇒

"<binary data of type image/jpeg>"
```

Sample CLI invocation:

```
uom invoke "renderer/draw_plot" "\"png\"" "256" "320" "{ \"y1\": { \"min\": null, \"
    ↪ softmax\": null, \"max\": null, \"tics\": 1, \"mtics\": 2, \"softmin\": null }, \"x2
    ↪ \": { \"min\": null, \"softmax\": null, \"max\": null, \"tics\": null, \"mtics\": 3, \"
    ↪ softmin\": null }, \"y2\": { \"min\": null, \"softmax\": null, \"max\": null, \"tics
    ↪ \": 7, \"mtics\": null, \"softmin\": null }, \"time_format\": \"%d %b, %Y\", \"x1
    ↪ \": { \"min\": null, \"softmax\": null, \"max\": null, \"tics\": 7, \"mtics\": null, \"
    ↪ softmin\": null } }" ...

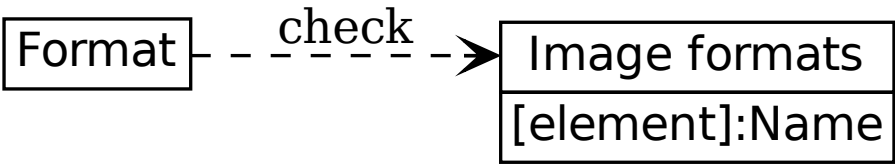
⇒

"<binary data of type image/png>"
```

[Browse more samples](#)

14.1.1 Format

string	renderer/draw_plot/arguments: 1/
Image format	



The value is subject to the following constraints: [image formats\[the value\]](#)

This string does not correspond to an actual resource.

14.1.2 Width

number	renderer/draw_plot/arguments: 2/
The width of the image	

The value represents screen length, the standard unit of which is the pixel (px).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0

This number does not correspond to an actual resource.

14.1.3 Height

number	renderer/draw_plot/arguments: 3/
The height of the image	

The value represents screen length, the standard unit of which is the pixel (px).

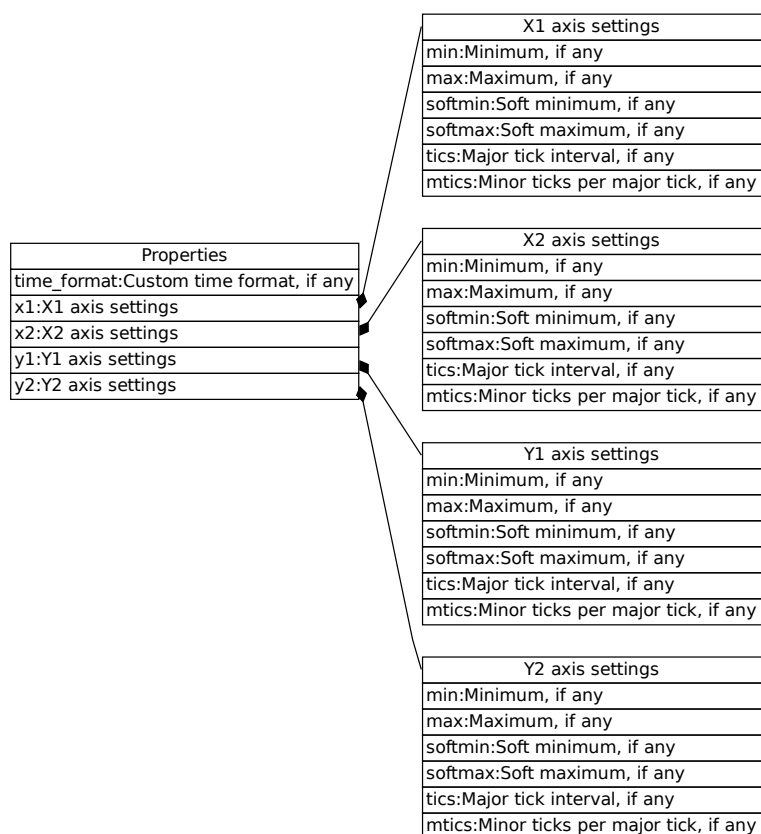
The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0

This number does not correspond to an actual resource.

14.1.4 Properties

object	renderer/draw_plot/arguments: 4/
Properties of the plot	



This object does not correspond to an actual resource.

This object contains the following items:

time_format	Custom time format, if any
x1	X1 axis settings
x2	X2 axis settings
y1	Y1 axis settings
y2	Y2 axis settings

See also [Properties: Custom time format, if any](#)

See also [Properties: X1 axis settings](#)

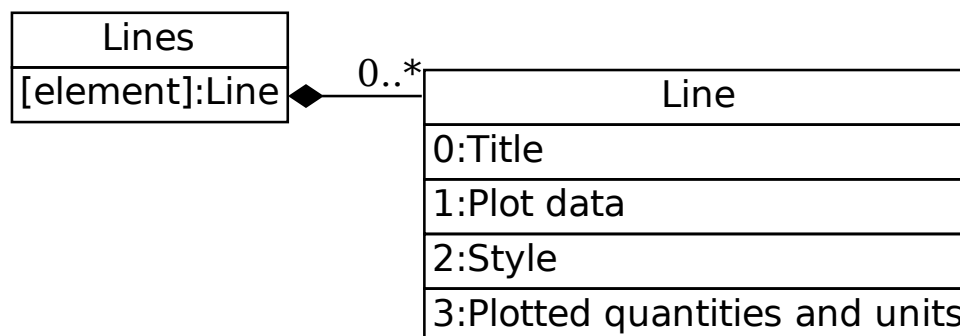
See also [Properties: X2 axis settings](#)

See also [Properties: Y1 axis settings](#)

See also [Properties: Y2 axis settings](#)

14.1.5 Lines

array	renderer/draw_plot/arguments: 5/
Plot data lines	



This array does not correspond to an actual resource.

This array contains [Line](#) elements.

See also [Lines: Line](#)

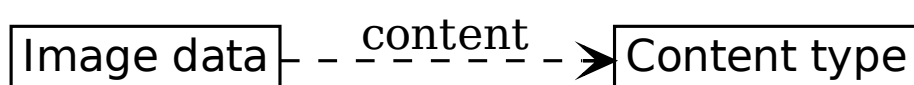
14.1.6 Content type

string	renderer/draw_plot/results: 1/
The content type of the generated image	

This string does not correspond to an actual resource.

14.1.7 Image data

string	renderer/draw_plot/results: 2/
Generated image data	



The value contains [content type](#) data.

This string does not correspond to an actual resource.

14.2 Properties: Custom time format, if any

sum (optional string)	renderer/draw_plot/arguments: 4/time_format/
Custom format to display time in, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Default	Use default time format
string	Custom time format	Custom format to display time in

14.3 Properties: X1 axis settings

object	renderer/draw_plot/arguments: 4/x1/
Configuration for X1 axis	

This object does not correspond to an actual resource.

This object contains the following items:

min	Minimum, if any
max	Maximum, if any
softmin	Soft minimum, if any
softmax	Soft maximum, if any
tics	Major tick interval, if any
mtics	Minor ticks per major tick, if any

14.3.1 Minimum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x1/min/
Minimum value to display on the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The maximum value is derived from data and the soft maximum
number	Minimum	Minimum value to display on the axis

14.3.2 Maximum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x1/max/
Maximum value to display on the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The minimum value is derived from data and the soft minimum
number	Maximum	Maximum value to display on the axis

14.3.3 Soft minimum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x1/softmin/
Minimum value to display on the axis unless values exist below it, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	No soft maximum defined
number	Soft minimum	Minimum value to display on the axis unless values exist below it

14.3.4 Soft maximum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x1/softmax/
Maximum value to display on the axis unless values exist above it, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	No soft minimum defined
number	Soft maximum	Maximum value to display on the axis unless values exist above it

14.3.5 Major tick interval, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x1/tics/
The interval, in value units, between major ticks of the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The tick interval is derived from data and size
number	Major tick interval	The interval, in value units, between major ticks of the axis

14.3.6 Minor ticks per major tick, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x1/mtics/
The number of minor ticks between two major ticks, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	There are no minor ticks	
number	Minor ticks per major tick	The number of minor ticks between two major ticks	all of the following is true: • the value is an integer • the value is greater or equal to 0

14.4 Properties: X2 axis settings

object	renderer/draw_plot/arguments: 4/x2/
Configuration for X2 axis	

This object does not correspond to an actual resource.

This object contains the following items:

min	Minimum, if any
max	Maximum, if any
softmin	Soft minimum, if any
softmax	Soft maximum, if any
tics	Major tick interval, if any
mtics	Minor ticks per major tick, if any

14.4.1 Minimum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x2/min/
Minimum value to display on the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The maximum value is derived from data and the soft maximum
number	Minimum	Minimum value to display on the axis

14.4.2 Maximum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x2/max/
Maximum value to display on the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The minimum value is derived from data and the soft minimum
number	Maximum	Maximum value to display on the axis

14.4.3 Soft minimum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x2/softmin/
Minimum value to display on the axis unless values exist below it, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	No soft maximum defined
number	Soft minimum	Minimum value to display on the axis unless values exist below it

14.4.4 Soft maximum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x2/softmax/
Maximum value to display on the axis unless values exist above it, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	No soft minimum defined
number	Soft maximum	Maximum value to display on the axis unless values exist above it

14.4.5 Major tick interval, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x2/tics/
The interval, in value units, between major ticks of the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The tick interval is derived from data and size
number	Major tick interval	The interval, in value units, between major ticks of the axis

14.4.6 Minor ticks per major tick, if any

sum (optional number)	renderer/draw_plot/arguments: 4/x2/mtics/
The number of minor ticks between two major ticks, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	There are no minor ticks	
number	Minor ticks per major tick	The number of minor ticks between two major ticks	all of the following is true: • the value is an integer • the value is greater or equal to 0

14.5 Properties: Y1 axis settings

object	renderer/draw_plot/arguments: 4/y1/
Configuration for Y1 axis	

This object does not correspond to an actual resource.

This object contains the following items:

min	Minimum, if any
max	Maximum, if any
softmin	Soft minimum, if any
softmax	Soft maximum, if any
tics	Major tick interval, if any
mtics	Minor ticks per major tick, if any

14.5.1 Minimum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y1/min/
Minimum value to display on the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The maximum value is derived from data and the soft maximum
number	Minimum	Minimum value to display on the axis

14.5.2 Maximum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y1/max/
Maximum value to display on the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The minimum value is derived from data and the soft minimum
number	Maximum	Maximum value to display on the axis

14.5.3 Soft minimum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y1/softmin/
Minimum value to display on the axis unless values exist below it, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	No soft maximum defined
number	Soft minimum	Minimum value to display on the axis unless values exist below it

14.5.4 Soft maximum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y1/softmax/
Maximum value to display on the axis unless values exist above it, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	No soft minimum defined
number	Soft maximum	Maximum value to display on the axis unless values exist above it

14.5.5 Major tick interval, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y1/tics/
The interval, in value units, between major ticks of the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The tick interval is derived from data and size
number	Major tick interval	The interval, in value units, between major ticks of the axis

14.5.6 Minor ticks per major tick, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y1/mtics/
The number of minor ticks between two major ticks, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	There are no minor ticks	
number	Minor ticks per major tick	The number of minor ticks between two major ticks	all of the following is true: • the value is an integer • the value is greater or equal to 0

14.6 Properties: Y2 axis settings

object	renderer/draw_plot/arguments: 4/y2/
Configuration for Y2 axis	

This object does not correspond to an actual resource.

This object contains the following items:

min	Minimum, if any
max	Maximum, if any
softmin	Soft minimum, if any
softmax	Soft maximum, if any
tics	Major tick interval, if any
mtics	Minor ticks per major tick, if any

14.6.1 Minimum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y2/min/
Minimum value to display on the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The maximum value is derived from data and the soft maximum
number	Minimum	Minimum value to display on the axis

14.6.2 Maximum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y2/max/
Maximum value to display on the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The minimum value is derived from data and the soft minimum
number	Maximum	Maximum value to display on the axis

14.6.3 Soft minimum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y2/softmin/
Minimum value to display on the axis unless values exist below it, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	No soft maximum defined
number	Soft minimum	Minimum value to display on the axis unless values exist below it

14.6.4 Soft maximum, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y2/softmax/
Maximum value to display on the axis unless values exist above it, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	No soft minimum defined
number	Soft maximum	Maximum value to display on the axis unless values exist above it

14.6.5 Major tick interval, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y2/tics/
The interval, in value units, between major ticks of the axis, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Automatic	The tick interval is derived from data and size
number	Major tick interval	The interval, in value units, between major ticks of the axis

14.6.6 Minor ticks per major tick, if any

sum (optional number)	renderer/draw_plot/arguments: 4/y2/mtics/
The number of minor ticks between two major ticks, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	There are no minor ticks	
number	Minor ticks per major tick	The number of minor ticks between two major ticks	all of the following is true: • the value is an integer • the value is greater or equal to 0

14.7 Plot data: Plot point

tuple	renderer/draw_plot/arguments: 5/N/2/N/
Point to plot	

This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	X
2	Y, if any

14.7.1 X

number	renderer/draw_plot/arguments: 5/N/2/N/1/
X coordinate to plot	

This number does not correspond to an actual resource.

14.7.2 Y, if any

sum (variant)	renderer/draw_plot/arguments: 5/N/2/N/2/
Y coordinate to plot, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant false	None	Data for this X position is absent
number	Y	Y coordinate to plot

14.8 Plotted quantities and units: X axis quantity and unit

object	renderer/draw_plot/arguments: 5/N/4/1/
The quantity and unit for X axis	

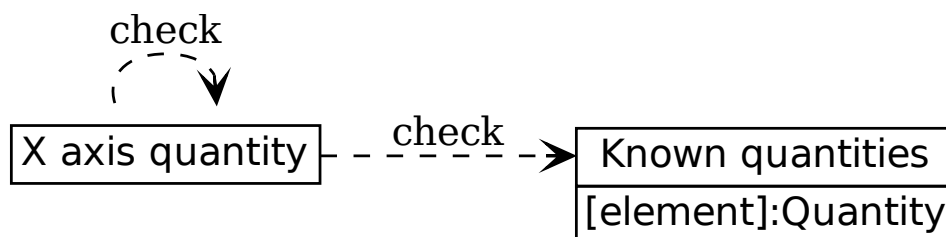
This object does not correspond to an actual resource.

This object contains the following items:

quantity	X axis quantity
unit	X axis unit

14.8.1 X axis quantity

string	renderer/draw_plot/arguments: 5/N/4/1/quantity/
The quantity for X axis	

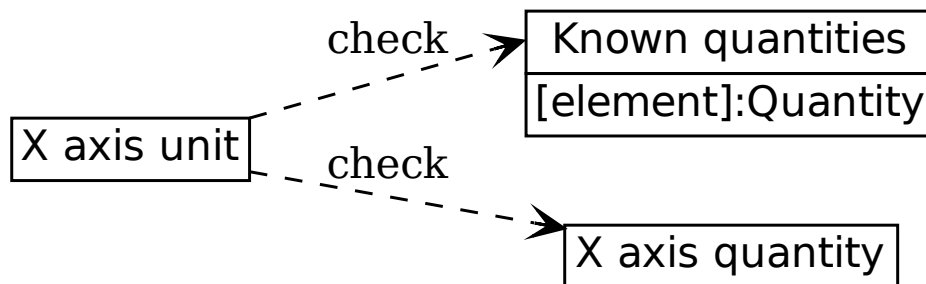


The value is subject to the following constraints: [known quantities\[the value\]](#)

This string does not correspond to an actual resource.

14.8.2 X axis unit

string	renderer/draw_plot/arguments: 5/N/4/1/unit/
The unit for X axis	



The value is subject to the following constraints: [known quantities\[X axis quantity\].units\[the value\]](#)

This string does not correspond to an actual resource.

14.9 Plotted quantities and units: Y axis quantity and unit

object	renderer/draw_plot/arguments: 5/N/4/2/
The quantity and unit for Y axis	

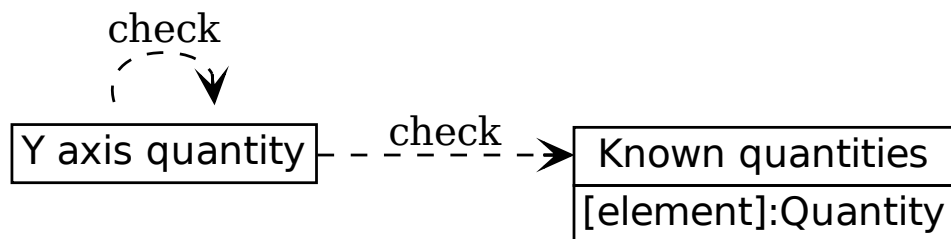
This object does not correspond to an actual resource.

This object contains the following items:

quantity	Y axis quantity
unit	Y axis unit

14.9.1 Y axis quantity

string	renderer/draw_plot/arguments: 5/N/4/2/quantity/
The quantity for Y axis	

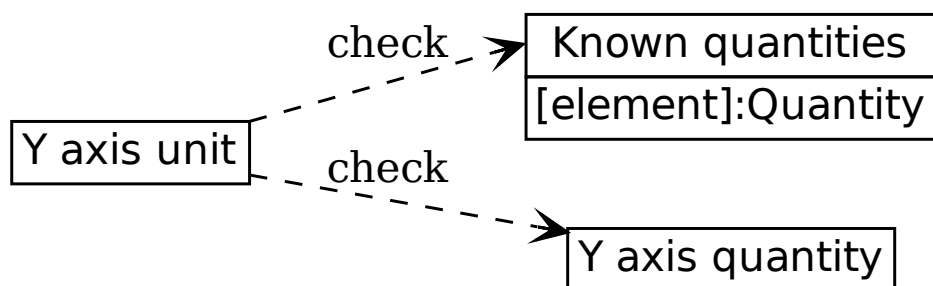


The value is subject to the following constraints: [known quantities\[the value\]](#)

This string does not correspond to an actual resource.

14.9.2 Y axis unit

string	renderer/draw_plot/arguments: 5/N/4/2/unit/
The unit for Y axis	

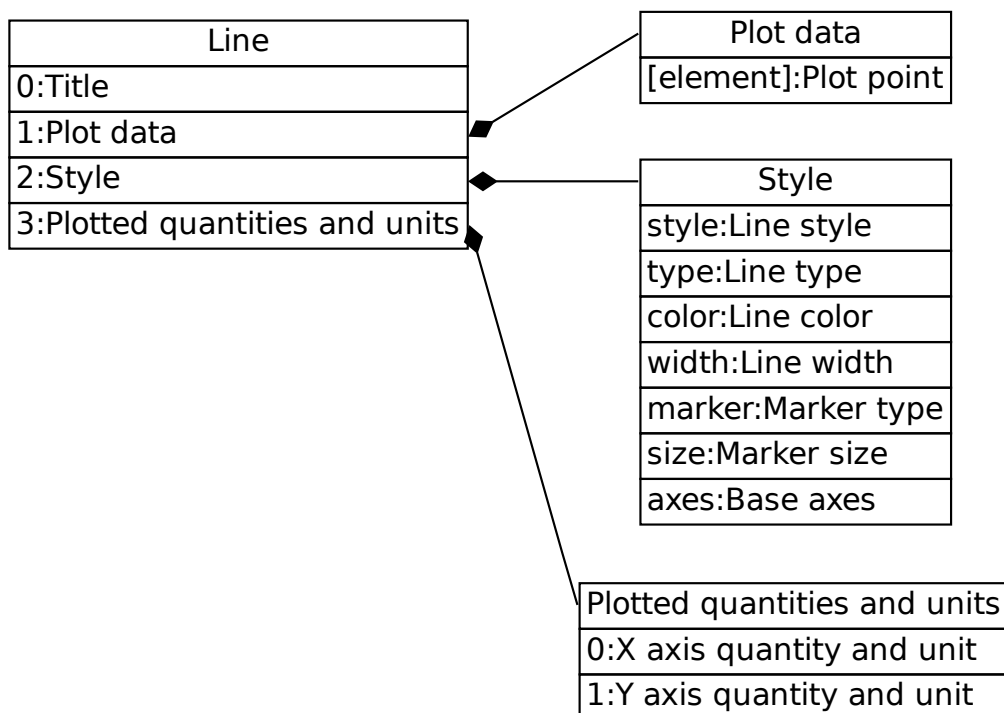


The value is subject to the following constraints: [known quantities\[Y axis quantity\].units\[the value\]](#)

This string does not correspond to an actual resource.

14.10 Lines: Line

tuple	renderer/draw_plot/arguments: 5/N/
Plot data line settings	



This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Title
2	Plot data
3	Style
4	Plotted quantities and units

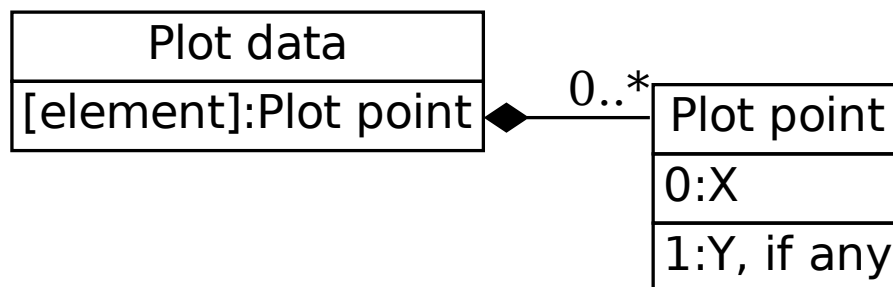
14.10.1 Title

string	renderer/draw_plot/arguments: 5/N/1/
Plot line title	

This string does not correspond to an actual resource.

14.10.2 Plot data

array	renderer/draw_plot/arguments: 5/N/2/
Data to plot	



This array does not correspond to an actual resource.

This array contains [Plot point](#) elements.

See also [Plot data: Plot point](#)

14.10.3 Style

object	renderer/draw_plot/arguments: 5/N/3/
Style of the plot line	

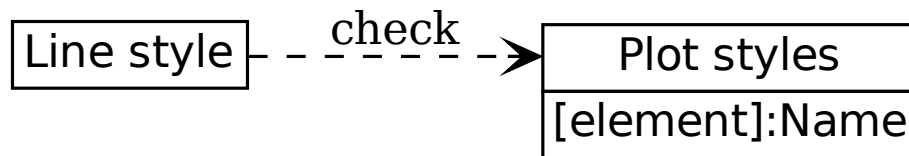
This object does not correspond to an actual resource.

This object contains the following items:

style	Line style
type	Line type
color	Line color
width	Line width
marker	Marker type
size	Marker size
axes	Base axes

string	renderer/draw_plot/arguments: 5/N/3/style/
The style of the line	

14.10.3.1 Line style

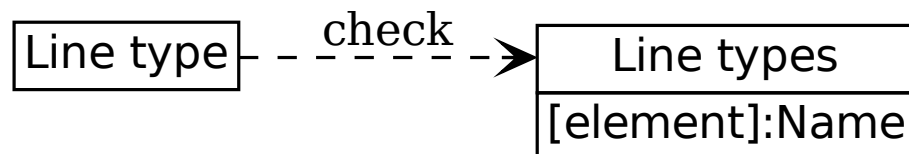


The value is subject to the following constraints: [plot styles\[the value\]](#)

This string does not correspond to an actual resource.

string	renderer/draw_plot/arguments: 5/N/3/type/
The type of the line	

14.10.3.2 Line type



The value is subject to the following constraints: [line types\[the value\]](#)

This string does not correspond to an actual resource.

string	renderer/draw_plot/arguments: 5/N/3/color/
The color of the line	

14.10.3.3 Line color The value is subject to the following constraints: [the value](#) matches `^[0-9A-F]{6}$`

This string does not correspond to an actual resource.

number	renderer/draw_plot/arguments: 5/N/3/width/
The width of the line	

14.10.3.4 Line width The value represents screen length, the standard unit of which is the pixel (px).

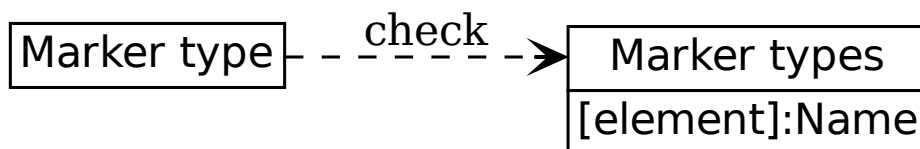
The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater or equal to 0

This number does not correspond to an actual resource.

string	renderer/draw_plot/arguments: 5/N/3/marker/
The type of the marker	

14.10.3.5 Marker type



The value is subject to the following constraints: [marker types](#)[[the value](#)]

This string does not correspond to an actual resource.

number	renderer/draw_plot/arguments: 5/N/3/size/
The size of the markers	

14.10.3.6 Marker size The value represents screen length, the standard unit of which is the pixel (px).

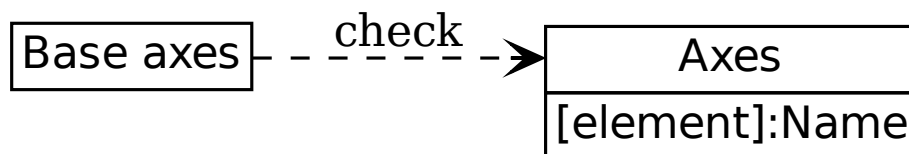
The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater or equal to 0

This number does not correspond to an actual resource.

string	renderer/draw_plot/arguments: 5/N/3/axes/
The axes on which the line should be plotted. Units of lines plotted on the same axes must match	

14.10.3.7 Base axes

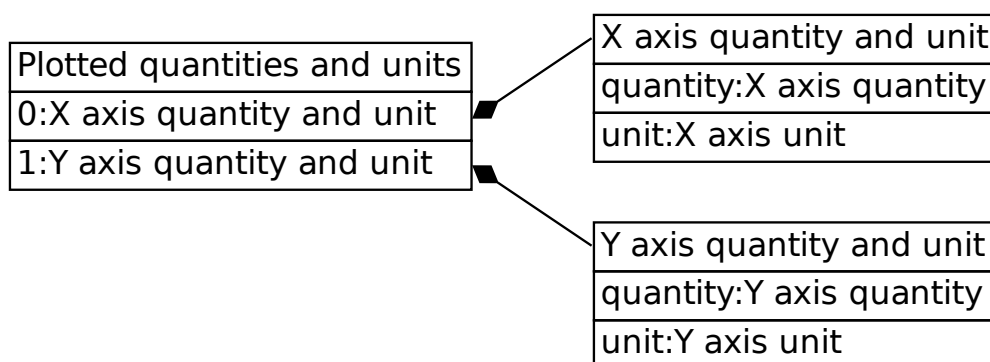


The value is subject to the following constraints: [axes\[the value\]](#)

This string does not correspond to an actual resource.

14.10.4 Plotted quantities and units

tuple	renderer/draw_plot/arguments: 5/N/4/
Quantities and units to be plotted	



This tuple does not correspond to an actual resource.

This tuple contains the following items:

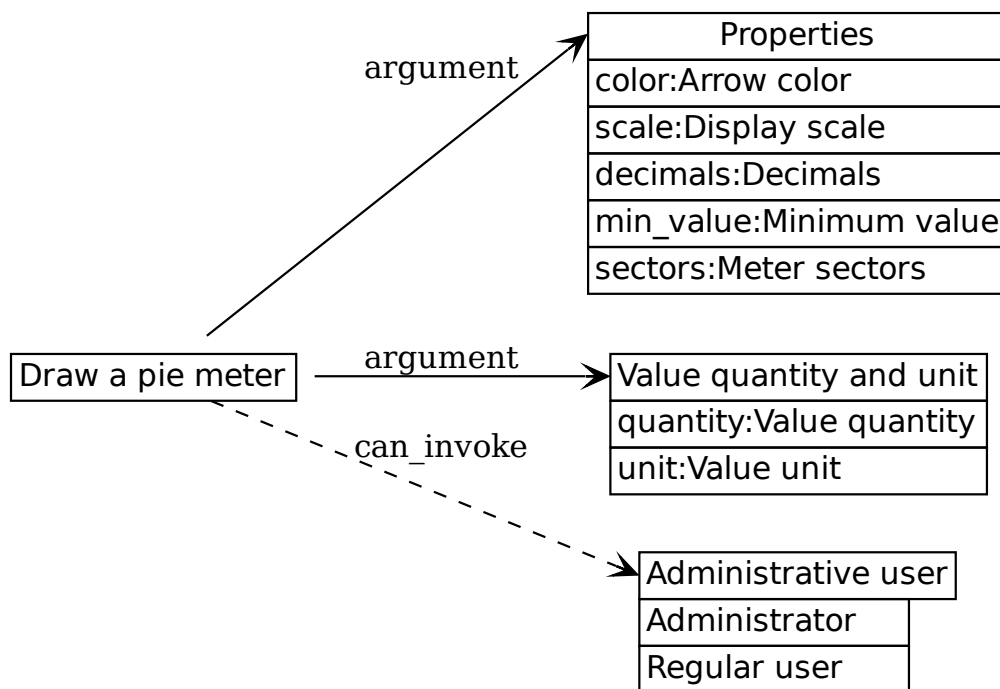
1	X axis quantity and unit
2	Y axis quantity and unit

See also [Plotted quantities and units: X axis quantity and unit](#)

See also [Plotted quantities and units: Y axis quantity and unit](#)

14.11 Draw a pie meter

call	renderer/draw_pie_meter/
Generate a multi-sector meter image with an arrow indicating value	



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

1. Format: string
2. Width: number
3. Height: number
4. Properties: object "Properties"

5. Value: number
6. Value quantity and unit: object "Value quantity and unit"

The call returns the following results:

1. Content type: string
2. Image data: string

Sample CLI invocation:

```
uom invoke "renderer/draw_pie_meter" "\"gif\"" "960" "64" "{\"decimals\":1,\"
↪ scale\": \"linear\", \"sectors\": [{\"value\":57, \"name\": \"Low\", \"color\": \"
↪ A5FD9F\"}, {\"value\":84, \"name\": \"High\", \"color\": \"D22DE6\"}], \"
↪ min_value\":49, \"color\": \"FA03B5\"}" "78"
```

⇒

"<binary data of type image/png>"

Sample requests invocation:

```
print(requests.post('http://192.168.0.100/restapi/renderer/draw_pie_meter/', auth=
↪ auth, headers=headers, json=['svg', 7680, 1280, {'decimals': 1, 'scale': 'log
↪ ', 'sectors': [{'value': 70, 'name': 'Low', 'color': 'A17A19'}, {'value':
↪ 73, 'name': 'Medium', 'color': '2C4F5F'}, {'value': 81, 'name': 'High', '
↪ color': '47B963'}], 'min_value': 62, 'color': '60A2E3'}, 64]).json())
```

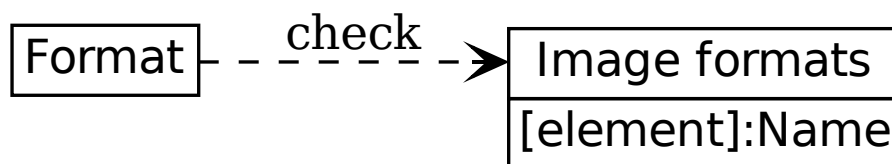
⇒

'<binary data of type image/jpeg>'

[Browse more samples](#)

14.11.1 Format

string	renderer/draw_pie_meter/arguments: 1/
Image format	



The value is subject to the following constraints: [image formats\[the value\]](#)

This string does not correspond to an actual resource.

14.11.2 Width

number	renderer/draw_pie_meter/arguments: 2/
The width of the image	

The value represents screen length, the standard unit of which is the pixel (px).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0

This number does not correspond to an actual resource.

14.11.3 Height

number	renderer/draw_pie_meter/arguments: 3/
The height of the image	

The value represents screen length, the standard unit of which is the pixel (px).

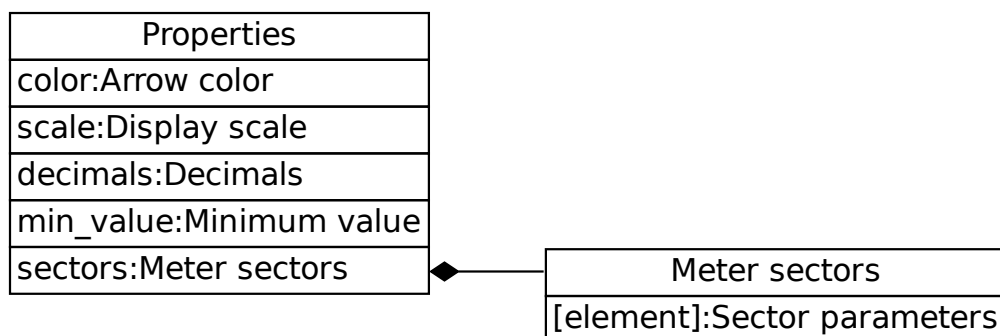
The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0

This number does not correspond to an actual resource.

14.11.4 Properties

object	renderer/draw_pie_meter/arguments: 4/
Properties of the meter	



This object does not correspond to an actual resource.

This object contains the following items:

color	Arrow color
scale	Display scale
decimals	Decimals
min_value	Minimum value
sectors	Meter sectors

See also [Properties: Arrow color](#)

See also [Properties: Display scale](#)

See also [Properties: Decimals](#)

See also [Properties: Minimum value](#)

See also [Properties: Meter sectors](#)

14.11.5 Value

number	renderer/draw_pie_meter/arguments: 5/
Meter value to display	

This number does not correspond to an actual resource.

See also [Draw a pie meter: Value quantity and unit](#)

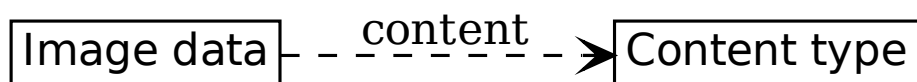
14.11.6 Content type

string	renderer/draw_pie_meter/results: 1/
The content type of the generated image	

This string does not correspond to an actual resource.

14.11.7 Image data

string	renderer/draw_pie_meter/results: 2/
Generated image data	



The value contains [content type](#) data.

This string does not correspond to an actual resource.

14.12 Properties: Arrow color

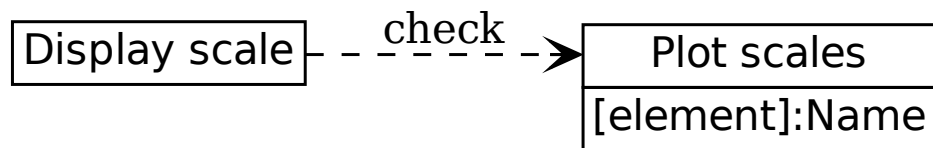
string	renderer/draw_pie_meter/arguments: 4/color/
The color of the meter arrow	

The value is subject to the following constraints: [the value](#) matches `^[0-9A-F]{6}$`

This string does not correspond to an actual resource.

14.13 Properties: Display scale

string	renderer/draw_pie_meter/arguments: 4/scale/
The scale function to use for display	



The value is subject to the following constraints: [plot scales\[the value\]](#)

This string does not correspond to an actual resource.

14.14 Properties: Decimals

number	renderer/draw_pie_meter/arguments: 4/decimals/
Number of decimal places to show in displayed value	

The value represents count, the standard unit of which is the time (times).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater or equal to 0

This number does not correspond to an actual resource.

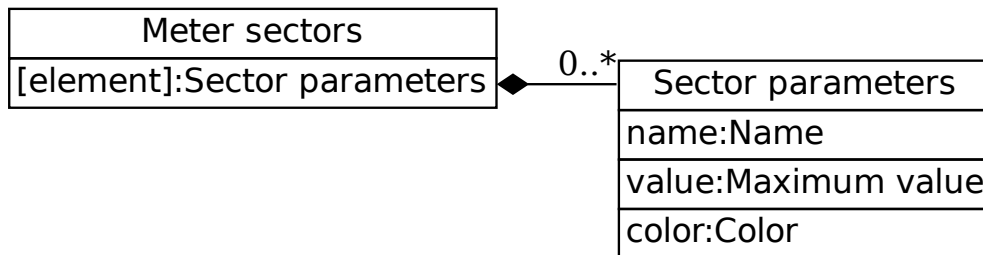
14.15 Properties: Minimum value

number	renderer/draw_pie_meter/arguments: 4/min_value/
The minimum value to be displayed on the meter	

This number does not correspond to an actual resource.

14.16 Properties: Meter sectors

array	renderer/draw_pie_meter/arguments: 4/sectors/
Parameters of meter sectors	



This array does not correspond to an actual resource.

This array contains [Sector parameters](#) elements.

14.16.1 Sector parameters

object	renderer/draw_pie_meter/arguments: 4/sectors/N/
Parameters of a meter sector	

This object does not correspond to an actual resource.

This object contains the following items:

name	Name
value	Maximum value
color	Color

string	renderer/draw_pie_meter/arguments: 4/sectors/N/name/
The name of the sector	

14.16.1.1 Name This string does not correspond to an actual resource.

number	renderer/draw_pie_meter/arguments: 4/sectors/N/value/
The maximum value for the sector	

14.16.1.2 Maximum value This number does not correspond to an actual resource.

string	renderer/draw_pie_meter/arguments: 4/sectors/N/color/
The color of the sector	

14.16.1.3 Color The value is subject to the following constraints: [the value](#) matches $^{[0-9A-F]\{6\}}$

This string does not correspond to an actual resource.

14.17 Draw a pie meter: Value quantity and unit

object	renderer/draw_pie_meter/arguments: 6/
The quantity and unit for value	

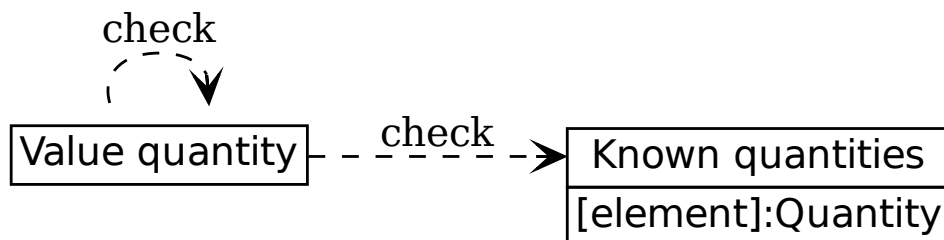
This object does not correspond to an actual resource.

This object contains the following items:

quantity	Value quantity
unit	Value unit

14.17.1 Value quantity

string	renderer/draw_pie_meter/arguments: 6/quantity/
The quantity for value	

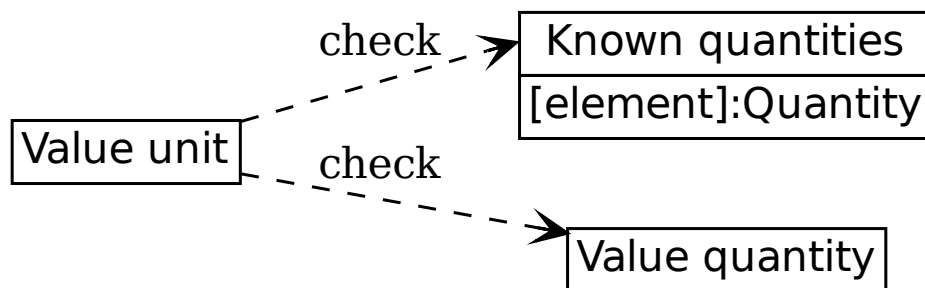


The value is subject to the following constraints: [known quantities](#)[[the value](#)]

This string does not correspond to an actual resource.

14.17.2 Value unit

string	renderer/draw_pie_meter/arguments: 6/unit/
The unit for value	

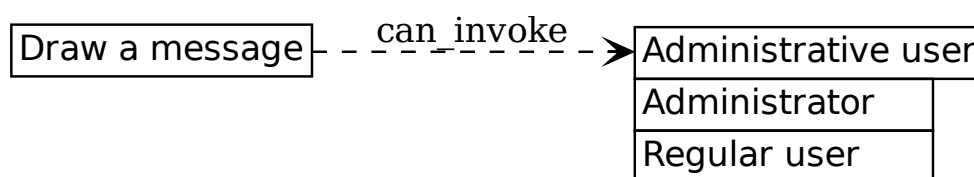


The value is subject to the following constraints: [known quantities\[value quantity\].units\[the value\]](#)

This string does not correspond to an actual resource.

14.18 Draw a message

call	renderer/draw_message/
Generate an image with a message in its center	



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

1. Format: string
2. Width: number
3. Height: number
4. Message: string

The call returns the following results:

1. Content type: string
2. Image data: string

Sample requests invocation:

```
print(requests.post('http://192.168.0.100/restapi/renderer/draw_message/', auth=
    ↪ auth, headers=headers, json=['svg', 1280, 128, 'Message!']).json())
```

⇒

```
'<binary data of type image/svg+xml>'
```

Sample CLI invocation:

```
uom invoke "renderer/draw_message" "\"gif\"" "7680" "15360" "\"Message!\""
```

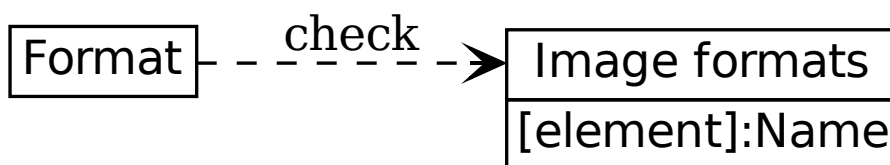
⇒

```
"<binary data of type image/gif>"
```

[Browse more samples](#)

14.18.1 Format

string	renderer/draw_message/arguments: 1/
Image format	



The value is subject to the following constraints: [image formats\[the value\]](#)

This string does not correspond to an actual resource.

14.18.2 Width

number	renderer/draw_message/arguments: 2/
The width of the image	

The value represents screen length, the standard unit of which is the pixel (px).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0

This number does not correspond to an actual resource.

14.18.3 Height

number	renderer/draw_message/arguments: 3/
The height of the image	

The value represents screen length, the standard unit of which is the pixel (px).

The value is subject to the following constraints: all of the following is true:

- [the value](#) is an integer
- [the value](#) is greater than 0

This number does not correspond to an actual resource.

14.18.4 Message

string	renderer/draw_message/arguments: 4/
Message text	

This string does not correspond to an actual resource.

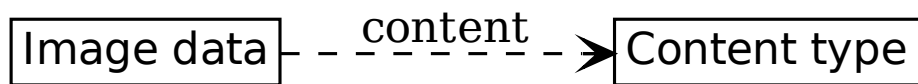
14.18.5 Content type

string	renderer/draw_message/results: 1/
The content type of the generated image	

This string does not correspond to an actual resource.

14.18.6 Image data

string	renderer/draw_message/results: 2/
Generated image data	

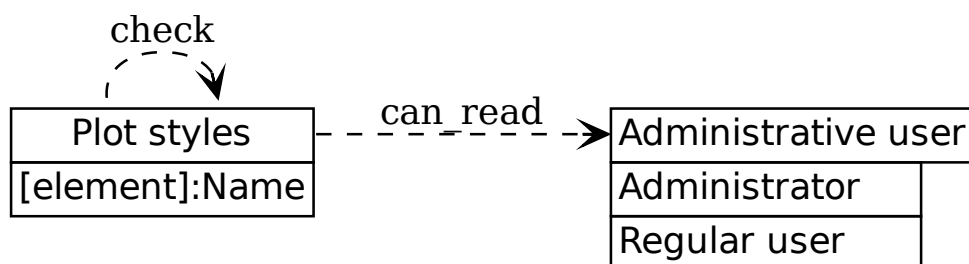


The value contains [content type](#) data.

This string does not correspond to an actual resource.

14.19 Plot styles

map	renderer/known_plot_styles/
Known plot styles	



Retrieving the value is denied if not [administrative user](#)

This map does not support direct modification.

This map contains [Name](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command:

```
uom get "renderer/known_plot_styles"
```

⇒

Sample JS request read command:

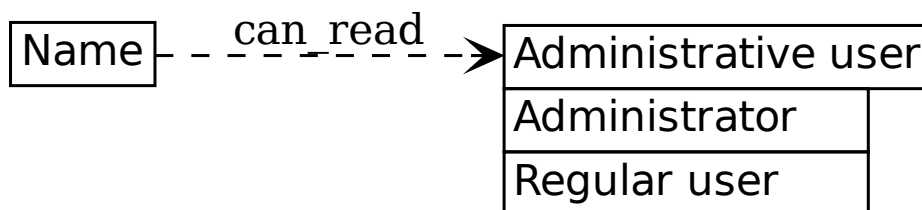
```
request.get({url:"renderer/known_plot_styles/"},function(error,response,body) { ↵
  ↵ console.log(body) });
```

⇒

[Browse more samples](#)

14.19.1 Name

string	renderer/known_plot_styles/S/
Name of plot style	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

Sample CLI read command (note that name is a variable):

```
uom get "renderer/known_plot_styles/${name}"
```

⇒

```
"Lines and markers"
```

Sample JS request read command (note that _name is a variable):

```
request.get({url:"renderer/known_plot_styles/"+_name+"/"},function(error,response ↵
  ↵ ,body) {console.log(body) });
```

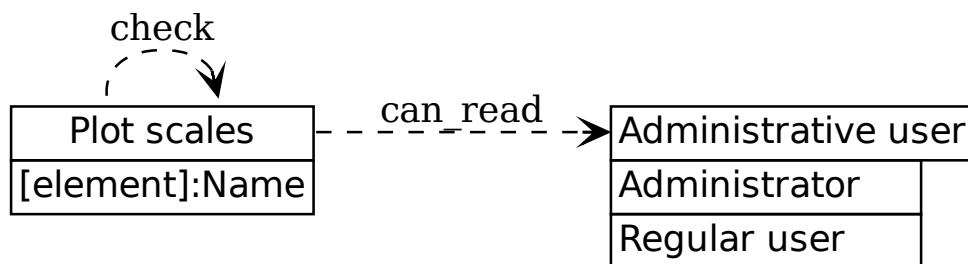
⇒

```
"Vertical lines"
```

[Browse more samples](#)

14.20 Plot scales

map	renderer/known_scales/
Known plot scales	



Retrieving the value is denied if not [administrative user](#)

This map does not support direct modification.

This map contains [Name](#) elements.

Creating elements in this collection is not supported.

Sample `requests` read command:

```
print (requests.get ('http://192.168.0.100/restapi/renderer/known_scales/', auth= ↵
    ↵ auth, headers=headers).json())
```

⇒

```
{'linear': 'linear', 'log': 'logarithmic'}
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
    ↵ restapi/renderer/known_scales/"
```

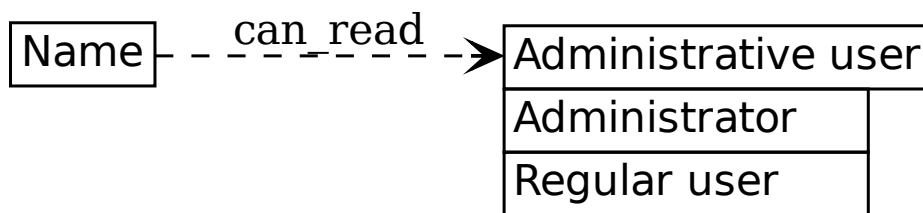
⇒

```
{"linear": "linear", "log": "logarithmic"}
```

[Browse more samples](#)

14.20.1 Name

string	renderer/known_scales/S/
Name of plot scale	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

Sample uom library read command (note that `_name` is a variable):

```
print(uom.dump(uom.renderer.known_scales[_name]))
```

⇒

```
"logarithmic"
```

Sample CLI read command (note that `name` is a variable):

```
uom get "renderer/known_scales/${name}"
```

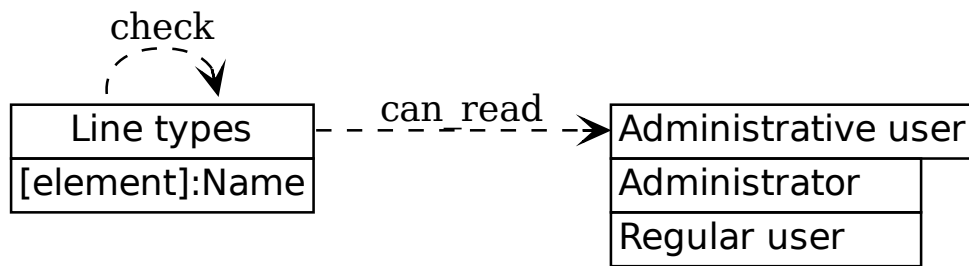
⇒

```
"linear"
```

[Browse more samples](#)

14.21 Line types

map	renderer/known_line_types/
Known line types	



Retrieving the value is denied if not [administrative user](#)

This map does not support direct modification.

This map contains [Name](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print (uom.dump (uom.renderer.known_line_types))
```

⇒

```
{dashed="Dashed",dotted="Dotted",solid="Solid"}
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/renderer/known_line_types/"
```

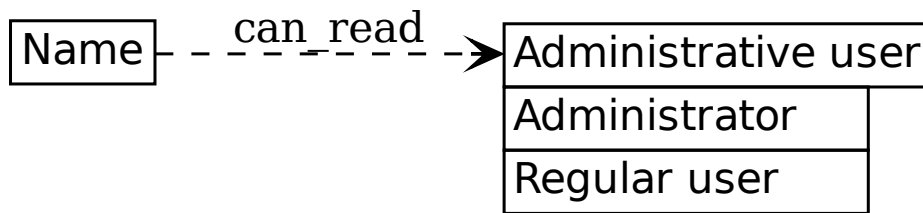
⇒

```
{"dashed":"Dashed","dotted":"Dotted","solid":"Solid"}
```

[Browse more samples](#)

14.21.1 Name

string	renderer/known_line_types/S/
Name of line type	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

Sample `curl` read command (note that `:name` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/renderer/known_line_types/:name/"
```

⇒

"Dotted"

Sample `requests` read command (note that `_name` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/renderer/known_line_types/'+ ↵
↵ _name+'/', auth=auth, headers=headers).json())
```

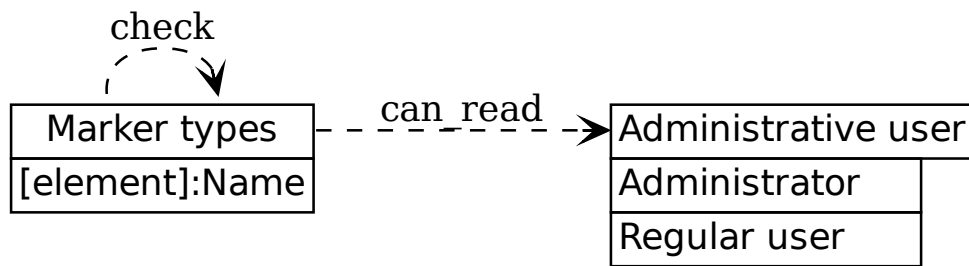
⇒

'Solid'

[Browse more samples](#)

14.22 Marker types

map	renderer/known_marker_types/
Known marker types	



Retrieving the value is denied if not [administrative user](#)

This map does not support direct modification.

This map contains [Name](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/renderer/known_marker_types/"
```

⇒

Sample `uom` library read command:

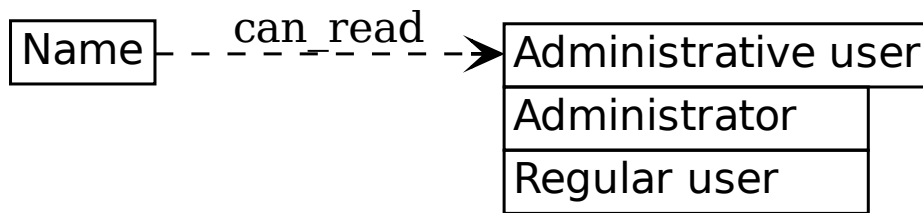
```
print (uom.dump (uom.renderer.known_marker_types))
```

⇒

[Browse more samples](#)

14.22.1 Name

string	renderer/known_marker_types/S/
Name of marker type	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

Sample uom library read command (note that `_name` is a variable):

```
print(uom.dump(uom.renderer.known_marker_types[_name]))
```

⇒

"Plus"

Sample JS request read command (note that `_name` is a variable):

```
request.get({url:"renderer/known_marker_types/"+_name+"/"},function(error, ↵
    ↵ response,body) {console.log(body)});
```

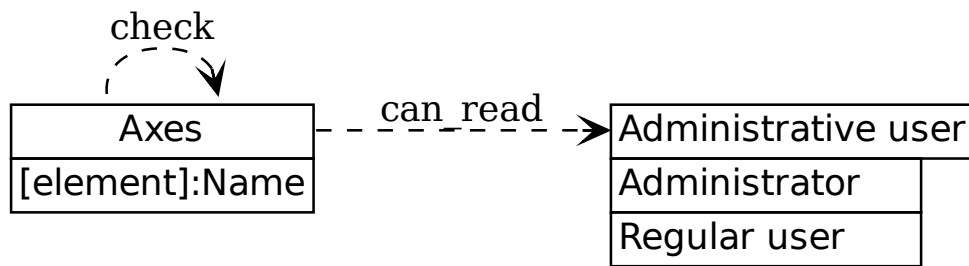
⇒

"Dot"

[Browse more samples](#)

14.23 Axes

map	renderer/known_axes/
Known axis combinations	



Retrieving the value is denied if not [administrative user](#)

This map does not support direct modification.

This map contains [Name](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command:

```
uom get "renderer/known_axes"
```

⇒

```
{"x2y2":"X2, Y2","x2y1":"X2, Y1","x1y1":"X1, Y1","x1y2":"X1, Y2"}
```

Sample requests read command:

```
print (requests.get('http://192.168.0.100/restapi/renderer/known_axes/', auth=auth, ↵
    ↵ headers=headers).json())
```

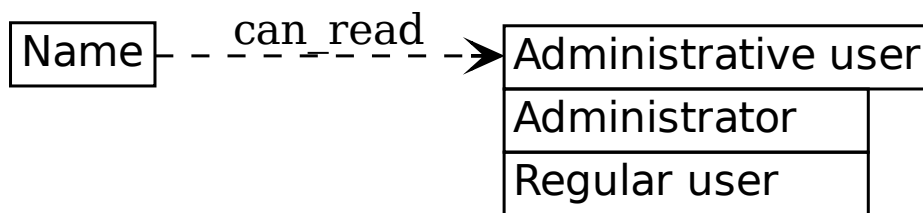
⇒

```
{'x2y2': 'X2, Y2', 'x2y1': 'X2, Y1', 'x1y1': 'X1, Y1', 'x1y2': 'X1, Y2'}
```

[Browse more samples](#)

14.23.1 Name

string	renderer/known_axes/S/
Name of axis combination	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

Sample uom library read command (note that `_name` is a variable):

```
print(uom.dump(uom.renderer.known_axes[_name]))
```

⇒

```
"X2, Y1"
```

Sample curl read command (note that `:name` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/renderer/known_axes/:name/"
```

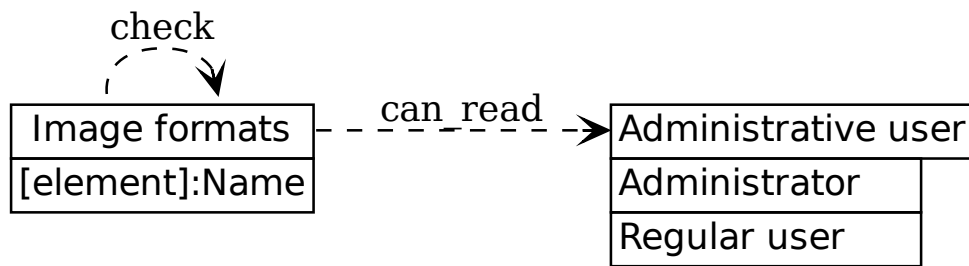
⇒

```
"X2, Y1"
```

[Browse more samples](#)

14.24 Image formats

map	renderer/known_image_formats/
Known image formats	



Retrieving the value is denied if not [administrative user](#)

This map does not support direct modification.

