



IGEL Management Interface (IMI)

- [IMI API V3 Reference](#) (see page 3)
- [IMI How-Tos](#) (see page 233)
- [IMI Manual](#) (see page 238)
- [Powershell](#) (see page 271)

IMI API V3 Reference

- [What's New in IMI?](#) (see page 4)
- [Prerequisites](#) (see page 5)
- [Client Applications and Libraries](#) (see page 6)
- [Authentication](#) (see page 8)
- [Basic Data Types](#) (see page 11)
- [Resources](#) (see page 26)
- [Error Codes](#) (see page 229)



What's New in IMI?

Details added on registration and user login history:

- [GET /v3/thinclients?facets=loginhistory](#) (see page 111)
- [TCResourceV3](#) (see page 18)
- [GET /v3/thinclients?facets=details](#) (see page 51)

Prerequisites


- IGEL OS *version 10.03.100* or newer
- UMS *version 5.07.100* or newer
- Networking: In order to use *IGEL Management Interface* you need to be able to reach the API host via the network and connect to its API port, TCP 8443 by default.

The base URL is

```
https://[server]:8443/umsapi/
```

The API is versioned, so e.g. the resources for version 3 are available at

```
https://[server]:8443/umsapi/v3/
```

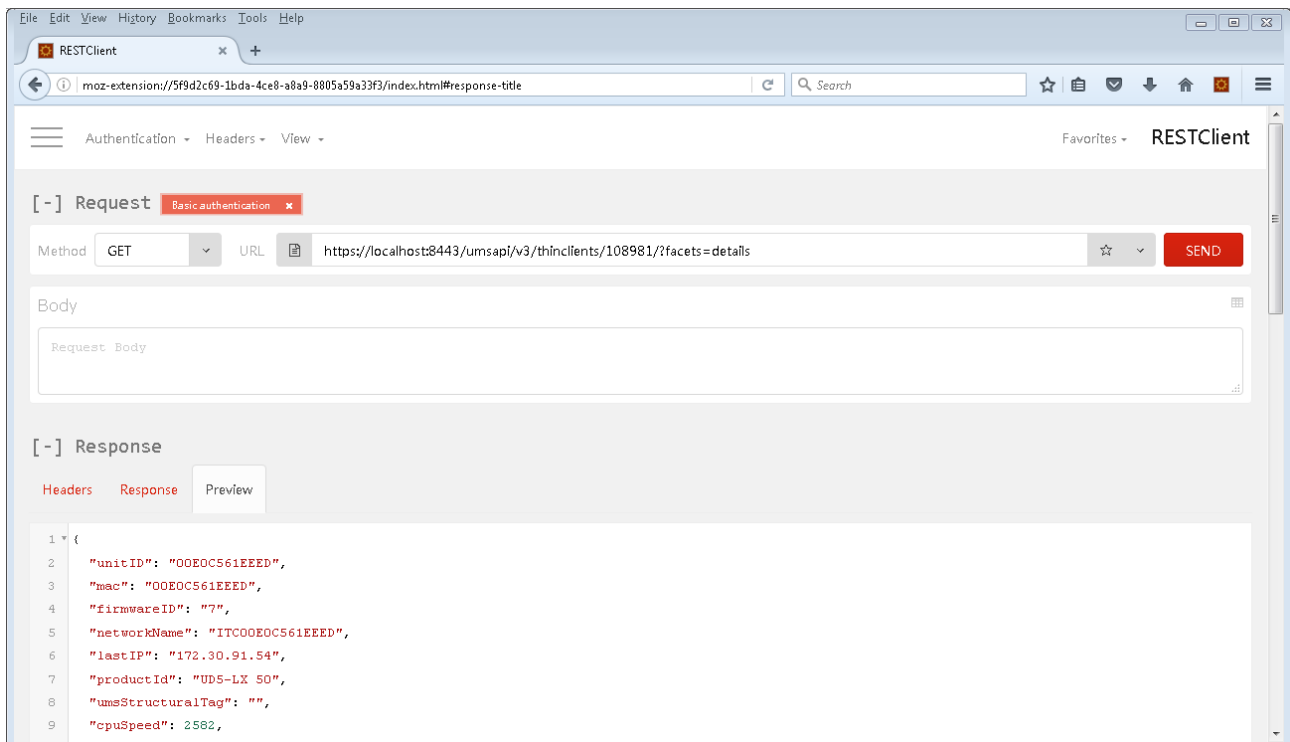
 If you are using the .NET framework for your client application, make sure to deploy version 4.5 or newer, as this includes the TLSv1.2 support required by IMI.

Client Applications and Libraries

Clients

The easiest way to try out the IGEL Management Interface is either

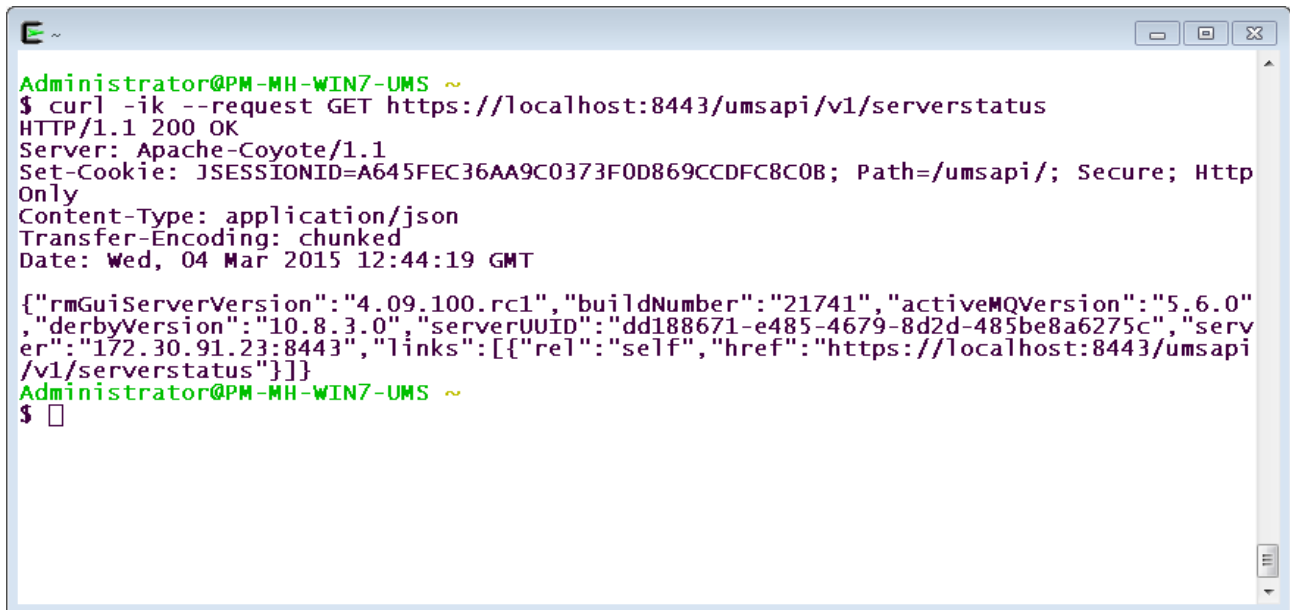
- with [RESTClient](#)¹, an add-on for Mozilla Firefox:



or

- with [cURL](#)², a commandline network client:

1. <http://restclient.net/>
2. <http://curl.haxx.se/>



```
Administrator@PM-MH-WIN7-UMS ~  
$ curl -ik --request GET https://localhost:8443/umsapi/v1/serverstatus  
HTTP/1.1 200 OK  
Server: Apache-Coyote/1.1  
Set-Cookie: JSESSIONID=A645FEC36AA9C0373F0D869CCDFC8C0B; Path=/umsapi/; Secure; Http  
Only  
Content-Type: application/json  
Transfer-Encoding: chunked  
Date: Wed, 04 Mar 2015 12:44:19 GMT  
  
{  
  "rmGuiServerVersion": "4.09.100.rc1",  
  "buildNumber": "21741",  
  "activeMQVersion": "5.6.0",  
  "derbyVersion": "10.8.3.0",  
  "serverUUID": "dd188671-e485-4679-8d2d-485be8a6275c",  
  "server": "172.30.91.23:8443",  
  "links": [{"rel": "self", "href": "https://localhost:8443/umsapi/v1/serverstatus"}]  
}  
Administrator@PM-MH-WIN7-UMS ~  
$
```

Both are licensed as Open Source software and are available free of charge.

This guide uses *cURL* for examples, as the commandline makes all parameters visible in plain text. This need not stop you from using *RESTClient* if you are more comfortable with it. You can easily translate the commandline parameters into the fields of the *RESTClient* GUI.

Programming

Most programming languages provide an HTTP and an SSL/TLS module, either in their standard library or as an extension, and a *JSON* library (for the API data format) as well.

Authentication

You must be authenticated in order to use *IGEL Management Interface*, otherwise the server will return the HTTP status 401 "Unauthorized". Only querying the server status is allowed without authentication.

The login mechanism uses HTTP Basic Authentication (RFC 2617).

-
- [POST /v3/login](#) (see page 9)
 - [POST /v3/logout](#) (see page 10)

POST /v3/login

Summary

Authenticates the client in regard to the *IMI* server.

Resource URL

```
/v3/login
```

Example Request


```
curl \  
--request POST \  
--user 'admin:W00t' \  
https://[server]:8443/umsapi/v3/login
```

Response Body

name	type	description
message	String	String containing the JSESSIONID

Example Response

```
200 OK  
Set-Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC; Path=/umsapi/; Secure; HttpOnly  
---  
{"message": "JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC"}
```

 You can maintain the session by sending the JSESSIONID in the Cookie header with every subsequent request. Some clients will do this automatically for you, e.g. the *RESTClient Firefox* add-on.

```
Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC
```

POST /v3/logout

Summary

Logs the client out from the *IMI* session.

Resource URL

```
/v3/logout
```

Example Request

```
curl \  
--request POST \  
--header 'Cookie: JSESSIONID=11048CDA77DE2B45BE1562C8EED67858' \  
https://[server]:8443/umsapi/v3/logout
```

Example Response

```
200 OK  
---  
{"message":"Logout successful"}
```

Basic Data Types

- [ApiObject](#) (see page 12)
- [AssetInfoResource](#) (see page 13)
- [AssetDetailResource](#) (see page 15)
- [AssetCategory](#) (see page 16)
- [AssetHistoryResource](#) (see page 17)
- [TCResourceV3](#) (see page 18)
- [Assignment](#) (see page 23)
- [DirectoryResource](#) (see page 25)

ApiObject

Summary

This object is the most basic representation of thin clients, profiles, and directories. It is used in [Assignments](#) (see [page 23](#)).

Properties

Name	Type	Mandatory	Description
id	String	yes	The object's ID in the UMS database
type	String	yes	One of: <ul style="list-style-type: none">• tc• tcdirectory• profile• profiledirectory• masterprofile• masterprofiledirectory

Example

```
{  
  "id": "68257",  
  "type": "profile"  
}
```

AssetInfoResource

Summary

This object describes an asset. It references the thin client, it is connected to, one or more categories the asset belongs to, and one or more details about the asset.

Properties

Name	Type	Description
tcId	Integer	Internal ID of the thin client the asset is connected to. The value -1 indicates that the asset is currently not connected to a thin client.
assetId	Integer	Internal asset ID
uniqueId	String	(not used)
connector	String	(not used)
assetName	String	Name
assetVendor	String	Vendor
deviceId	String	USB device ID
categoryList	Array of AssetCategory (see page 16)	Categories the asset belongs to
detailList	Array of AssetDetailResource (see page 15)	Asset details

Example

```
{
  "tcId": 47922,
  "assetId": 49070,
  "assetName": "M105 Optical Mouse",
  "assetVendor": "Logitech, Inc.",
```



```
"deviceId": "c077",  
"categoryList": {  
  "categoryList": [...]  
},  
"detailList": {  
  "detailList": [... ]  
}  
}
```

AssetDetailResource

Summary

This object describes one detail of the asset.

Properties

Name	Type	Description
attrId	Integer	Attribute ID
detailKey	String	Key for the detail
detailValue	String	Value (and unit)
detailType	String	Data type of the detail

Example

```
{  
  "attrId": 49067,  
  "detailKey": "maxPower",  
  "detailValue": "100mA",  
  "detailType": "string"  
}
```

AssetCategory

Summary

This object describes one category the asset belongs to.

Properties

Name	Type	Description
categoryId	Integer	Internal ID
categoryName	String	Category name

Example

```
{  
  "categoryId": 49068,  
  "categoryName": "Keyboard"  
}
```

AssetHistoryResource

Summary

This object describes an item (event) in the asset history.