This map contains [Name](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command:

```
request.get({url:"renderer/known_image_formats/"},function(error,response,body) {
  ↪ console.log(body)});
```

⇒

```
{ "svg": "SVG", "gif": "GIF", "jpeg": "JPEG", "png": "PNG" }
```

Sample uom library read command:

```
print(uom.dump(uom.renderer.known_image_formats))
```

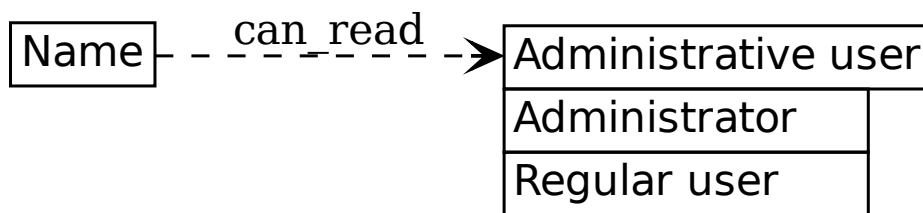
⇒

```
{ gif="GIF", jpeg="JPEG", png="PNG", svg="SVG" }
```

[Browse more samples](#)

14.24.1 Name

string	renderer/known_image_formats/S/
Name of image format	



Retrieving the value is denied if not [administrative user](#)

This string does not support direct modification.

Sample CLI read command (note that `name` is a variable):

```
uom get "rendererer/known_image_formats/${name}"
```

⇒

"GIF"

Sample `curl` read command (note that `:name` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/rendererer/known_image_formats/:name/"
```

⇒

"GIF"

[Browse more samples](#)

15 Credentials

object	cred/
Security attributes of agent performing request	

This object contains the following items:

name	Client username, if any
is_admin	Administrative user
outlet_access	Outlet access permissions
agent	Agent identifier
ip_address	Client IP address, if any

Sample requests write command:

```
requests.put('http://192.168.0.100/restapi/cred/', auth=auth, headers=headers, json ←
    ↪ ={'ip_address': '192.168.0.23', 'is_admin': True, 'name': 'admin', 'agent': ←
    ↪ 'web ui', 'outlet_access': [True, True, True, True, True, True, True, True ←
    ↪ ]})
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ←
    ↪ restapi/cred/"
```

⇒

```
{ "ip_address": "192.168.0.4", "is_admin": true, "name": "admin", "agent": "web ui", " ←
    ↪ outlet_access": [true, true, true, true, true, true, true, true] }
```

[Browse more samples](#)

15.1 Client username, if any

sum (optional string)	cred/name/
Username of the client, as verified by the agent, if any	

This sum does not support direct modification.

This sum can assume the following values:

constant null	Username absent or unknown	Username could not be obtained
string	Client username	Username of the client, as verified by the agent

Sample uom library read command:

```
print(uom.dump(uom.cred.name))
```

⇒

```
"admin"
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ←
    ↪ restapi/cred/name/"
```

⇒

```
"admin"
```

[Browse more samples](#)

15.2 Administrative user

sum (boolean)	cred/is_admin/
Flag indicating whether the user is an administrator	

This sum does not support direct modification.

This sum can assume the following values:

constant true	Administrator	The user is an administrator
constant false	Regular user	The user is a regular user

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/cred/is_admin/"
```

⇒

true

Sample `uom` library read command:

```
print(uom.dump(uom.cred.is_admin))
```

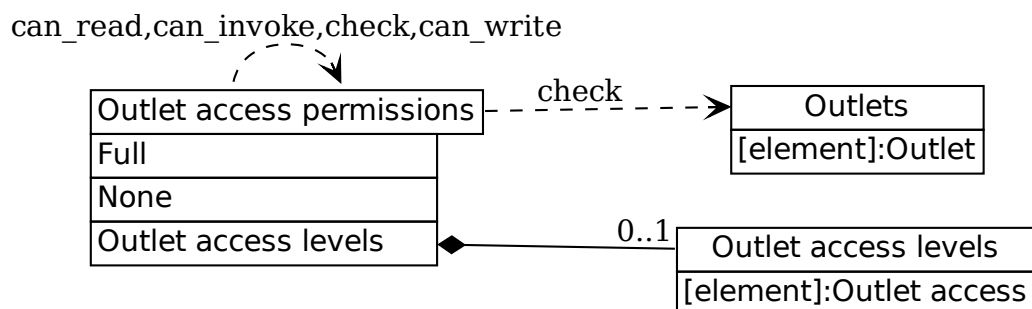
⇒

true

[Browse more samples](#)

15.3 Outlet access permissions

sum (variant)	cred/outlet_access/
Access settings for outlets	



The value is subject to the following constraints: any of the following is true:

- the value is equal to `true`
- the value is equal to `false`

- length of [the value](#) is equal to length of [outlets](#)

This sum is composite, i.e. is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Full	State of all outlets can be manipulated by the user
constant false	None	Outlet states cannot be neither seen nor manipulated by the user
array	Outlet access levels	Access levels per outlet

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/cred/outlet_access/', auth=auth, ↵
↵ headers=headers).json())
```

⇒

```
[True, True, True, True, True, True, True, True]
```

Sample `curl` read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/cred/outlet_access/"
```

⇒

```
[true,true,true,true,true,true,true,true]
```

[Browse more samples](#)

See also [Outlet access permissions: Outlet access levels](#)

15.4 Outlet access permissions: Outlet access levels

(possibly) array	cred/outlet_access/
Access levels per outlet	

This array is a part of a composite value which is modified as a whole.

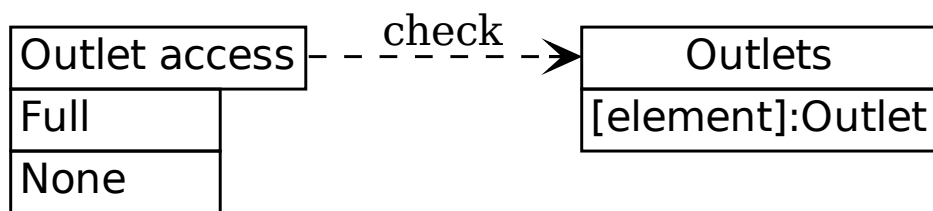
This array contains [Outlet access](#) elements.

Creating elements in this collection is not supported.

[Browse more samples](#)

15.4.1 Outlet access

sum (boolean)	cred/outlet_access/N/
Access level for outlet by index	



The value is subject to the following constraints: `outlets[index of the value]`

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Full	Outlet state can be manipulated by the user
constant false	None	Outlet state cannot be neither seen nor manipulated by the user

Sample `uom` library read command (note that `_outlet_access_index` is a variable):

```
print(uom.dump(uom.cred.outlet_access[_outlet_access_index]))
```

⇒

```
true
```

Sample `requests` read command (note that `_outlet_access_index` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/cred/outlet_access/'+str(
    ↪ _outlet_access_index)+'/', auth=auth, headers=headers).json())
```

⇒

```
True
```

[Browse more samples](#)

15.5 Agent identifier

string	<code>cred/agent/</code>
Identifier of the agent performing request	

This string does not support direct modification.

Sample uom library read command:

```
print(uom.dump(uom.cred.agent))
```

⇒

```
"web ui"
```

Sample CLI read command:

```
uom get "cred/agent"
```

⇒

```
"web ui"
```

[Browse more samples](#)

15.6 Client IP address, if any

sum (optional string)	cred/ip_address/
IPv4 address of the client performing request, if any	

This sum does not support direct modification.

This sum can assume the following values:

constant null	Client IP address absent or unknown	The request is performed locally, or its origin is unknown	
string	Client IP address	IPv4 address of the client performing request	the value matches <code>^([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5]).{3}([0-9] [1-9][0-9] 1[0-9]{2} 2[0-4][0-9] 25[0-5])\$</code>

Sample JS request read command:

```
request.get({url:"cred/ip_address/"},function(error,response,body){console.log(↵
    ↵ body)});
```

⇒

```
"192.168.0.6"
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵
    ↵ restapi/cred/ip_address/"
```

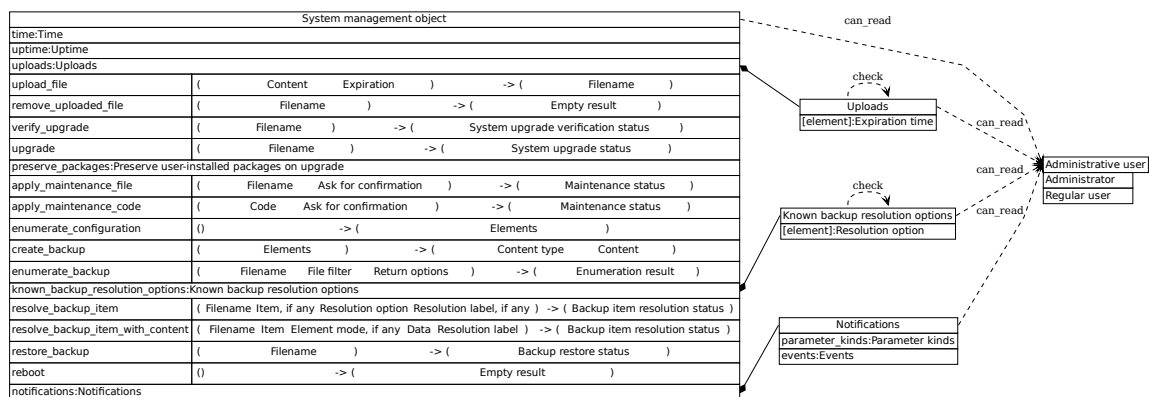
⇒

```
"192.168.0.78"
```

[Browse more samples](#)

16 System management object

object	system/
Object representing the system management state and configuration	



Retrieving the value is denied if not [administrative user](#)

This object contains the following items:

time	Time
uptime	Uptime
uploads	Uploads
upload_file	Upload file
remove_uploaded_file	Remove uploaded file
verify_upgrade	Verify upgrade image
upgrade	Upgrade from file
preserve_packages	Preserve user-installed packages on upgrade
apply_maintenance_file	Apply maintenance file
apply_maintenance_code	Apply maintenance code
enumerate_configuration	Enumerate configuration
create_backup	Create backup of configuration
enumerate_backup	Enumerate configuration from backup
known_backup_resolution_options	Known backup resolution options
resolve_backup_item	Resolve backup item
resolve_backup_item_with_content	Resolve backup item with custom content
restore_backup	Perform restoration of configuration from backup
reboot	Reboot
notifications	Notifications

Sample uom library write command:

```
uom.system=<...>
```

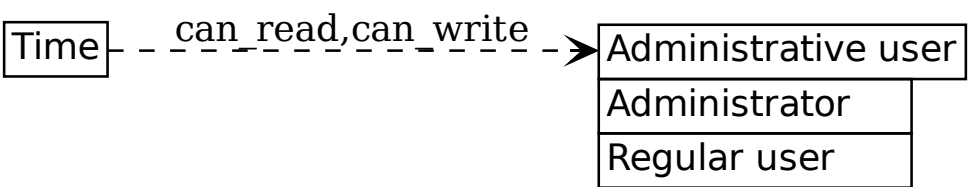
Sample CLI write command:

```
uom set system ...
```

[Browse more samples](#)

16.1 Time

number	system/time/
The current system time	



The value represents time, the standard unit of which is the second (s).

Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if not [administrative user](#)

This number can change as if by itself or indirectly because of other actions.

Changes to this number cannot be tracked.

Sample CLI write command:

```
uom set "system/time" "1798528493.95"
```

Sample curl read command:

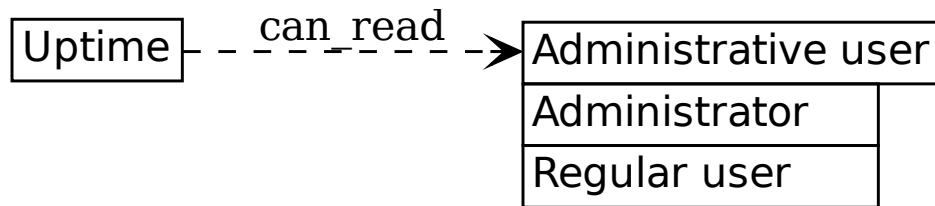
```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵  
↵ restapi/system/time/"
```

```
⇒  
1658670331.25
```

[Browse more samples](#)

16.2 Uptime

number	system/uptime/
The time since latest system reboot	



The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater or equal to 0

Retrieving the value is denied if not [administrative user](#)

This number does not support direct modification.

This number can change as if by itself or indirectly because of other actions.

Changes to this number cannot be tracked.

Sample CLI read command:

```
uom get "system/uptime"
```

⇒

```
121449006.42
```

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/system/uptime/', auth=auth, ↵
      ↵ headers=headers).json())
```

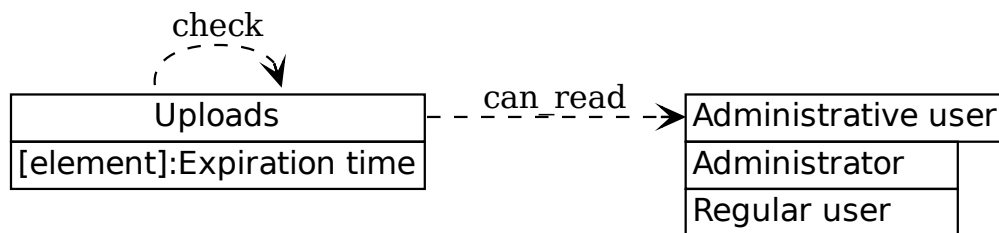
⇒

```
13943401.2
```

[Browse more samples](#)

16.3 Uploads

map	system/uploads/
Uploaded files	



Retrieving the value is denied if not [administrative user](#)

This map does not support direct modification.

This map can change as if by itself or indirectly because of other actions.

Changes to this map cannot be tracked.

This map contains [Expiration time](#) elements.

Creating elements in this collection is not supported.

Sample JS request read command:

```
request.get({url:"system/uploads/"},function(error,response,body) {console.log(↵
  ↵ body)});
```

⇒

```
{"/tmp/uploads/.tmp-uploadf6ZIfV":73.83,"/tmp/uploads/.tmp-uploadLab9s8":50.99,"/↵
  ↵ tmp/uploads/.tmp-uploadgudgzz":88.72,"/tmp/uploads/.tmp-uploadrR00jU↵
  ↵ ":82.07}
```

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/↵
  ↵ restapi/system/uploads/"
```

⇒

```
{"/tmp/uploads/.tmp-uploadnTmih3":61.78}
```

[Browse more samples](#)

16.3.1 Expiration time

number	system/uploads/S/
The time after which the file is to be deleted	

The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

Sample CLI read command (note that `expiration_time` is a variable):

```
uom get "system/uploads/${expiration_time}"
```

⇒

42.65

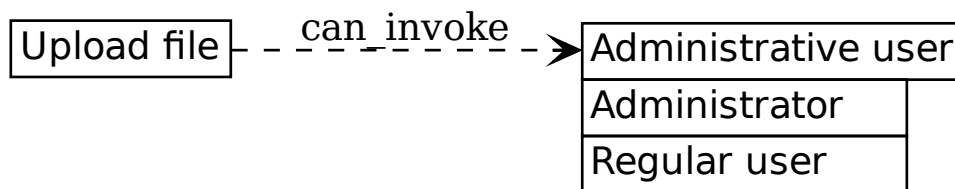
Sample `requests` write command (note that `_expiration_time` is a variable):

```
requests.put('http://192.168.0.100/restapi/system/uploads/'+_expiration_time+'/', ←  
    ↪ auth=auth,headers=headers,json=86.86)
```

[Browse more samples](#)

16.4 Upload file

call	system/upload_file/
Store the file in temporary storage for a given amount of time	



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

1. Content: string
2. Expiration: number

The call returns the following results:

1. Filename: string

Sample JS `request` invocation:

```
request.post({url:"system/upload_file/",body:["93 ↵  
↵ e34e07a5b98fed66c899333de4432c0bf88c86e672fc98b494c32bc9bbf576dd830f5f0e47c51d9491543697a9d  
↵ ",31]}});
```

⇒

```
"/tmp/uploads/.tmp-uploadFlqrN5"
```

Sample CLI invocation:

```
uom invoke "system/upload_file" "\"53877 ↵  
↵ c1274135e344b6ae24971c3e0d0cee5534d1a673ff937fcda5b56c92e222851622b40b327a4207d4bb47fa66e0c  
↵ \" \"95"
```

⇒

```
"/tmp/uploads/.tmp-uploadrm3ICV"
```

[Browse more samples](#)

16.4.1 Content

string	system/upload_file/arguments: 1/
File content	

The value contains application/octet-stream data.

This string does not correspond to an actual resource.

16.4.2 Expiration

number	system/upload_file/arguments: 2/
The time after which the file is to be deleted	

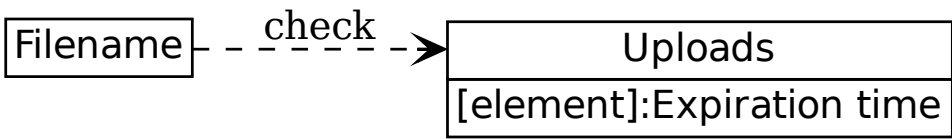
The value represents time, the standard unit of which is the second (s).

The value is subject to the following constraints: [the value](#) is greater than 0

This number does not correspond to an actual resource.

16.4.3 Filename

string	system/upload_file/results: 1/
Name of the uploaded file	

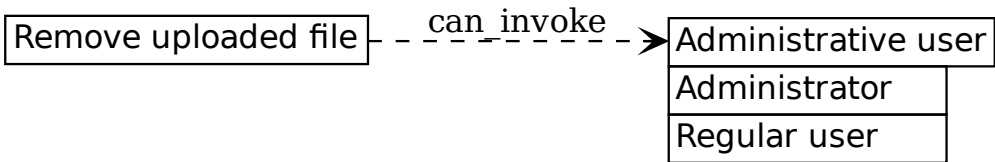


The value is subject to the following constraints: [uploads\[the value\]](#)

This string does not correspond to an actual resource.

16.5 Remove uploaded file

call	system/remove_uploaded_file/
Remove file from temporary storage	



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

- 1. Filename: string

The call returns the following results:

- 1. Empty result: null

Sample CLI invocation:

```
uom invoke "system/remove_uploaded_file" "\"/tmp/uploads/.tmp-uploadhng1ns\""
```

⇒

null

Sample uom library invocation:

```
print(uom.dump(uom.system.remove_uploaded_file("/tmp/uploads/.tmp-uploadNQttp6")) ←  
      ↪ )
```

⇒

null

[Browse more samples](#)

16.5.1 Filename

string	system/remove_uploaded_file/arguments: 1/
Name of the uploaded file to be removed (if invalid, the call has no effect)	

This string does not correspond to an actual resource.

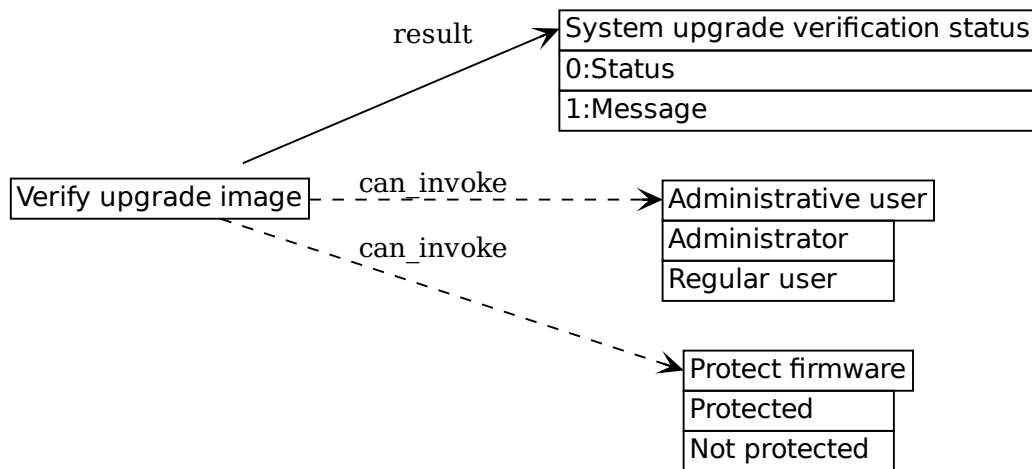
16.5.2 Empty result

constant null	system/remove_uploaded_file/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

16.6 Verify upgrade image

call	system/verify_upgrade/
Check that system upgrade from a file in temporary storage is possible	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [protect firmware](#)

The call accepts the following arguments:

1. Filename: string

The call returns the following results:

1. System upgrade verification status: (Succeeded or Failed,string)

Sample `curl` invocation:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
↵ "Accept: application/json" --data-binary "[\"/tmp/uploads/.tmp- ↵
↵ uploadvF3auD\""] "http://192.168.0.100/restapi/system/verify_upgrade/"
```

⇒

```
[true,"verify_upgrade succeeded"]
```

Sample `uom` library invocation:

```
print(uom.dump(uom.system.verify_upgrade("/tmp/uploads/.tmp-upload3L7E25")))
```

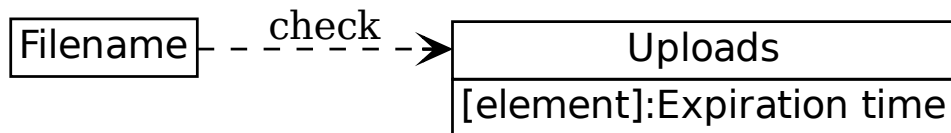
⇒

```
{true,"verify_upgrade succeeded"}
```

[Browse more samples](#)

16.6.1 Filename

string	system/verify_upgrade/arguments: 1/
System upgrade image filename	



The value is subject to the following constraints: [uploads\[the value\]](#)

This string does not correspond to an actual resource.

See also [Verify upgrade image: System upgrade verification status](#)

16.7 Verify upgrade image: System upgrade verification status

tuple	system/verify_upgrade/results: 1/
Status of the system upgrade verification	

This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Status
2	Message

16.7.1 Status

sum (boolean)	system/verify_upgrade/results: 1/1/
Indicates whether the call succeeded	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Succeeded	The call succeeded (but not necessarily completed)
constant false	Failed	The call failed (additional information in the message)

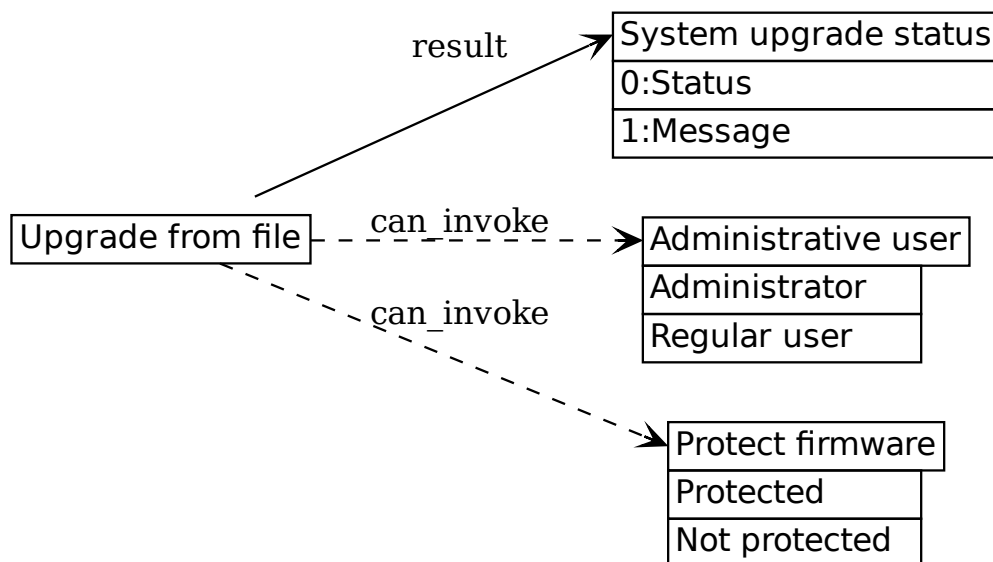
16.7.2 Message

string	system/verify_upgrade/results: 1/2/
Call status message	

This string does not correspond to an actual resource.

16.8 Upgrade from file

call	system/upgrade/
Perform system upgrade from a file in temporary storage	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [protect firmware](#)

The call accepts the following arguments:

1. Filename: string

The call returns the following results:

1. System upgrade status: (Succeeded or Failed,string)

Sample uom library invocation:

```
print(uom.dump(uom.system.upgrade("/tmp/uploads/.tmp-uploadCH9Qds")))
```

⇒

```
{false, "upgrade failed"}
```

Sample CLI invocation:

```
uom invoke "system/upgrade" "\"/tmp/uploads/.tmp-upload2Guvk4\""
```

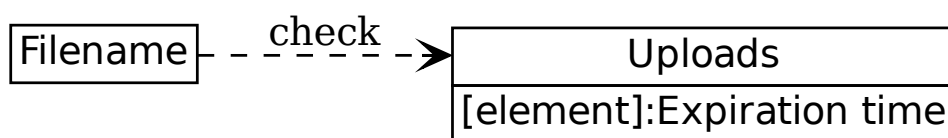
⇒

```
[false, "upgrade failed"]
```

[Browse more samples](#)

16.8.1 Filename

string	system/upgrade/arguments: 1/
System upgrade image filename	



The value is subject to the following constraints: [uploads\[the value\]](#)

This string does not correspond to an actual resource.

See also [Upgrade from file: System upgrade status](#)

16.9 Upgrade from file: System upgrade status

tuple	system/upgrade/results: 1/
Status of the system upgrade	

This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Status
2	Message

16.9.1 Status

sum (boolean)	system/upgrade/results: 1/1/
Indicates whether the call succeeded	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Succeeded	The call succeeded (but not necessarily completed)
constant false	Failed	The call failed (additional information in the message)

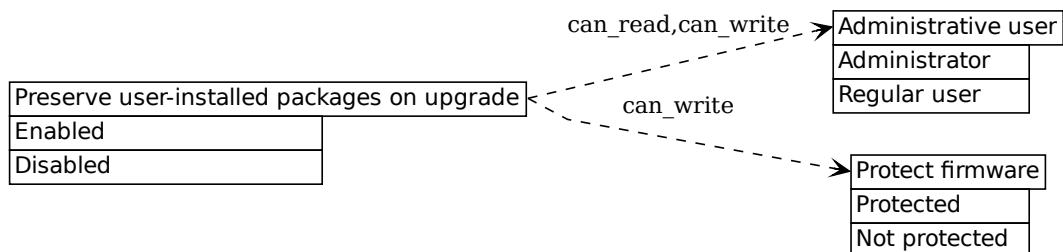
16.9.2 Message

string	system/upgrade/results: 1/2/
Call status message	

This string does not correspond to an actual resource.

16.10 Preserve user-installed packages on upgrade

sum (boolean)	system/preserve_packages/
Save a list of packages manually installed by the user, download and install them again on system upgrade	



Retrieving the value is denied if not [administrative user](#)

Changing the value is denied if any of the following is true:

- not [administrative user](#)

- [protect firmware](#)

This sum represents a value in persistent storage.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

Sample `curl` write command:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary "[]" "http ↵
↵ ://192.168.0.100/restapi/system/preserve_packages/"
```

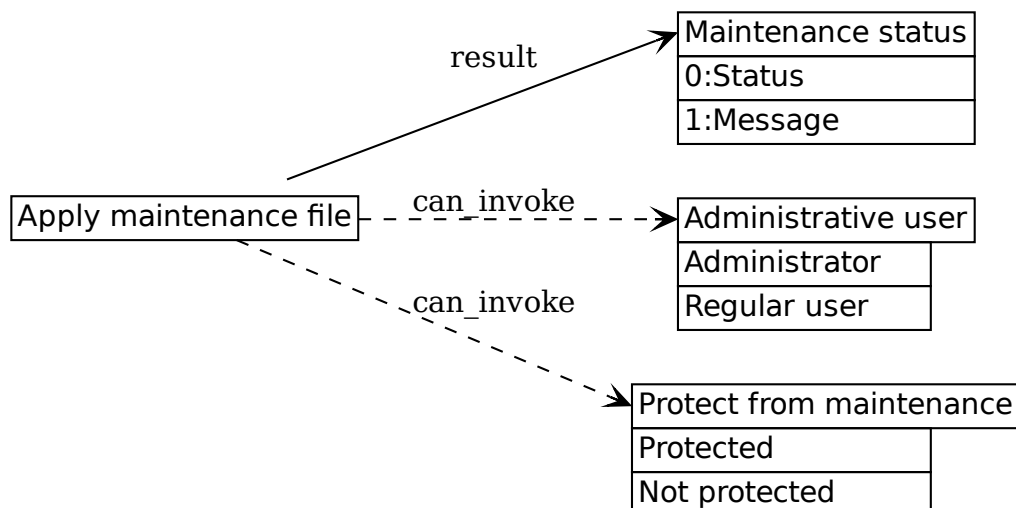
Sample `uom` library write command:

```
uom.system.preserve_packages={}
```

[Browse more samples](#)

16.11 Apply maintenance file

call	system/apply_maintenance_file/
Perform maintenance from a file in temporary storage	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)

- [protect from maintenance](#)

The call accepts the following arguments:

1. Filename: string
2. Ask for confirmation: Enabled or Disabled

The call returns the following results:

1. Maintenance status: (Succeeded or Failed,string)

Sample CLI invocation:

```
uom invoke "system/apply_maintenance_file" "\"/tmp/uploads/.tmp-upload168hPV\" " " ↵  
↵ true"
```

⇒

```
[false,"maintenance failed"]
```

Sample curl invocation:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵  
↵ "Accept: application/json" --data-binary "[\"/tmp/uploads/.tmp- ↵  
↵ uploadjN8oqP\",false]" "http://192.168.0.100/restapi/system/ ↵  
↵ apply_maintenance_file/"
```

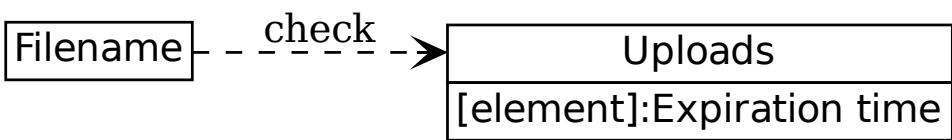
⇒

```
[true,"maintenance succeeded"]
```

[Browse more samples](#)

16.11.1 Filename

string	system/apply_maintenance_file/arguments: 1/
Maintenance filename	



The value is subject to the following constraints: [uploads\[the value\]](#)

This string does not correspond to an actual resource.

16.11.2 Ask for confirmation

sum (boolean)	system/apply_maintenance_file/arguments: 2/
Ask the user for confirmation (if enabled in the maintenance package)	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

See also [Apply maintenance file: Maintenance status](#)

16.12 Apply maintenance file: Maintenance status

tuple	system/apply_maintenance_file/results: 1/
Status of the maintenance	

This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Status
2	Message

16.12.1 Status

sum (boolean)	system/apply_maintenance_file/results: 1/1/
Indicates whether the call succeeded	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Succeeded	The call succeeded (but not necessarily completed)
constant false	Failed	The call failed (additional information in the message)

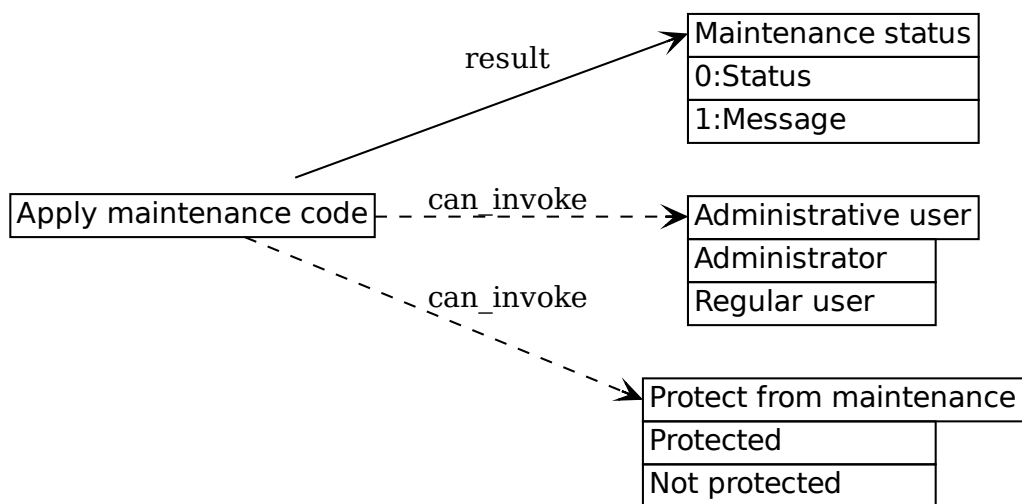
16.12.2 Message

string	system/apply_maintenance_file/results: 1/2/
Call status message	

This string does not correspond to an actual resource.

16.13 Apply maintenance code

call	system/apply_maintenance_code/
Perform maintenance using a code	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [protect from maintenance](#)

The call accepts the following arguments:

1. Code: string
2. Ask for confirmation: Enabled or Disabled

The call returns the following results:

1. Maintenance status: (Succeeded or Failed,string)

Sample uom library invocation:

```
print(uom.dump(uom.system.apply_maintenance_code("v { :O8m#$ylsD[zO=Vg$Wjt=DZ", ↵
↵ true)))
```

⇒

```
{true, "maintenance succeeded"}
```

Sample curl invocation:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵
↵ "Accept: application/json" --data-binary "[\"Z:B$8G&]E>.r{)6~^Sy#R3MHo?0kn ↵
↵ -;\",true]" "http://192.168.0.100/restapi/system/apply_maintenance_code/"
```

⇒

```
[false, "maintenance failed"]
```

[Browse more samples](#)

16.13.1 Code

string	system/apply_maintenance_code/arguments: 1/
Maintenance code	

This string does not correspond to an actual resource.

16.13.2 Ask for confirmation

sum (boolean)	system/apply_maintenance_code/arguments: 2/
Ask the user for confirmation (if enabled in the maintenance package)	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

See also [Apply maintenance code: Maintenance status](#)

16.14 Apply maintenance code: Maintenance status

tuple	system/apply_maintenance_code/results: 1/
Status of the maintenance	

This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Status
2	Message

16.14.1 Status

sum (boolean)	system/apply_maintenance_code/results: 1/1/
Indicates whether the call succeeded	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Succeeded	The call succeeded (but not necessarily completed)
constant false	Failed	The call failed (additional information in the message)

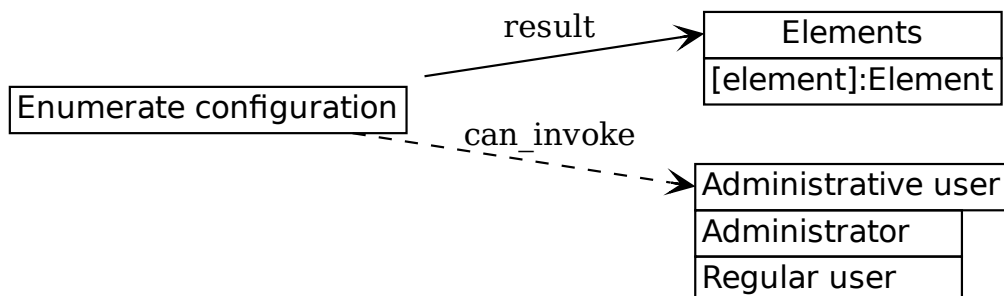
16.14.2 Message

string	system/apply_maintenance_code/results: 1/2/
Call status message	

This string does not correspond to an actual resource.

16.15 Enumerate configuration

call	system/enumerate_configuration/
Retrieve a map of the currently existing configuration elements and their state	



Performing the function call is denied if not [administrative user](#)

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Elements: map of "object "Element""

Sample uom library invocation:

```
print(uom.dump(uom.system.enumerate_configuration()))
```

⇒

<...>

Sample CLI invocation:

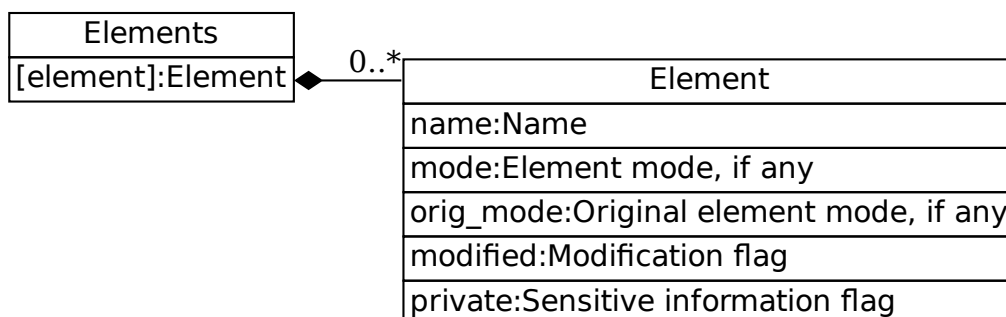
```
uom invoke "system/enumerate_configuration"
```

⇒

[Browse more samples](#)

16.15.1 Elements

map	system/enumerate_configuration/results: 1/
Currently known configuration elements	



This map does not correspond to an actual resource.

This map contains [Element](#) elements.

See also [Elements: Element](#)

16.16 Elements: Element

object	system/enumerate_configuration/results: 1/S/
Configuration element state	

This object does not correspond to an actual resource.

This object contains the following items:

name	Name
mode	Element mode, if any
orig_mode	Original element mode, if any
modified	Modification flag
private	Sensitive information flag

16.16.1 Name

string	system/enumerate_configuration/results: 1/S/name/
Human-readable element name	

This string does not correspond to an actual resource.

16.16.2 Element mode, if any

sum (optional string)	system/enumerate_configuration/results: 1/S/mode/
Current element file mode, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Absent	The element is absent	
string	File	Regular file	the value matches <code>^[r-][w-][xsS-][r-][w-][xsS-][r-][w-][xtT-]\$\</code>
string	Directory	Directory or other logical grouping of files	the value matches <code>^d[r-][w-][xsS-][r-][w-][xsS-][r-][w-][xtT-]\$\</code>
constant "lrwxrwxrwx"	Symlink	Symbolic link to location in data	

16.16.3 Original element mode, if any

sum (optional string)	system/enumerate_configuration/results: 1/S/orig_mode/
Factory default element file mode, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Absent	The element was absent	
string	File	Regular file	the value matches <code>^-[r-][w-][xsS-][r-][w-][xsS-][r-][w-][xtT-]\$\</code>
string	Directory	Directory or other logical grouping of files	the value matches <code>^d[r-][w-][xsS-][r-][w-][xsS-][r-][w-][xtT-]\$\</code>
constant "lrwxrwxrwx"	Symlink	Symbolic link to location in data	

16.16.4 Modification flag

sum (boolean)	system/enumerate_configuration/results: 1/S/modified/
Flag indicating if the element has been modified from the factory default configuration	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Modified	The element was modified
constant false	Original	The element was not modified

16.16.5 Sensitive information flag

sum (boolean)	system/enumerate_configuration/results: 1/S/private/
Flag indicating if the element may contain sensitive information	

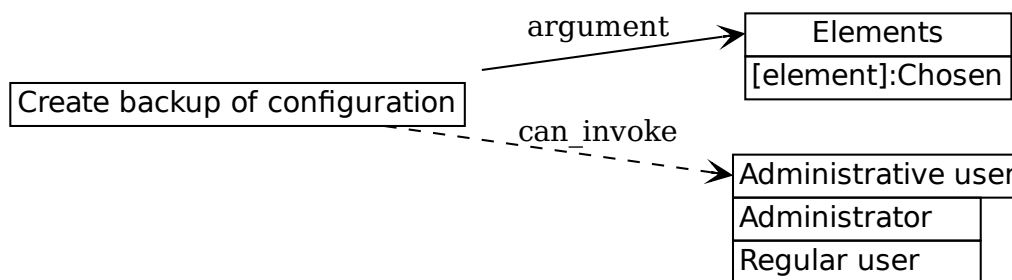
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Private	The element may contain sensitive information
constant false	Ordinary	The element likely doesn't contain sensitive information

16.17 Create backup of configuration

call	system/create_backup/
Create a backup of selected parts of the current configuration	



Performing the function call is denied if not [administrative user](#)

The call accepts the following arguments:

1. Elements: map of "true"

The call returns the following results:

1. Content type: string
2. Content: string

Sample requests invocation:

```
print(requests.post('http://192.168.0.100/restapi/system/create_backup/', auth= ↵
    ↵ auth, headers=headers, json=[{'/src/ebCv2Z8-': True, '/src/sKhjWtsV': True, ↵
    ↵ '/storage/5pTyuuMN8sZ': True}]).json())
```

⇒

Sample CLI invocation:

```
uom invoke "system/create_backup" "{\"/etc/config/_Xmf9Sl0ExC\":true,\"/etc/ ↵
    ↵ config/GODnGi\":true}"
```

⇒

[Browse more samples](#)

See also [Create backup of configuration: Elements](#)

16.17.1 Content type

constant "application/octet-stream"	system/create_backup/results: 1/
The content type of the generated backup	

The value is subject to the following constraints: [the value](#) is equal to application/octet-stream

This constant does not correspond to an actual resource.

16.17.2 Content

string	system/create_backup/results: 2/
File content	

The value contains application/octet-stream data.

This string does not correspond to an actual resource.

16.18 Create backup of configuration: Elements

map	system/create_backup/arguments: 1/
Configuration elements chosen for backup	

This map does not correspond to an actual resource.

This map contains [Chosen](#) elements.

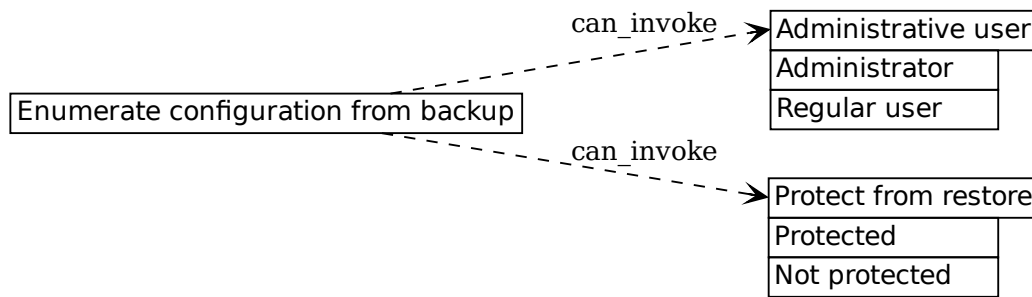
16.18.1 Chosen

constant true	system/create_backup/arguments: 1/S/
The element is chosen to be backed up	

This constant does not correspond to an actual resource.

16.19 Enumerate configuration from backup

call	system/enumerate_backup/
Compare backup contents to current configuration state and return resolution status	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [protect from restore](#)

The call accepts the following arguments:

1. Filename: string
2. File filter: All, None, Resolved, Unresolved, Next unresolved or array of "string"
3. Return options: Enabled or Disabled

The call returns the following results:

1. Enumeration result: map of "object "Element"" or Enumeration failure

Sample CLI invocation:

```
uom invoke "system/enumerate_backup" "\"/tmp/uploads/.tmp-uploadt1WtVC\"" "false" ↵
↵ "false"
```

⇒

```
"Something went wrong"
```

Sample requests invocation:

```
print(requests.post('http://192.168.0.100/restapi/system/enumerate_backup/', auth= ↵
↵ auth, headers=headers, json=['/tmp/uploads/.tmp-uploadLkRJYQ', False, True]). ↵
↵ json())
```

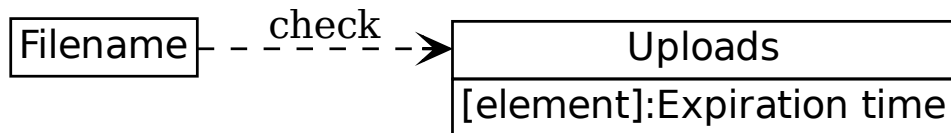
⇒

```
'Something went wrong'
```

[Browse more samples](#)

16.19.1 Filename

string	system/enumerate_backup/arguments: 1/
Backup filename	

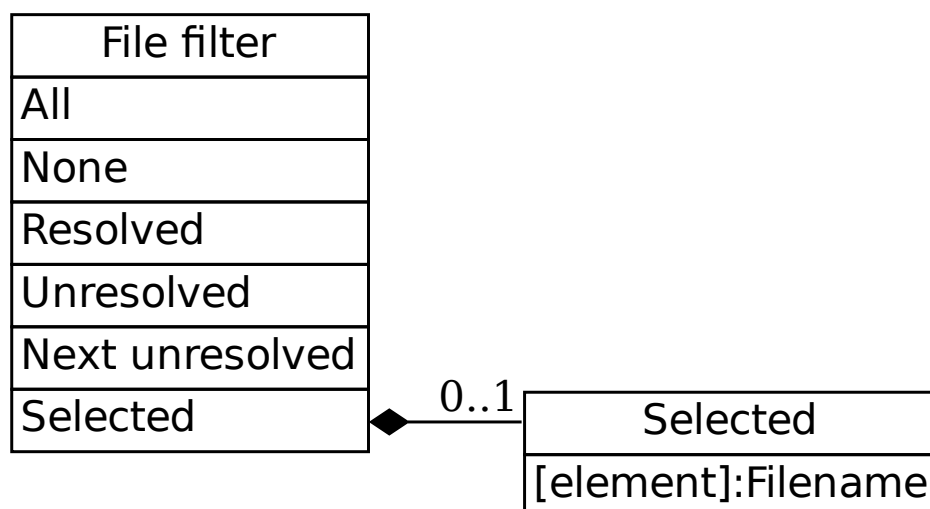


The value is subject to the following constraints: [uploads\[the value\]](#)

This string does not correspond to an actual resource.

16.19.2 File filter

sum (variant)	system/enumerate_backup/arguments: 2/
The set of files to be returned	



This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	All	Return information on all of the files
constant false	None	Return no information on the files, just check that the backup is valid
constant "resolved"	Resolved	Return information on all resolved files
constant "unresolved"	Unresolved	Return information on all unresolved files
constant "next_unresolved"	Next unresolved	Return information on the next set of unresolved files intended to be treated as a
array	Selected	Return information on the files in this array

See also [File filter: Selected](#)

16.19.3 Return options

sum (boolean)	system/enumerate_backup/arguments: 3/
Return options for unresolved elements	

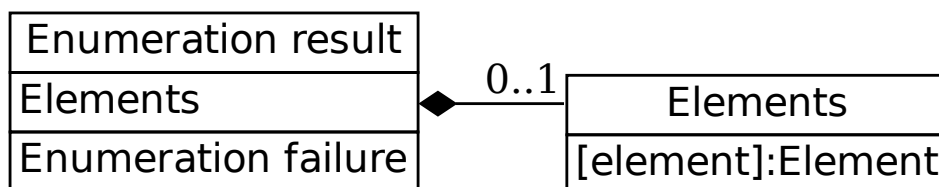
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Enabled	The feature is enabled
constant false	Disabled	The feature is disabled

16.19.4 Enumeration result

sum (variant)	system/enumerate_backup/results: 1/
Backup enumeration result	



This sum does not correspond to an actual resource.

This sum can assume the following values:

map	Elements	Backup configuration elements
string	Enumeration failure	Enumeration failure status message

See also [Enumeration result: Elements](#)

16.20 File filter: Selected

(possibly) array	system/enumerate_backup/arguments: 2/
Return information on the files in this array	

This array does not correspond to an actual resource.

This array contains [Filename](#) elements.

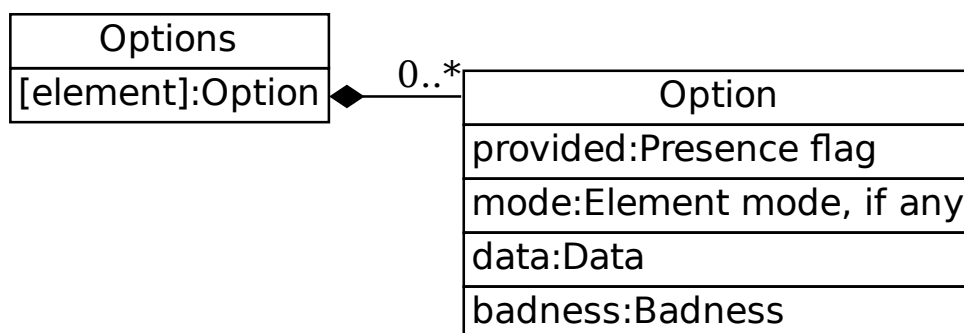
16.20.1 Filename

string	system/enumerate_backup/arguments: 2/N/
Return information on this file	

This string does not correspond to an actual resource.

16.21 Resolution option(s): Options

(possibly) map	system/enumerate_backup/results: 1/S/resolution/
Resolution options	



This map does not correspond to an actual resource.

This map contains [Option](#) elements.

16.21.1 Option

object	system/enumerate_backup/results: 1/S/resolution/S/
Resolution option	

This object does not correspond to an actual resource.

This object contains the following items:

provided	Presence flag
mode	Element mode, if any
data	Data
badness	Badness

sum (boolean)	system/enumerate_backup/results: 1/S/resolution/S/provided/
Flag indicating if the element data is provided in the response	

16.21.1.1 Presence flag This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Present	The element data is provided
constant false	Absent	The element data is not provided

sum (optional string)	system/enumerate_backup/results: 1/S/resolution/S/mode/
Element file mode in this resolution option, if any	

16.21.1.2 Element mode, if any This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Absent	The element does not exist	
string	File	Regular file	the value matches <code>^[r-][w-][xsS-][r-][w-][xsS-][r-][w-][xtT-]\$</code>
string	Directory	Directory or other logical grouping of files	the value matches <code>^d[r-][w-][xsS-][r-][w-][xsS-][r-][w-][xtT-]\$</code>
constant "lrwxrwxrwx"	Symlink	Symbolic link to location in data	

string	system/enumerate_backup/results: 1/S/resolution/S/data/
Element data, if exists and provided (or empty otherwise)	

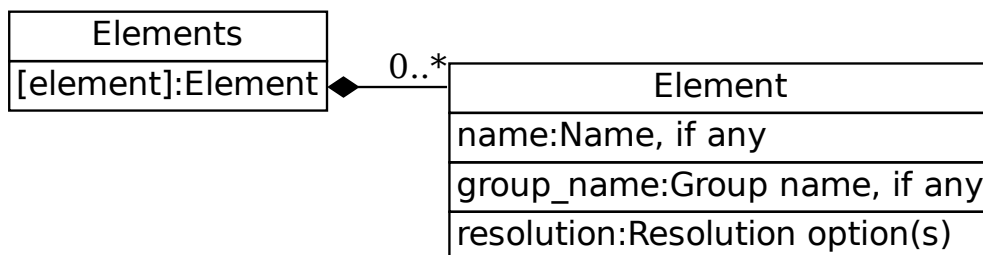
16.21.1.3 Data This string does not correspond to an actual resource.

number	system/enumerate_backup/results: 1/S/resolution/S/badness/
Relative extent of resolution option demerit	

16.21.1.4 Badness This number does not correspond to an actual resource.

16.22 Enumeration result: Elements

(possibly) map	system/enumerate_backup/results: 1/
Backup configuration elements	



This map does not correspond to an actual resource.

This map contains [Element](#) elements.

16.22.1 Element

object	system/enumerate_backup/results: 1/S/
Backup element data	

This object does not correspond to an actual resource.

This object contains the following items:

name	Name, if any
group_name	Group name, if any
resolution	Resolution option(s)

sum (optional string)	system/enumerate_backup/results: 1/S/name/
Human-readable element name, if any	

16.22.1.1 Name, if any This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Unknown	This element is not known
string	Name	Human-readable element name

sum (optional string)	system/enumerate_backup/results: 1/S/group_name/
Human-readable element group name, if any	

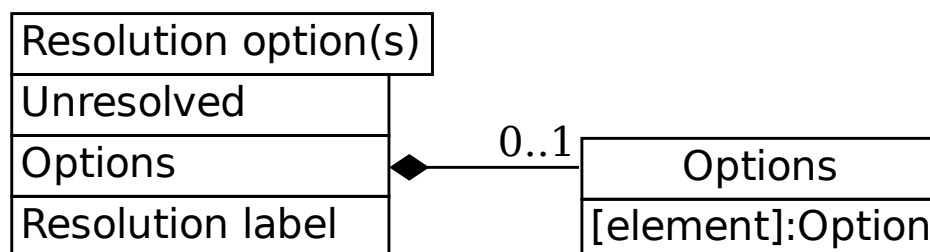
16.22.1.2 Group name, if any This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	None	This element does not belong to a group
string	Group name	Human-readable element group name

sum (variant)	system/enumerate_backup/results: 1/S/resolution/
Resolution for resolved elements, or options for unresolved ones if requested	

16.22.1.3 Resolution option(s)



This sum does not correspond to an actual resource.

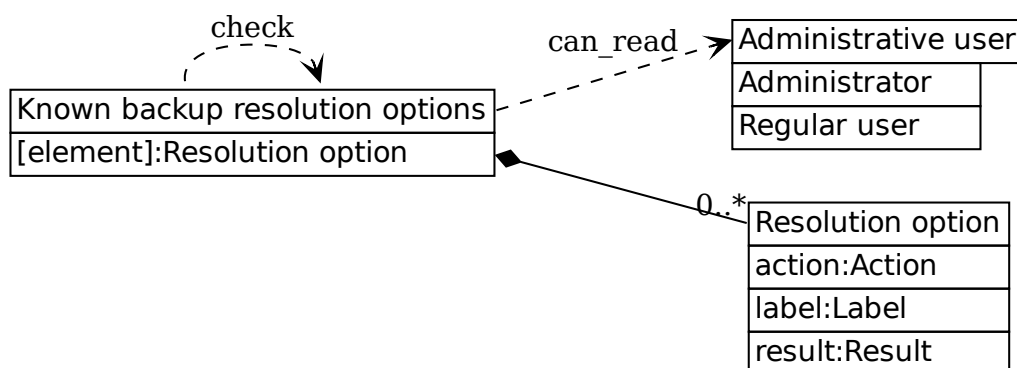
This sum can assume the following values:

constant false	Unresolved	The element is resolved and option information not requested
map	Options	Resolution options
string	Resolution label	Label for a resolved backup element for reference

See also [Resolution option\(s\): Options](#)

16.23 Known backup resolution options

map	system/known_backup_resolution_options/
Known methods of resolving file content	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Resolution option](#) elements.

Creating elements in this collection is not supported.

Sample uom library read command:

```
print(uom.dump(uom.system.known_backup_resolution_options))
```

⇒

Sample JS request read command:

```
request.get({url:"system/known_backup_resolution_options/"},function(error, ↵
    ↵ response,body) {console.log(body)});
```

⇒

[Browse more samples](#)

See also [Known backup resolution options: Resolution option](#)

16.24 Known backup resolution options: Resolution option

object	system/known_backup_resolution_options/S/
Resolution option traits	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

action	Action
label	Label
result	Result

Sample CLI write command (note that `resolution_option` is a variable):

```
uom set "system/known_backup_resolution_options/${resolution_option}" "{\"result" ↵
↵ \": \"merged\", \"action\": \"apply our changes to backup original file\", \" ↵
↵ label\": \"backup original with our changes\"}"
```

Sample requests write command (note that `_resolution_option` is a variable):

```
requests.put('http://192.168.0.100/restapi/system/known_backup_resolution_options ↵
↵ /'+_resolution_option+'/', auth=auth, headers=headers, json={'result': ' ↵
↵ replaced', 'action': 'replace with backup file', 'label': 'backup file'})
```

[Browse more samples](#)

16.24.1 Action

string	system/known_backup_resolution_options/S/action/
Backup resolution method action description	

This string is a part of a composite value which is modified as a whole.

Sample JS request write command (note that `_resolution_option` is a variable):

```
request.put({url:"system/known_backup_resolution_options/"+_resolution_option+"/ ↵
↵ action/", body:"apply our changes to backup file"});
```

Sample CLI read command (note that `resolution_option` is a variable):

```
uom get "system/known_backup_resolution_options/${resolution_option}/action"
```

⇒

```
"apply changes in the backup to our original file"
```

[Browse more samples](#)

16.24.2 Label

string	system/known_backup_resolution_options/S/label/
Backup resolution method label	

This string is a part of a composite value which is modified as a whole.

Sample uom library write command (note that `_resolution_option` is a variable):

```
uom.system.known_backup_resolution_options[_resolution_option].label="backup file ↵
↵ with current changes"
```

Sample CLI read command (note that `resolution_option` is a variable):

```
uom get "system/known_backup_resolution_options/${resolution_option}/label"
```

⇒

```
"current file"
```

[Browse more samples](#)

16.24.3 Result

string	system/known_backup_resolution_options/S/result/
Backup resolution method resolution description	

This string is a part of a composite value which is modified as a whole.

Sample requests read command (note that `_resolution_option` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/system/ ↵
↵ known_backup_resolution_options/'+_resolution_option+'/result/',auth=auth, ↵
↵ headers=headers).json())
```

⇒

```
'unchanged'
```

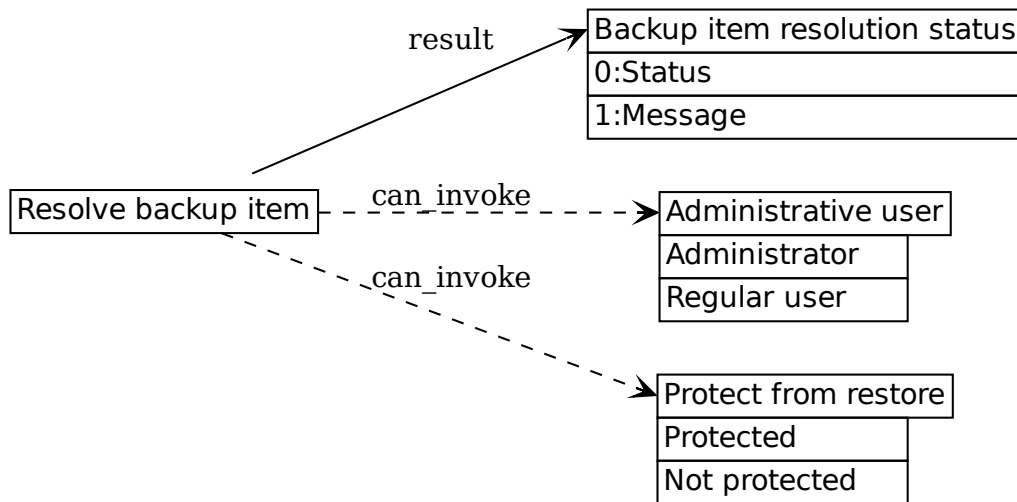
Sample uom library write command (note that `_resolution_option` is a variable):

```
uom.system.known_backup_resolution_options[_resolution_option].result="replaced"
```

[Browse more samples](#)

16.25 Resolve backup item

call	system/resolve_backup_item/
Provide a resolution on an item	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [protect from restore](#)

The call accepts the following arguments:

1. Filename: string
2. Item, if any: All unresolved items or Item
3. Resolution option: string
4. Resolution label, if any: Default label or Resolution label

The call returns the following results:

1. Backup item resolution status: (Succeeded or Failed,string)

Sample requests invocation:

```
print(requests.post('http://192.168.0.100/restapi/system/resolve_backup_item/',
    ↪ auth=auth,headers=headers,json=['/tmp/uploads/.tmp-upload9apRVt', '/storage
    ↪ /zX46ZPQwu', 'our_orig_and_their_diff', None]).json())
```

⇒

```
[True, 'resolve succeeded']
```

Sample JS request invocation:

```
request.post({url:"system/resolve_backup_item/",body:["/tmp/uploads/.tmp-
    ↪ uploadsIwXoW",null,"their_file",null]});
```

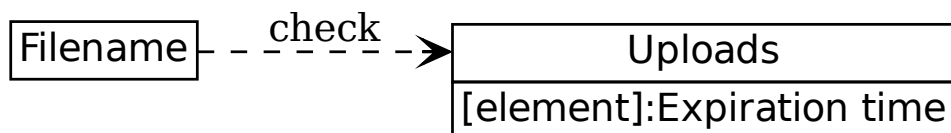
⇒

```
[false,"resolve failed"]
```

[Browse more samples](#)

16.25.1 Filename

string	system/resolve_backup_item/arguments: 1/
Backup filename	



The value is subject to the following constraints: [uploads\[the value\]](#)

This string does not correspond to an actual resource.

16.25.2 Item, if any

sum (optional string)	system/resolve_backup_item/arguments: 2/
Backup item, if any	

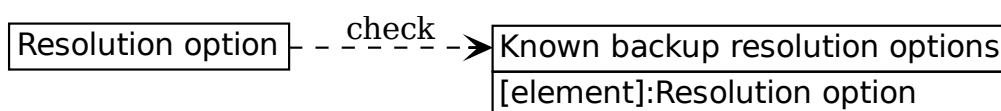
This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	All unresolved items	Provide a resolution on all unresolved items where applicable
string	Item	Backup item

16.25.3 Resolution option

string	system/resolve_backup_item/arguments: 3/
Backup item resolution option	



The value is subject to the following constraints: [known backup resolution options](#)[the value]

This string does not correspond to an actual resource.

16.25.4 Resolution label, if any

sum (optional string)	system/resolve_backup_item/arguments: 4/
Backup item resolution label for reference, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Default label	Use the default resolution option label
string	Resolution label	Backup item resolution label for reference

See also [Resolve backup item: Backup item resolution status](#)

16.26 Resolve backup item: Backup item resolution status

tuple	system/resolve_backup_item/results: 1/
Status of the backup item resolution	

This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Status
2	Message

16.26.1 Status

sum (boolean)	system/resolve_backup_item/results: 1/1/
Indicates whether the call succeeded	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Succeeded	The call succeeded (but not necessarily completed)
constant false	Failed	The call failed (additional information in the message)

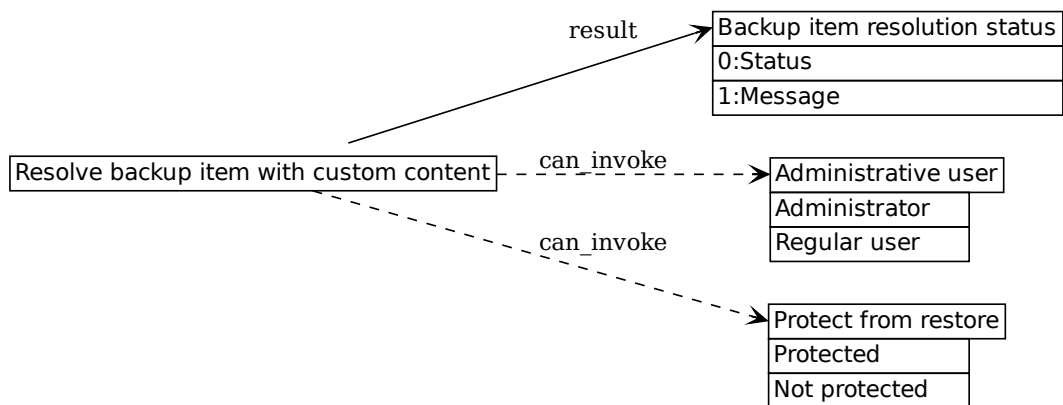
16.26.2 Message

string	system/resolve_backup_item/results: 1/2/
Call status message	

This string does not correspond to an actual resource.

16.27 Resolve backup item with custom content

call	system/resolve_backup_item_with_content/
Provide a custom decision on an item (may not always be possible)	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [protect from restore](#)

The call accepts the following arguments:

1. Filename: string
2. Item: string
3. Element mode, if any: Absent, File, Directory or Symlink
4. Data: string
5. Resolution label: string

The call returns the following results:

1. Backup item resolution status: (Succeeded or Failed,string)

Sample CLI invocation:

```
uom invoke "system/resolve_backup_item_with_content" "\"/tmp/uploads/.tmp- ↵
↵ uploadhcCh9r\" \" \" /etc/eBfZge\" \" \"null\" \" \" \" \" \"our file and their diff ↵
↵ \" \"
```

⇒

```
[true, "resolve succeeded"]
```

Sample uom library invocation:

```
print(uom.dump(uom.system.resolve_backup_item_with_content("/tmp/uploads/.tmp- ↵
↵ uploadJUN5Dp", "/src/AbzoUBWS", null, "", "our diff ")))
```

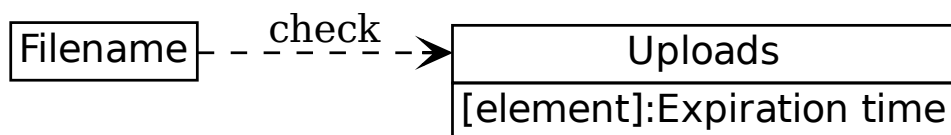
⇒

```
{false, "resolve failed"}
```

[Browse more samples](#)

16.27.1 Filename

string	system/resolve_backup_item_with_content/arguments: 1/
Backup filename	



The value is subject to the following constraints: [uploads\[the value\]](#)

This string does not correspond to an actual resource.

16.27.2 Item

string	system/resolve_backup_item_with_content/arguments: 2/
Backup item	

This string does not correspond to an actual resource.

16.27.3 Element mode, if any

sum (optional string)	system/resolve_backup_item_with_content/arguments: 3/
Element file mode in this resolution, if any	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant null	Absent	The element does not exist in this resolution	
string	File	Regular file	the value matches <code>^[r-][w-][xsS-][r-][w-][xsS-][r-][w-][xtT-]\$\</code>
string	Directory	Directory or other logical grouping of files	the value matches <code>^d[r-][w-][xsS-][r-][w-][xsS-][r-][w-][xtT-]\$\</code>
constant "lrwxrwxrwx"	Symlink	Symbolic link to location in data	

16.27.4 Data

string	system/resolve_backup_item_with_content/arguments: 4/
Element data, if exists (or empty otherwise)	

This string does not correspond to an actual resource.

16.27.5 Resolution label

string	system/resolve_backup_item_with_content/arguments: 5/
Backup item resolution label for reference	

This string does not correspond to an actual resource.

See also [Resolve backup item with custom content: Backup item resolution status](#)

16.28 Resolve backup item with custom content: Backup item resolution status

tuple	system/resolve_backup_item_with_content/results: 1/
Status of the backup item resolution	

This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Status
2	Message

16.28.1 Status

sum (boolean)	system/resolve_backup_item_with_content/results: 1/1/
Indicates whether the call succeeded	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Succeeded	The call succeeded (but not necessarily completed)
constant false	Failed	The call failed (additional information in the message)

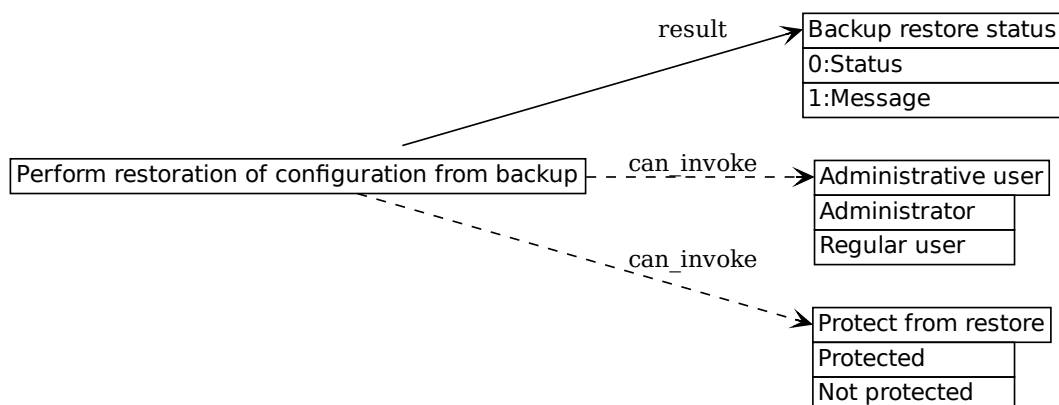
16.28.2 Message

string	system/resolve_backup_item_with_content/results: 1/2/
Call status message	

This string does not correspond to an actual resource.

16.29 Perform restoration of configuration from backup

call	system/restore_backup/
Apply restoration of resolved configuration backup items and reboot	



Performing the function call is denied if any of the following is true:

- not [administrative user](#)
- [protect from restore](#)

The call accepts the following arguments:

- 1. Filename: string

The call returns the following results:

- 1. Backup restore status: (Succeeded or Failed,string)

Sample uom library invocation:

```
print(uom.dump(uom.system.restore_backup("/tmp/uploads/.tmp-upload7bRVyj")))  
  
⇒  
{false,"restore failed"}
```

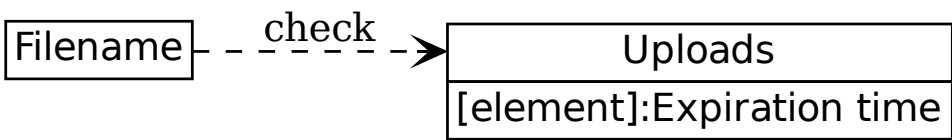
Sample curl invocation:

```
curl --digest -u admin:1234 -H "X-CSRF: x" -H "Content-type: application/json" -H ↵  
↵ "Accept: application/json" --data-binary "[\"/tmp/uploads/.tmp- ↵  
↵ uploadUImbhR\"]" "http://192.168.0.100/restapi/system/restore_backup/"  
  
⇒  
[true,"restore succeeded"]
```

[Browse more samples](#)

16.29.1 Filename

string	system/restore_backup/arguments: 1/
Backup filename	



The value is subject to the following constraints: [uploads\[the value\]](#)

This string does not correspond to an actual resource.

See also [Perform restoration of configuration from backup: Backup restore status](#)

16.30 Perform restoration of configuration from backup: Backup restore status

tuple	system/restore_backup/results: 1/
Status of the backup restore	

This tuple does not correspond to an actual resource.

This tuple contains the following items:

1	Status
2	Message

16.30.1 Status

sum (boolean)	system/restore_backup/results: 1/1/
Indicates whether the call succeeded	

This sum does not correspond to an actual resource.

This sum can assume the following values:

constant true	Succeeded	The call succeeded (but not necessarily completed)
constant false	Failed	The call failed (additional information in the message)

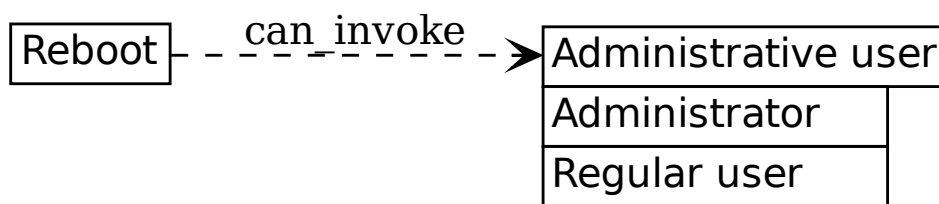
16.30.2 Message

string	system/restore_backup/results: 1/2/
Call status message	

This string does not correspond to an actual resource.

16.31 Reboot

call	system/reboot/
Reboot the unit	



Performing the function call is denied if not [administrative user](#)

The call has no arguments (supply empty tuple).

The call returns the following results:

1. Empty result: null

Sample `requests` invocation:

```
print(requests.post('http://192.168.0.100/restapi/system/reboot/', auth=auth, ↵
      ↵ headers=headers, json={}).json())
```

⇒

None

Sample `uom` library invocation:

```
print(uom.dump(uom.system.reboot()))
```

⇒

null

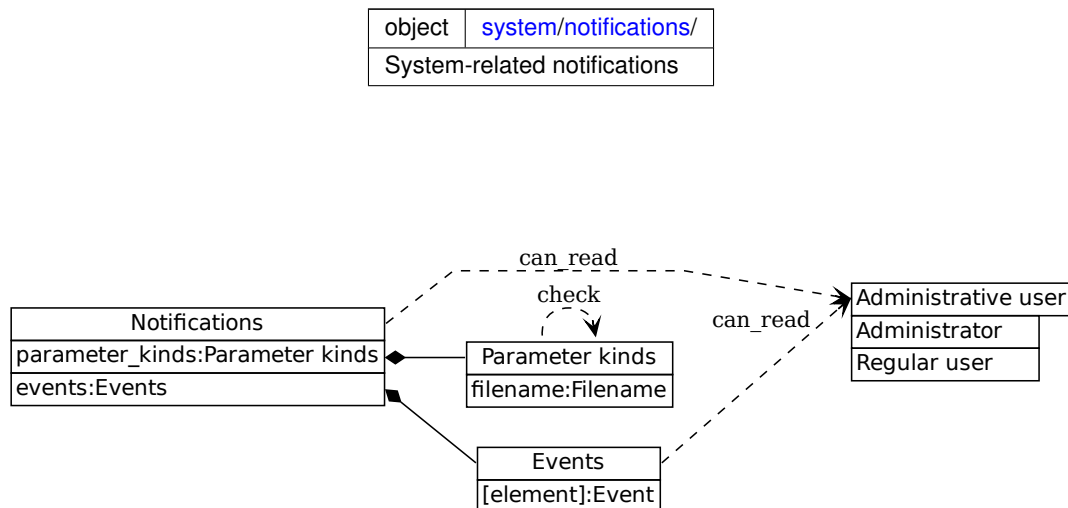
[Browse more samples](#)

16.31.1 Empty result

constant null	system/reboot/results: 1/
No additional information available	

This constant does not correspond to an actual resource.