Properties

Name	Type	Description
historyId	Integer	ID of the history item
unitId	String	UnitID of the thin client
assetId	Integer	Asset ID
eventTimeStamp	Timestamp	Unix timestamp of the event
event		one of: <ul style="list-style-type: none">• add• remove• add_on_boot• remove_on_boot

Example

```
{  
  "historyId": 26,  
  "unitId": "000BCA050027",  
  "assetId": 49070,  
  "eventTimeStamp": 1500372856000,  
  "event": {  
    "identifier": "remove"  
  }  
}
```



TCResourceV3

Summary

This object describes an endpoint device with its properties.

Properties

Name	Type	Description
id	String	Object ID in the UMS database
unitID	String	Unique unit ID
name	String	Network name
parentID	String	Name of parent directory
movedToBin	Boolean	True if in Recycling Bin
objectType		tc
links	Array	Links that make IMI discoverable for an HTTP spider
mac	String (12)	MAC address
firmwareID	String	Firmware ID
lastIP	String	Last known IP
batteryLevel	Integer	Level of the battery (if any)
lastUser	String	The last logged user from User Login History ³ of the devices in the UMS.

With facets=details

Name	Type	Description
networkName	String	

3. <https://kb.igel.com/en/universal-management-suite/current/view-device-information-in-the-igel-ums>

Name	Type	Description
site	String	Site
department	String	Department
costCenter	String	Cost center
comment	String	Comment
assetID	String	Asset ID of the thin client
inServiceDate	String	Placed in service on
serialNumber	String	Serial Number
productId	String	Product ID
umsStructuralTag	String	Structure Tag
cpuSpeed	Integer	CPU speed (MHz)
cpuType	String	CPU type
deviceType	String	Device type
deviceSerialNumber	String	Device serial number
osType	String	Operating system type
flashSize	Integer	Flash size (MB)
memorySize	Integer	Flash size (MB)
networkSpeed	Integer	Network speed
duplexMode	String	Duplex mode
graphicsChipset0	String	First Graphics chipset
graphicsMemorySize0	Integer	First Graphics memory (MB)
graphicsChipset1	String	Second Graphics chipset

Name	Type	Description
graphicsMemorySize1	Integer	Second Graphics memory (MB)
monitorVendor1	String	First Monitor vendor
monitorModel1	String	First Monitor model
monitorSerialnumber1	String	First Monitor serial number
monitorSize1	Number	First Monitor size
monitorNativeResolution1	String	First Monitor native resolution
monitor1YearOfManufacture	String	First Monitor year of manufacture
monitor1WeekOfManufacture	String	First Monitor week of manufacture
monitorVendor2	String	Second Monitor vendor
monitorModel2	String	Second Monitor model
monitorSerialnumber2	String	Second Monitor serial number
monitorSize2	Number	Second Monitor size
monitorNativeResolution2	String	Second Monitor native resolution
monitor2YearOfManufacture	String	Second Monitor year of manufacture
monitor2WeekOfManufacture	String	Second Monitor week of manufacture
biosVendor	String	BIOS vendor
biosVersion	String	BIOS version
biosDate	String	BIOS date
totalUsagetime	String	Total usage time
totalUptime	String	Total uptime
lastBoottime	String	Last boot time



Name	Type	Description
lastContact	String	Date and time of the last contact between UMS and endpoint device (Requires UMS 6.07 or higher)
configChanges		PENDING APPLIED (Requires UMS 6.07 or higher)
lastUser	String	The last logged user from User Login History from Devices in UMS. (Requires UMS 12.07.100 or higher)
registrationDate	String	Date and time of registration of the device to the UMS. (Requires UMS 12.07.100 or higher)
isThinClientRegistered	Boolean	The registration status of the OS12 device. true - a valid, not revoked client certificate is present. (Requires UMS 12.07.100 or higher)
isConnectedViaReverseProxy	Boolean	The reverse proxy connection status of the device. true - the device is connected through a reverse proxy (Requires UMS 12.09.110 or higher)

With facets=online

online	Boolean	Online status
--------	---------	---------------

With facets=shadow

shadowSecret	String	Certificate and password for Secure VNC
--------------	--------	---

With facets=networkadapters

Name	Type	Description
type	String	Type of the network adapter
mac	String	MAC address of the network adapter
name	String	Name of the corresponding network interface
state	String	State of the network adapter

With facets=loginhistory

Name	Type	Description
username	String	User that performs login / logoff
loginresult	Integer	<ul style="list-style-type: none"> • 0 - AUTH_OK • 1 - ERROR_LOGON_FAILED • 2 - ERROR_USER_NOT_FOUND • 3 - ERROR_INVALID_PASSWORD • 4 - ERROR_PASSWORD_EXPIRED • 5 - ERROR_NO_USER_LICENSE • 6 - ERROR_TC_UNKNOWN
logintime	String	Date and time of login
logofftime	String	Date and time of logoff
logontype	String	<ul style="list-style-type: none"> • swp - shared workplace • kerberos - kerberos • citrix - citrix • unknown - unknown logontype



Assignment

Summary

An Assignment links [ApiObjects](#) (see page 12), e.g. profiles to thin clients, or profiles to thin client directories.

Properties

Name	Type	Mandatory	Description
assignee	ApiObject (see page 12)	yes	The ApiObject (see page 12) that is assigned
receiver	ApiObject (see page 12)	yes	The ApiObject (see page 12) that is assigned to
assignmentPosition	Integer	no	Position for the order in which profiles are applied
links	Array	no	Links that make IMI discoverable for an HTTP spider

Example

```
[
{
  "assignee": {
    "id": "68257",
    "type": "profile"
  },
  "receiver": {
    "id": "48335",
    "type": "tc"
  },
  "assignmentPosition": 0,
```

```
"links": [  
  {  
    "rel": "assigned",  
    "href": "https://172.30.91.227:8443/umsapi/v2/profiles/68257"  
  },  
  {  
    "rel": "receiver",  
    "href": "https://172.30.91.227:8443/umsapi/v2/thinclients/48335"  
  },  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v2/profiles/68257/assignments/  
thinclients/48335"  
  }  
]  
}  
]
```



DirectoryResource

Properties

Name	Type	Mandatory	Description
id	String	yes	Object ID in the UMS database
name	String	yes	Directory name
parentID	String	no	ID of parent directory
movedToBin	Boolean	no	True if in Recycling Bin
objectType		no	One of: <ul style="list-style-type: none"> • tcdirectory • profiledirectory • masterprofiledirectory
links	Array	no	Links that make IMI discoverable for an HTTP spider

With facets=children

DirectoryChildren	Array		Array of objects (thin clients, directories or profiles) contained in this directory
-------------------	-------	--	--

Resources

- [Asset Information](#) (see page 27)
- [Device](#) (see page 48)
- [Profile](#) (see page 112)
- [Priority / Master Profile](#) (see page 131)
- [Profile Directory](#) (see page 150)
- [Priority / Master Profile Directory](#) (see page 171)
- [Firmware Information](#) (see page 189)
- [Template Keys](#) (see page 193)
- [Device Directory](#) (see page 204)

Asset Information

- [GET /v3/assetinfo](#) (see page 28)
- [GET /v3/assetinfo/assets/{assetId}](#) (see page 33)
- [GET /v3/assetinfo/thinclients/{tclid}](#) (see page 36)
- [GET /v3/assethistory](#) (see page 40)
- [GET /v3/assethistory/assets/{assetId}](#) (see page 43)
- [GET /v3/assethistory/thinclients/{unitId}](#) (see page 45)

GET /v3/assetinfo

Summary

Gets information on all assets known to the UMS instance.

Resource URL

```
/v3/assetinfo
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/assetinfo
```

Response Type

Returns an array of [AssetInfoResource](#) (see page 13).

Example Response

```
{
  "assetinfos": [
    {
      "tcId": 47922,
      "assetId": 49067,
      "assetName": "Elite Keyboard",
      "assetVendor": "Hewlett-Packard",
      "deviceId": "034a",
      "categoryList": {
        "categoryList": [
          {
            "categoryId": 49068,
            "categoryName": "Keyboard"
          }
        ]
      }
    }
  ]
}
```

```
},
{
  "categoryId": 49069,
  "categoryName": "Human Interface Device"
}
]
},
"detailList": {
  "detailList": [
    {
      "attrId": 49067,
      "detailKey": "maxPower",
      "detailValue": "100mA",
      "detailType": "string"
    },
    {
      "attrId": 49067,
      "detailKey": "speed",
      "detailValue": "1.5",
      "detailType": "string"
    },
    {
      "attrId": 49067,
      "detailKey": "custom_productName",
      "detailValue": "HP_Elite_USB_Keyboard",
      "detailType": "string"
    }
  ]
}
```

```
},  
{  
  "attrId": 49067,  
  "detailKey": "custom_vendorName",  
  "detailValue": "Chicony",  
  "detailType": "string"  
},  
{  
  "attrId": 49067,  
  "detailKey": "revision",  
  "detailValue": "0121",  
  "detailType": "string"  
}  
]  
}  
},  
{  
  "tcId": 47922,  
  "assetId": 49070,  
  "assetName": "M105 Optical Mouse",  
  "assetVendor": "Logitech, Inc.",  
  "deviceId": "c077",  
  "categoryList": {  
    "categoryList": [  
      {  
        "categoryId": 49071,
```

```
"categoryName": "Mouse"
}
]
},
"detailList": {
"detailList": [
{
"attrId": 49070,
"detailKey": "maxPower",
"detailValue": "100mA",
"detailType": "string"
},
{
"attrId": 49070,
"detailKey": "speed",
"detailValue": "1.5",
"detailType": "string"
},
{
"attrId": 49070,
"detailKey": "custom_productName",
"detailValue": "USB_Optical_Mouse",
"detailType": "string"
},
{
"attrId": 49070,
```

```
"detailKey": "custom_vendorName",  
"detailValue": "Logitech",  
"detailType": "string"  
},  
{  
"attrId": 49070,  
"detailKey": "revision",  
"detailValue": "7200",  
"detailType": "string"  
}  
]  
}  
}  
],  
"links": []  
}
```

GET /v3/assetinfo/assets/{assetId}

Summary

Gets information on a specific asset.

Resource URL

```
/v3/assetinfo/assets/{assetId}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/assetinfo/assets/49070
```

Request Path Variables

Name	Type	Mandatory	Description
assetId	String	yes	asset ID

Response Type

Returns an array of [AssetInfoResource](#) (see page 13).

Example Response

```
{
  "assetinfos": [
    {
      "tcId": 47922,
      "assetId": 49070,
      "assetName": "M105 Optical Mouse",
      "assetVendor": "Logitech, Inc.",
      "deviceId": "c077",
      "categoryList": {
```

```
"categoryList": [  
  {  
    "categoryId": 49071,  
    "categoryName": "Mouse"  
  }  
],  
"detailList": {  
  "detailList": [  
    {  
      "attrId": 49070,  
      "detailKey": "maxPower",  
      "detailValue": "100mA",  
      "detailType": "string"  
    },  
    {  
      "attrId": 49070,  
      "detailKey": "speed",  
      "detailValue": "1.5",  
      "detailType": "string"  
    },  
    {  
      "attrId": 49070,  
      "detailKey": "custom_productName",  
      "detailValue": "USB_Optical_Mouse",  
      "detailType": "string"  
    }  
  ]  
}
```

```
  },  
  {  
    "attrId": 49070,  
    "detailKey": "custom_vendorName",  
    "detailValue": "Logitech",  
    "detailType": "string"  
  },  
  {  
    "attrId": 49070,  
    "detailKey": "revision",  
    "detailValue": "7200",  
    "detailType": "string"  
  }  
]  
}  
},  
"links": []  
}
```

GET /v3/assetinfo/thinclients/{tcId}

Summary

Gets asset information on a specific thin client.

Resource URL

```
/v3/assetinfo/thinclients/{tcId}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/assetinfo/thinclients/47922
```

Request Path Variables

Name	Type	Mandatory	Description
tcId	String	yes	thin client ID

Response Type

Returns an array of [AssetInfoResource](#) (see page 13).