16.32 Notifications



Retrieving the value is denied if not [administrative user](#)

This object does not support direct modification.

This object contains the following items:

parameter_kinds	Parameter kinds
events	Events

Sample `uom` library read command:

```
print(uom.dump(uom.system.notifications))
```

⇒

Sample `requests` read command:

```
print(requests.get('http://192.168.0.100/restapi/system/notifications/', auth=auth ↵
↵ , headers=headers).json())
```

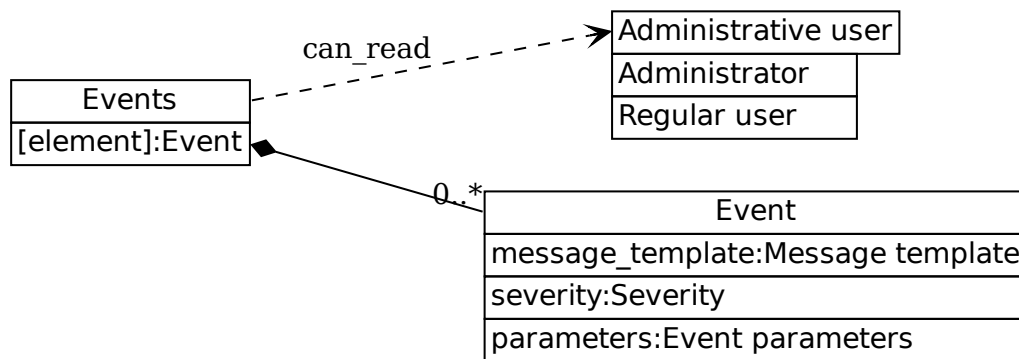
⇒

[Browse more samples](#)

See also [Notifications: Parameter kinds](#)

16.32.1 Events

map	system/notifications/events/
Event templates	



Retrieving the value is denied if not [administrative user](#)

This map is composite, i.e. is modified as a whole.

This map does not support direct modification.

This map contains [Event](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command:

```
uom get "system/notifications/events"
```

⇒

Sample curl read command:

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/system/notifications/events/"
```

⇒

[Browse more samples](#)

See also [Events: Event](#)

16.33 Notifications: Parameter kinds

object	system/notifications/parameter_kinds/
Kinds of event parameters	

This object does not correspond to an actual resource.

This object contains the following items:

filename	Filename

16.33.1 Filename

string	system/notifications/parameter_kinds/filename/
Path to the file involved	

16.34 Event parameters: Event parameter

object	system/notifications/events/S/parameters/N/
Properties of a parameter associated with the event	

This object is a part of a composite value which is modified as a whole.

This object contains the following items:

id	Identifier
has_fixed_value	Fixed value flag
fixed_value	Fixed value

Sample uom library read command (note that `_event` and `_event_parameter_index` are variables):

```
print(uom.dump(uom.system.notifications.events[_event].parameters[↔
↔ _event_parameter_index]))
```

⇒

```
{has_fixed_value=false,id="filename"}
```

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "system/notifications/events/${event}/parameters/${event_parameter_index ↔
↔ }"
```

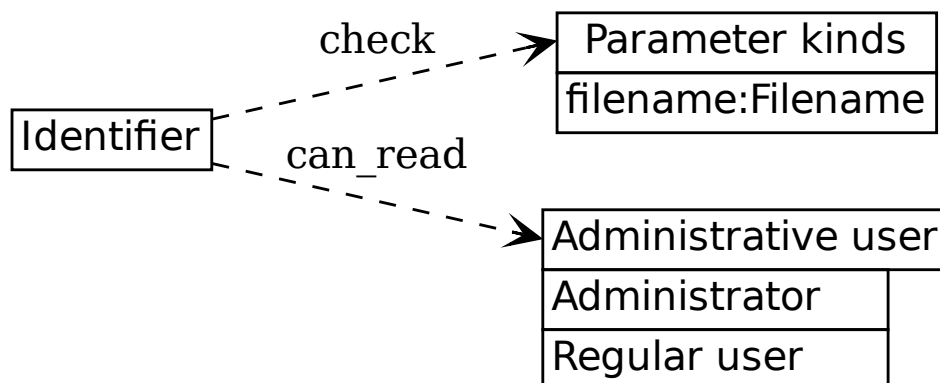
⇒

```
[]
```

[Browse more samples](#)

16.34.1 Identifier

string	system/notifications/events/S/parameters/N/id/
Parameter identifier	



The value is subject to the following constraints: [parameter kinds](#)[[the value](#)]

Retrieving the value is denied if not [administrative user](#)

This string is a part of a composite value which is modified as a whole.

This string does not support direct modification.

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "system/notifications/events/${event}/parameters/${event_parameter_index} ↵
↵ }/id"
```

⇒

```
"filename"
```

Sample `curl` read command (note that `:event` and `:event_parameter_index` are URL template arguments):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/system/notifications/events/:event/parameters/: ↵
↵ event_parameter_index/id/"
```

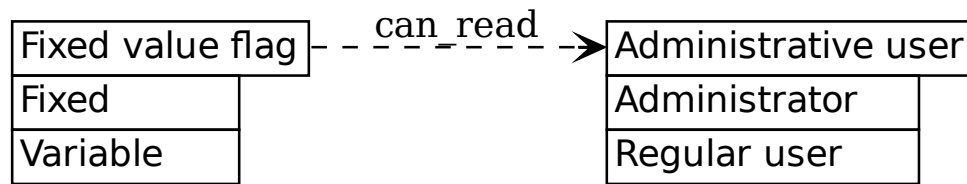
⇒

```
"filename"
```

[Browse more samples](#)

16.34.2 Fixed value flag

sum (boolean)	system/notifications/events/S/parameters/N/has_fixed_value/
Flag indicating that the parameter's value for this event is fixed	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant true	Fixed	The value is fixed
constant false	Variable	The value is variable

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

```
request.get({url:"system/notifications/events/"+_event+"/parameters/"+
  ↳ _event_parameter_index.toString()+"/has_fixed_value/"},function(error, ↳
  ↳ response,body) {console.log(body)});
```

⇒

false

Sample CLI read command (note that `event` and `event_parameter_index` are variables):

```
uom get "system/notifications/events/${event}/parameters/${event_parameter_index} ↳
  ↳ }/has_fixed_value"
```

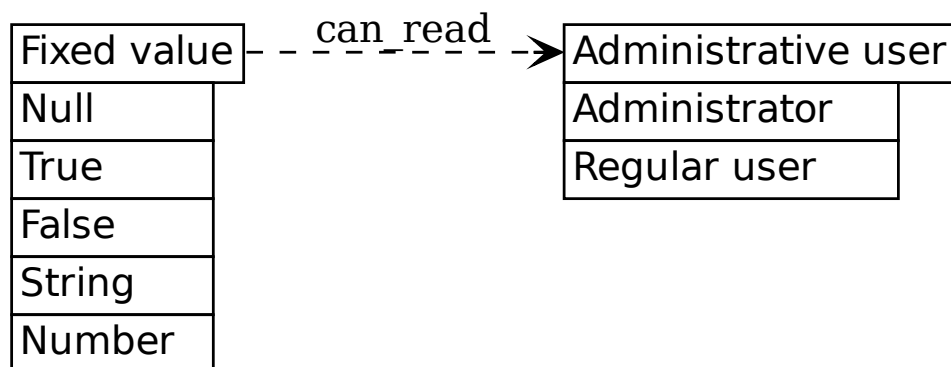
⇒

false

[Browse more samples](#)

16.34.3 Fixed value

sum (variant)	system/notifications/events/S/parameters/N/fixed_value/
Fixed parameter value for this particular event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant null	Null	Null
constant true	True	True
constant false	False	False
string	String	This string
number	Number	This number

Sample requests read command (note that `_event` and `_event_parameter_index` are variables):

```
print (requests.get ('http://192.168.0.100/restapi/system/notifications/events/' +
    ↪ _event + '/parameters/' + str(_event_parameter_index) + '/fixed_value/', auth=auth ↪
    ↪ , headers=headers).json())
```

⇒

```
{ }
```

Sample JS request read command (note that `_event` and `_event_parameter_index` are variables):

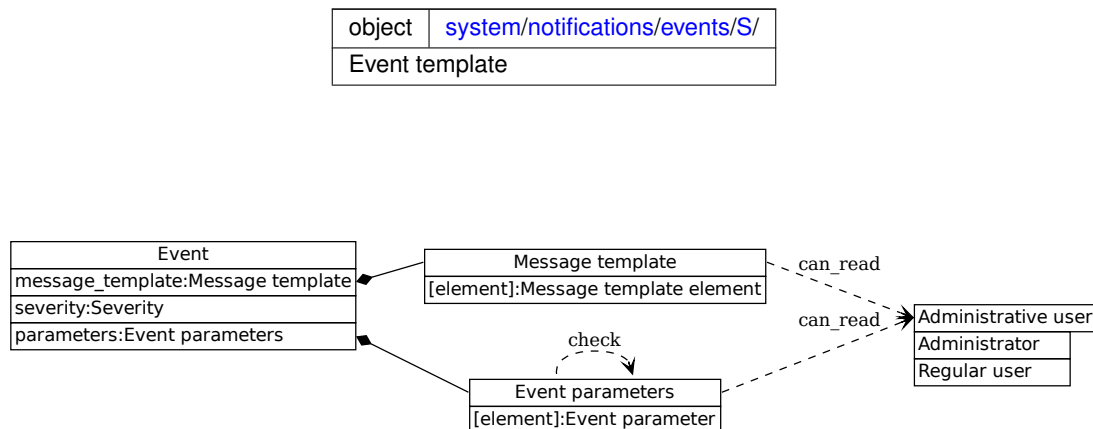
```
request.get ({url: "system/notifications/events/" + _event + "/parameters/" +
    ↪ _event_parameter_index.toString() + "/fixed_value/"}, function (error, response, ↪
    ↪ body) {console.log (body) });
```

⇒

```
[ ]
```

[Browse more samples](#)

16.35 Events: Event



This object is a part of a composite value which is modified as a whole.

This object contains the following items:

message_template	Message template
severity	Severity
parameters	Event parameters

Sample curl write command (note that :event is a URL template argument):

```
curl --digest -u admin:1234 -H "X-CSRF: x" -X PUT -H "Content-type: application/ ↵
↵ json" -H "Accept: application/json" --data-binary '{"severity\:4,\ " ↵
↵ message_template\":[\ "upload \",0,\ " deleted prematurely due to memory ↵
↵ pressure\","\ "parameters\":[{\ "has_fixed_value\:false,\ "id\":"filename ↵
↵ \"]}]}' "http://192.168.0.100/restapi/system/notifications/events/:event/"
```

Sample JS request read command (note that _event is a variable):

```
request.get({url:"system/notifications/events/"+_event+"/"},function(error, ↵
↵ response,body) {console.log(body)});
```

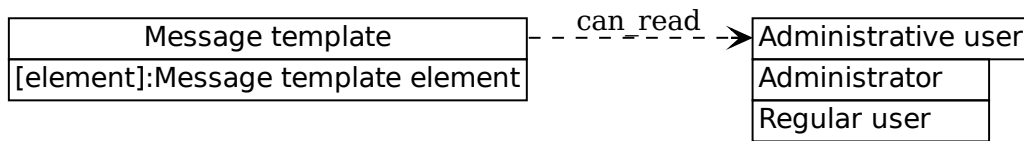
⇒

```
{"severity":6,"message_template":["maintenance mode entered (",0,")"],"parameters ↵
↵ ":[{"has_fixed_value":false,"id":"filename"}]}
```

[Browse more samples](#)

16.35.1 Message template

array	system/notifications/events/S/message_template/
Template for human-readable message generation	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Message template element](#) elements.

Creating elements in this collection is not supported.

Sample `curl` read command (note that `:event` is a URL template argument):

```
curl --digest -u admin:1234 -H "Accept: application/json" "http://192.168.0.100/ ↵
↵ restapi/system/notifications/events/:event/message_template/"
```

⇒

```
["system upgrade initiated ("0,")"]
```

Sample `requests` read command (note that `_event` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/system/notifications/events/'+ ↵
↵ _event+'/message_template/', auth=auth, headers=headers).json())
```

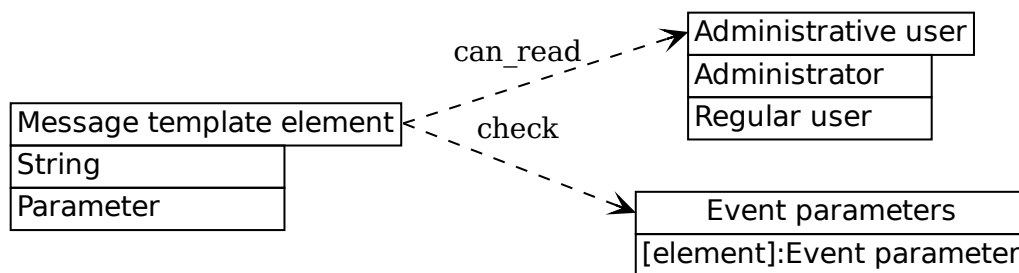
⇒

```
['upload ', 0, ' deleted prematurely due to memory pressure']
```

[Browse more samples](#)

sum (variant)	system/notifications/events/S/message_template/N/
Element of human-readable message template	

16.35.1.1 Message template element



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

string	String	Fixed string	
number	Parameter	Index of message parameter to insert	event parameters[the value]

Sample CLI read command (note that `event` and `message_template_element_index` are variables):

```
uom get "system/notifications/events/${event}/message_template/${
  ↪ message_template_element_index}"
```

⇒

```
" deleted due to inactivity"
```

Sample JS request read command (note that `_event` and `_message_template_element_index` are variables):

```
request.get({url:"system/notifications/events/"+_event+"/message_template/"+
  ↪ _message_template_element_index.toString()+"/"},function(error,response,
  ↪ body) {console.log(body)});
```

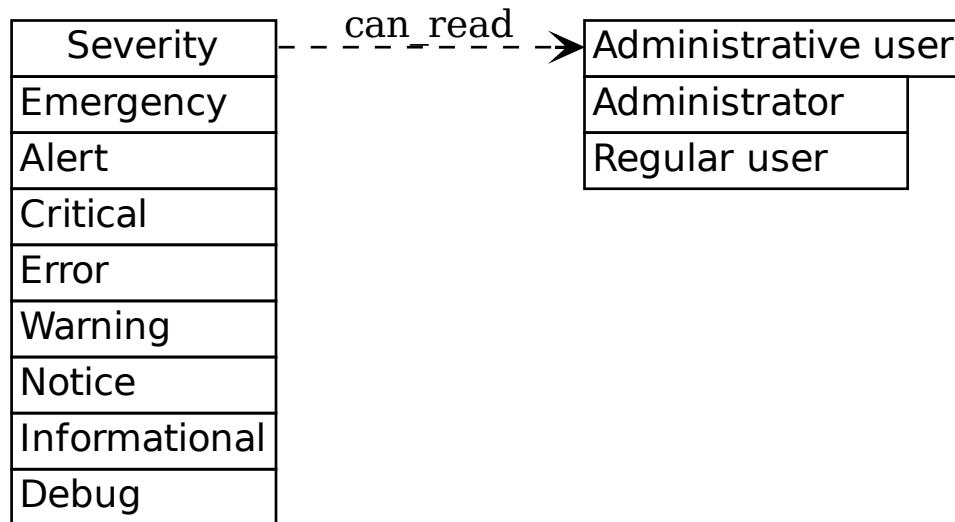
⇒

```
"reboot initiated"
```

[Browse more samples](#)

16.35.2 Severity

sum (enumerated number)	system/notifications/events/S/severity/
Severity rating assigned to the event	



Retrieving the value is denied if not [administrative user](#)

This sum is a part of a composite value which is modified as a whole.

This sum does not support direct modification.

This sum can assume the following values:

constant 1	Emergency	Treat the event as an emergency
constant 2	Alert	Treat the event as an alert
constant 3	Critical	Treat the event as critical
constant 4	Error	Treat the event as an error
constant 5	Warning	Treat the event as a warning
constant 6	Notice	Treat the event as a notice
constant 7	Informational	Treat the event as informational
constant 8	Debug	Treat the event as debugging-related

Sample CLI read command (note that `event` is a variable):

```
uom get "system/notifications/events/${event}/severity"
```

⇒

6

Sample requests read command (note that `_event` is a variable):

```
print(requests.get('http://192.168.0.100/restapi/system/notifications/events/' +   
↪ _event + '/severity/', auth=auth, headers=headers).json())
```

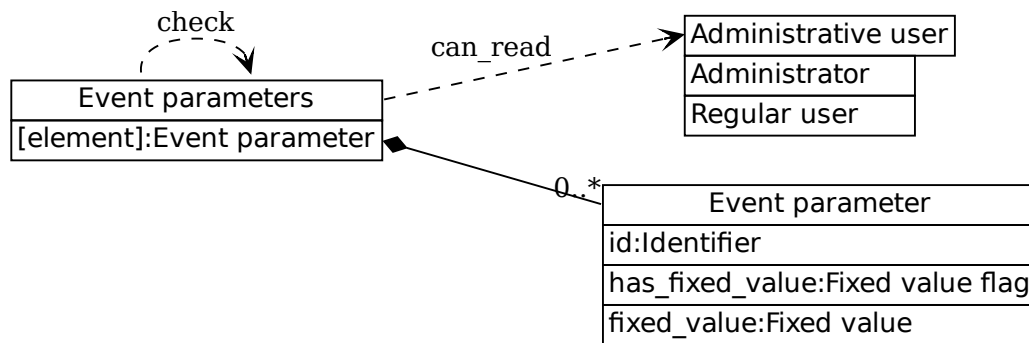
⇒

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16.35.3 Event parameters

array	system/notifications/events/S/parameters/
Additional data associated with the event	



Retrieving the value is denied if not [administrative user](#)

This array is a part of a composite value which is modified as a whole.

This array does not support direct modification.

This array contains [Event parameter](#) elements.

Creating elements in this collection is not supported.

Sample CLI read command (note that `event` is a variable):

```
uom get "system/notifications/events/${event}/parameters"
```

⇒

```
[{"has_fixed_value":false,"id":"filename"}]
```

Sample JS request read command (note that `_event` is a variable):

```
request.get({url:"system/notifications/events/"+_event+"/parameters/"},function(↵
    ↵ error,response,body) {console.log(body)});
```

⇒

```
[{"has_fixed_value":false,"id":"filename"}]
```

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See also [Event parameters: Event parameter](#)