Example Response

```
{
  "assetinfos": [
    {
      "tcId": 47922,
      "assetId": 49072,
      "assetName": "Bluetooth Dongle (HCI mode)",
      "assetVendor": "Cambridge Silicon Radio, Ltd",
      "deviceId": "0001",
      "categoryList": {
```

```
"categoryList": [  
  {  
    "categoryId": 49073,  
    "categoryName": "Bluetooth"  
  }  
],  
"detailList": {  
  "detailList": [...]  
},  
{  
  "tcId": 47922,  
  "assetId": 49070,  
  "assetName": "M105 Optical Mouse",  
  "assetVendor": "Logitech, Inc.",  
  "deviceId": "c077",  
  "categoryList": {  
    "categoryList": [  
      {  
        "categoryId": 49071,  
        "categoryName": "Mouse"  
      }  
    ]  
  },  
  "detailList": {
```

```
"detailList": [...]  
}  
},  
{  
  "tcId": 47922,  
  "assetId": 49067,  
  "assetName": "Elite Keyboard",  
  "assetVendor": "Hewlett-Packard",  
  "deviceId": "034a",  
  "categoryList": {  
    "categoryList": [  
      {  
        "categoryId": 49068,  
        "categoryName": "Keyboard"  
      },  
      {  
        "categoryId": 49069,  
        "categoryName": "Human Interface Device"  
      }  
    ]  
  },  
  "detailList": {  
    "detailList": [...]  
  }  
}  
],
```



```
"links": []  
}
```

GET /v3/assethistory

Summary

Gets the complete asset history of the UMS instance.

Resource URL

```
/v3/assethistory
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/assethistory
```

Response Type

Returns an array of [AssetHistoryResource](#) (see page 17).

Example Response

```
{
  "assethistories": [
    {
      "historyId": 2,
      "unitId": "000BCA050027",
      "assetId": 49067,
      "eventTimeStamp": 1500012051000,
      "event": {
        "identifier": "add_on_boot"
      }
    },
    {
      "historyId": 3,
```

```
"unitId": "000BCA050027",
"assetId": 49070,
"eventTimeStamp": 1500012051000,
"event": {
  "identifier": "add_on_boot"
}
},
{
  "historyId": 4,
  "unitId": "000BCA050027",
  "assetId": 49072,
  "eventTimeStamp": 1500012123000,
  "event": {
    "identifier": "add"
  }
},
{
  "historyId": 5,
  "unitId": "000BCA050027",
  "assetId": 49072,
  "eventTimeStamp": 1500012735000,
  "event": {
    "identifier": "remove"
  }
},
{
```

```
"historyId": 6,  
"unitId": "000BCA050027",  
"assetId": 49083,  
"eventTimeStamp": 1500012774000,  
"event": {  
  "identifier": "add"  
}  
},  
{  
  "historyId": 7,  
  "unitId": "000BCA050027",  
  "assetId": 49072,  
  "eventTimeStamp": 1500274346000,  
  "event": {  
    "identifier": "add"  
  }  
}  
],  
"links": []  
}
```

GET /v3/assethistory/assets/{assetId}

Summary

Gets the asset history for a specific asset.

Resource URL

```
/v3/assethistory/assets/{assetId}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/assethistory/assets/49070
```

Request Path Variables

Name	Type	Mandatory	Description
assetId	String	yes	asset ID

Response Type

Returns an array of [AssetHistoryResource](#) (see page 17).

Example Response

```
{
  "assethistories": [
    {
      "historyId": 3,
      "unitId": "000BCA050027",
      "assetId": 49070,
      "eventTimeStamp": 1500012051000,
      "event": {
        "identifier": "add_on_boot"
```

```
}  
},  
{  
  "historyId": 26,  
  "unitId": "000BCA050027",  
  "assetId": 49070,  
  "eventTimeStamp": 1500372856000,  
  "event": {  
    "identifier": "remove"  
  }  
},  
{  
  "historyId": 29,  
  "unitId": "000BCA050027",  
  "assetId": 49070,  
  "eventTimeStamp": 1500380032000,  
  "event": {  
    "identifier": "add"  
  }  
}  
],  
"links": []  
}
```

GET /v3/assethistory/thinclients/{unitId}

Summary

Gets the asset history for a specific thin client.

Resource URL

```
/v3/assethistory/thinclients/{unitId}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/assethistory/thinclients/000BCA050027
```

Request Path Variables

Name	Type	Mandatory	Description
unitId	String	yes	unit ID of the endpoint device

Response Type

Returns an array of [AssetHistoryResource](#) (see page 17).

Example Response

```
{
  "assethistories": [
    {
      "historyId": 2,
      "unitId": "000BCA050027",
      "assetId": 49067,
      "eventTimeStamp": 1500012051000,
      "event": {
        "identifier": "add_on_boot"
      }
    }
  ]
}
```

```
}  
},  
{  
  "historyId": 3,  
  "unitId": "000BCA050027",  
  "assetId": 49070,  
  "eventTimeStamp": 1500012051000,  
  "event": {  
    "identifier": "add_on_boot"  
  }  
},  
{  
  "historyId": 4,  
  "unitId": "000BCA050027",  
  "assetId": 49072,  
  "eventTimeStamp": 1500012123000,  
  "event": {  
    "identifier": "add"  
  }  
},  
{  
  "historyId": 5,  
  "unitId": "000BCA050027",  
  "assetId": 49072,  
  "eventTimeStamp": 1500012735000,  
  "event": {
```

```
"identifier": "remove"  
}  
}  
],  
"links": []  
}
```

Device

- GET /v3/thinclients (see page 49)
- GET /v3/thinclients?facets=details (see page 51)
- GET /v3/thinclients?facets=online (see page 56)
- GET /v3/thinclients?facets=shadow (see page 58)
- GET /v3/thinclients?facets=networkadapters (see page 62)
- GET /v3/thinclients?facets=deviceattributes (see page 63)
- GET /v3/thinclients/{tclid} (see page 65)
- GET /v3/thinclients/{tclid}?facets=details (see page 67)
- GET /v3/thinclients/{tclid}?facets=online (see page 70)
- GET /v3/thinclients/{tclid}?facets=shadow (see page 72)
- GET /v3/thinclients/{tclid}?facets=networkadapters (see page 75)
- GET /v3/thinclients/{tclid}?facets=deviceattributes (see page 76)
- GET /v3/thinclients/{tclid}/assignments/profiles (see page 78)
- GET /v3/thinclientview/{viewId} (see page 81)
- GET /v3/thinclientview/{viewId}?facets=details (see page 83)
- GET /v3/thinclientview/{viewId}?facets=online (see page 88)
- GET /v3/thinclientview/{viewId}?facets=shadow (see page 90)
- GET /v3/thinclientview/{viewId}?facets=networkadapters (see page 94)
- PUT /v3/thinclients/{tclid}/assignments/profiles (see page 95)
- PUT /v3/thinclients (see page 97)
- PUT /v3/thinclients/{tclid} (see page 100)
- DELETE /v3/thinclients/{tclid} (see page 103)
- DELETE /v3/thinclients/{tclid}/deletetcoffline (see page 105)
- POST /v3/thinclients/?command={reboot|shutdown|wakeUp} (see page 106)
- POST /v3/thinclients?command=settings2tc (see page 108)
- POST /v3/thinclients/?command=tcreset2facdefs (see page 110)
- GET /v3/thinclients?facets=loginhistory (see page 111)

GET /v3/thinclients

Summary

Gets information on all thin clients registered with the UMS instance.

i This method will also list thin clients that are located in the **Recycle Bin** ("movedToBin": "true"), but you will not be able to call methods on those clients.

Resource URL

```
/v3/thinclients
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18).

Example Response


```
[
{
"unitID": "00E0C514325B",
"mac": "00E0C514325B",
"firmwareID": "6",
"lastIP": "172.30.92.26",
"batteryLevel": 0,
"id": "95",
"name": "ITC00E0C514325B",
"parentID": "-1",
```

```
"movedToBin": false,  
"objectType": "tc",  
"links": []  
},  
{  
"unitID": "000BCA050027",  
"mac": "000BCA050027",  
"firmwareID": "6",  
"lastIP": "172.30.91.87",  
"batteryLevel": 0,  
"id": "47922",  
"name": "ITC000BCA050027",  
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
}  
]
```

GET /v3/thinclients?facets=details

Summary

Gets detailed information on all endpoint devices.

 This method will also list endpoint devices that are located in the **Recycle Bin** ("movedToBin": "true"), but you will not be able to call methods on those devices.

Resource URL

```
/v3/thinclients?facets=details
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients?facets=details
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18) with full details.

Example Response

```
[
{
  "unitID": "00E0C514325B",
  "mac": "00E0C514325B",
  "firmwareID": "6",
  "networkName": "ITC00E0C514325B",
  "lastIP": "172.30.92.26",
  "productId": "UD3-LX 50cps",
  "umsStructuralTag": "",
  "cpuSpeed": 1200,
```

```
"cpuType": "AMD GX-412HC SOC with Radeon(TM) R3E Graphics",  
"deviceType": "IGEL M340C",  
"deviceSerialNumber": "14D3E3C02B16160323M",  
"osType": "IGEL Linux 10 (Kernel Version 4.10.17)",  
"flashSize": 1875,  
"memorySize": 1705,  
"networkSpeed": 1000,  
"graphicsChipset0": "ATI MULLINS",  
"graphicsChipset1": "",  
"monitorVendor1": "Samsung Electric Company",  
"monitorModel1": "SyncMaster",  
"monitorSerialnumber1": "HMJBC00558",  
"monitorSize1": 24,  
"monitorNativeResolution1": "1920 x 1200",  
"monitor1YearOfManufacture": "2011",  
"monitor1WeekOfManufacture": "51",  
"monitorVendor2": "",  
"monitorModel2": "",  
"monitorSerialnumber2": "",  
"monitorSize2": 0,  
"monitorNativeResolution2": "",  
"monitor2YearOfManufacture": "",  
"monitor2WeekOfManufacture": "",  
"biosVendor": "Insyde Corp.",  
"biosVersion": "M340C V:3.3.13-12162015",  
"biosDate": "12/16/2015",
```

```
"totalUsagetime": "20",  
"totalUptime": "1500380741",  
"lastBoottime": "2017-07-18 14:25",  
"batteryLevel": -1,  
"id": "95",  
"registrationDate": "11.12.2024 10:32:18",  
"isThinClientRegistered": "true",  
"isConnectedViaReverseProxy": "true",  
"name": "ITC00E0C514325B",  
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
},  
{  
"unitID": "000BCA050027",  
"mac": "000BCA050027",  
"firmwareID": "6",  
"networkName": "ITC000BCA050027",  
"lastIP": "172.30.91.87",  
"productId": "UD2-LX 40acps",  
"umsStructuralTag": "",  
"cpuSpeed": 1466,  
"cpuType": "Intel(R) Atom(TM) CPU E3815 @ 1.46GHz",  
"deviceType": "IGEL D220",  
"deviceSerialNumber": "1502GVAAA2965",
```

```
"osType": "IGEL Linux 10 (Kernel Version 4.10.17)",  
"flashSize": 1875,  
"memorySize": 1894,  
"networkSpeed": 1000,  
"graphicsChipset0": "INTEL HD Graphics (Baytrail)",  
"graphicsChipset1": "",  
"monitorVendor1": "Samsung Electric Company",  
"monitorModel1": "SyncMaster",  
"monitorSerialnumber1": "HMJBC00558",  
"monitorSize1": 24,  
"monitorNativeResolution1": "1920 x 1200",  
"monitor1YearOfManufacture": "2011",  
"monitor1WeekOfManufacture": "51",  
"monitorVendor2": "",  
"monitorModel2": "",  
"monitorSerialnumber2": "",  
"monitorSize2": 0,  
"monitorNativeResolution2": "",  
"monitor2YearOfManufacture": "",  
"monitor2WeekOfManufacture": "",  
"biosVendor": "INSYDE Corp.",  
"biosVersion": "D220-002",  
"biosDate": "02/01/2016",  
"totalUsagetime": "1739549000",  
"totalUptime": "8856000",  
"lastBoottime": "2017-07-18 11:55",
```

```
"batteryLevel": -1,  
"id": "47922",  
"registrationDate": "11.12.2024 10:32:18",  
"isThinClientRegistered": "true",  
"isConnectedViaReverseProxy": "true",  
"name": "ITC000BCA050027",  
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
}  
]
```

GET /v3/thinclients?facets=online

Summary

Gets the online status for all thin clients.

i This method will also list thin clients that are located in the **Recycle Bin** ("movedToBin": "true"), but you will not be able to call methods on those clients.

i When you send this request, UMS cannot answer it from data in the database alone, but makes a network connection to each thin client, which may take some time.

Resource URL

```
/v3/thinclients?facets=online
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients?facets=online
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18) with their online status.

Example Response


```
[
{
"unitID": "00E0C514325B",
"mac": "00E0C514325B",
"firmwareID": "6",
"lastIP": "172.30.92.26",
"online": false,
```

```
"batteryLevel": 0,  
"id": "95",  
"name": "ITC00E0C514325B",  
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
},  
{  
"unitID": "000BCA050027",  
"mac": "000BCA050027",  
"firmwareID": "6",  
"lastIP": "172.30.91.87",  
"online": true,  
"batteryLevel": 0,  
"id": "47922",  
"name": "ITC000BCA050027",  
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
}  
]
```

GET /v3/thinclients?facets=shadow

Summary

Gets the certificate and password for Secure VNC for all thin clients.

 This method will also list thin clients that are located in the **Recycle Bin** (`"movedToBin": "true"`), but you will not be able to call methods on those clients.

Learn more about shadowing from the How-To document "[Using Secure VNC via IGEL Management Interface \(IMI\)](#)" (see page 234).

Resource URL

```
/v3/thinclients?facets=shadow
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients?facets=shadow
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18) with the shadowSecret object, consisting of the certificate and password fields.

Example Response

```
[
{
  "unitID": "00E0C514325B",
  "mac": "00E0C514325B",
  "firmwareID": "6",
  "lastIP": "000.00.00.00",
  "batteryLevel": 0,
  "shadowSecret": {
    "certificate": "-----BEGIN CERTIFICATE-----"
```



MIIE1jCCAr6gAwIBAgIEBC0a4zANBgkqhkiG9w0BAQ0FADAtMQswCQYDVQQGEwJERTEPMA0GA1UEBxMGQnJlbWVuMQ0wCwYDVQQKEwRJR0VMMB4XDTE0MDEwMTAwMDAwMVoXDTM3MDEwMTAwMDAwMVowLTELMAkGA1UEBhMCREUxDzANBgNVBACTBkYjZW1LbjENMAsGA1UEChMESUdFTDCCAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgocGgIBAJw6ki ftBFhAnFXGfzMnuhiSYm9QrGFGvryvNpPzEK8f8Svcp62R+jv3bhtLFJcWQGf4xn4xRoQUzj48m5Y1Sg12oY/YBNt5xLxKLTeq0HGurpYVan40zoT0FRG+ygpXWU0MvPFFYscokWo/7Id5EycfBefVvwx6Z09z0b112J8qgmo5/aenWJph70dJbKWsh2ojXzjU6tkrMVv80V+68TN0c5I8V2wIzlgEqNnpKCZLkSbRjzhd6FMoY0RdqqCMLuMAluDoKuj5Z29tGNX1YYnIt7w+DmB18g8hYwblztLhMqX6pNBfEgi3VLqjUOSiIFmfzGT9ZpuCNMfvpXzCWKhwc8WPWzLPNFF9cMI+rYyPWG0mhSuhIJsHvRbddfm6nte8Wt7cc2Q0Ha89b1Mwmy4/LKT810Ry0Ge8t66eDrxkGv2dlmimUJ2Tn6E92b9WyStLC+FDqEecPC46P8UCEf4c9Ed+MiwRQzwIFBlqAMqljtG1StmwEoYJ8WLazL5wG9QpS0zy/4JKTqjm5pL fUYA2xI fnP1h/9ESD7AYU47PNZF/KRh20VCMBHeV79V7en/w0NJPeacK9ug2XNFWHSARS2Bgb3KAXdtoicBIcjZAtnpm1W5N0aZ70L4zngV0V45X0gWxin+7oYXoLaMfi7pm0EnZnmBNWmPSBdjRIQChAgMA/zkwDQYJKoZIhvcNAQENBQADggIBA JmNVT+x4iprrlBdqChLCK1dhiozzbYBkRQGE8HXryIzCPY+t0z0N0Zr1xAiL8Iczy1DVZRHsAw5CNSWnSnfKHdd/tDV9aCpITfWUqOb22hrG9wK9P5XjZhBusc9BBX1oNL/CiD+Hschhs0qpd14MMWpH6aSdoK+qxTW8+8300CiLHHzQuB8UkP/XSjr/70Cm0uqd71QrfdbrqTzdRmzhKg6SnwUR9j3nToym0iwaZM8ucR/gbN39mzORiqiGydvyyJ/LJgpV5viERLCK1iUua2SJ4+5NRByS//JfDt90U8YoGXAohMjwz55Arc8CJvd2M0W0v00eyIMj7EJzhTDcxS5mmLr16BrsFC37qgFiSsjffoXnsZMkMC/edUyGSqpJ4N5/huyYkoP/C70SQTXgsDE8gN4kESIWkzHLJCnP/A2A4jaHlmG8onZtR92xLSEksggyAAp19Rx9510Rqo27+qooJTQ0D/Ovjyf9i+dn9x3cczpmDsfn9ucu5Bd9TCNlP84pIw7rEyhA+otly47dgC6uL7digv0lfUtwen0gnNWY0N9Y201SLiF5lyFpEmxq9m/bo6Vci2EWgf4D6Ib+R6ZpRUFvBZUHp6rfXl9Qi1bD5qM4ItJavl7XGk7CyGyF0/SCv3Sx0KP1d54poRY/iXeJ5LES0LpAurXS8/yX4i

```
-----END CERTIFICATE-----",
  "password": "xxx"
},
"id": "95",
"name": "ITC00E0C514325B",
"parentID": "-1",
"movedToBin": false,
"objectType": "tc",
"links": []
},
{
  "unitID": "000BCA050027",
  "mac": "000BCA050027",
  "firmwareID": "6",
  "lastIP": "000.00.00.00",
  "batteryLevel": 0,
  "shadowSecret": {
    "certificate": "-----BEGIN CERTIFICATE-----
MIIE2jCCAsKgAwIBAgIIVK2HBBbVnSwwDQYJKoZIhvcNAQENBQAwLTElMAkGA1U
[...]
v7vvw==
-----END CERTIFICATE-----",
    "password": "xxx"
  },
  "id": "47922",
  "name": "ITC000BCA050027",
```



```
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
}  
]
```

GET /v3/thinclients?facets=networkadapters

Summary

Gets detailed information on all available network adapters for all endpoint devices. This information is provided for devices as of IGEL OS 11.07.100.

i This method will also list endpoint devices that are located in the **Recycle Bin** ("movedToBin": "true"), but you will not be able to call methods on those endpoint devices.

Resource URL

```
/v3/thinclients?facets=networkadapters
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients?facets=networkadapters
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18) with full details.

Example Response

```
[{"unitID":"85641000E583142622","mac":"00E0C520986A","firmwareID":"325","lastIP":"000.00.00.000","networkAdapters":[],"deviceAttributes": [{"id":"36115","name":"TD-RD01","parentID":"36150","movedToBin":false,"objectType":"tc","links":[]}, {"unitID":"00E0C520986A","mac":"00E0C520986A","firmwareID":"1129","lastIP":"000.00.00.000","networkAdapters": [{"type":"lan","mac":"00E0C520986A","name":"enp1s0","state":"up"}],"deviceAttributes": [{"id":"97856","name":"TD-RD03","parentID":"36150","movedToBin":false,"objectType":"tc","links":[]}]}]
```

GET /v3/thinclients?facets=deviceattributes

Summary

Gets the available device attributes. This request is available as of IGEL OS 11.07.100.

i This method will also list endpoint devices that are located in the **Recycle Bin** ("movedToBin": "true"), but you will not be able to call methods on those endpoint devices.

Resource URL

```
/v3/thinclients?facets=deviceattributes
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients?facets=deviceattributes
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18) with full details.

Example Response

```
[
  {
    "unitID": "005056930CAD",
    "mac": "005056930CAD",
    "firmwareID": "19",
    "lastIP": "192.168.30.106",
    "deviceAttributes": [
      {
        "name": "Division",
        "identifier": "division",
        "value": "First division",
        "type": "range",
        "allowedValues": [
          "First division",
          "Second division",
          "Third division"
        ]
      }
    ]
  }
]
```

```

    },
    {
      "name": "Country",
      "identifier": "country",
      "value": "DE",
      "type": "range",
      "allowedValues": [
        "DE",
        "GB",
        "US"
      ]
    },
    {
      "name": "Location",
      "identifier": "location",
      "value": "Augsburg",
      "type": "range",
      "allowedValues": [
        "Augsburg",
        "Karlsruhe",
        "San Francisco"
      ]
    }
  ],
  "id": "455",
  "name": "ITC005056930CAD",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tc",
  "links": []
},
{
  "unitID": "85641000D308482019",
  "mac": "001558CDD1C0",
  "firmwareID": "2",
  "lastIP": "192.168.2.127",
  "deviceAttributes": [],
  "id": "3610",
  "name": "ITC001558CDD1C0",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tc",
  "links": []
}
]

```

GET /v3/thinclients/{tcId}

Summary

Gets information on the specified thin client.

Resource URL

```
/v3/thinclients/{tcId}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients/95
```

Request Path Variables

Name	Type	Mandatory	Description
tcId	String	yes	thin client ID

Response Type

Returns a [TCResourceV3](#) (see page 18).

Example Response

```
{
  "unitID": "00E0C514325B",
  "mac": "00E0C514325B",
  "firmwareID": "6",
  "lastIP": "172.30.92.26",
  "batteryLevel": 0,
  "id": "95",
  "name": "ITC00E0C514325B",
  "lastUser": "localadmin1",
```



```
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
}
```

GET /v3/thinclients/{tcId}?facets=details

Summary

Gets detailed information on the specified endpoint device.

Resource URL

```
/v3/thinclients/{tcId}?facets=details
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients/95?facets=details
```

Request Path Variables

Name	Type	Mandatory	Description
tcId	String	yes	thin client ID

Response Type

Returns a [TCResourceV3](#) (see page 18) with full details.

Example Response

```
{
  "unitID": "00E0C514325B",
  "mac": "00E0C514325B",
  "firmwareID": "6",
  "networkName": "ITC00E0C514325B",
  "lastIP": "172.30.92.26",
  "productId": "UD3-LX 50cps",
  "umsStructuralTag": "",
  "cpuSpeed": 1200,
```

```
"cpuType": "AMD GX-412HC SOC with Radeon(TM) R3E Graphics",  
"deviceType": "IGEL M340C",  
"deviceSerialNumber": "14D3E3C02B16160323M",  
"osType": "IGEL Linux 10 (Kernel Version 4.10.17)",  
"flashSize": 1875,  
"memorySize": 1705,  
"networkSpeed": 1000,  
"graphicsChipset0": "ATI MULLINS",  
"graphicsChipset1": "",  
"monitorVendor1": "Samsung Electric Company",  
"monitorModel1": "SyncMaster",  
"monitorSerialnumber1": "HMJBC00558",  
"monitorSize1": 24,  
"monitorNativeResolution1": "1920 x 1200",  
"monitor1YearOfManufacture": "2011",  
"monitor1WeekOfManufacture": "51",  
"monitorVendor2": "",  
"monitorModel2": "",  
"monitorSerialnumber2": "",  
"monitorSize2": 0,  
"monitorNativeResolution2": "",  
"monitor2YearOfManufacture": "",  
"monitor2WeekOfManufacture": "",  
"biosVendor": "Insyde Corp.",  
"biosVersion": "M340C V:3.3.13-12162015",  
"biosDate": "12/16/2015",
```

```
"totalUsagetime": "20",  
"totalUptime": "1500380741",  
"lastBoottime": "2017-07-18 14:25",  
"batteryLevel": -1,  
"id": "95",  
"lastUser": "localadmin1",  
"registrationDate": "11.12.2024 10:32:18",  
"isThinClientRegistered": "true",  
"isConnectedViaReverseProxy": "true",  
"name": "ITC00E0C514325B",  
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
}
```

GET /v3/thinclients/{tcId}?facets=online

Summary

Gets information on the specified thin client with its online status.

i When you send this request, UMS cannot answer it from data in the database alone, but makes a network connection to the thin client, which may take some time.

Resource URL

```
/v3/thinclients/{tcId}?facets=online
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients/95?facets=online
```

Request Path Variables

Name	Type	Mandatory	Description
tcId	String	yes	thin client ID

Response Type

Returns a [TCResourceV3](#) (see page 18) with its online status.

Example Response

```
{
  "unitID": "00E0C514325B",
  "mac": "00E0C514325B",
  "firmwareID": "6",
  "lastIP": "172.30.92.26",
  "online": false,
```

```
"batteryLevel": 0,  
"id": "95",  
"name": "ITC00E0C514325B",  
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
}
```

GET /v3/thinclients/{tcId}?facets=shadow

Summary

Gets shadowing information on the specified thin client.

Learn more about shadowing from the How-To document "[Using Secure VNC via IGEL Management Interface \(IMI\)](#)" (see page 234).

Resource URL

```
/v3/thinclients/{tcId}?facets=shadow
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients/95?facets=shadow
```

Request Path Variables

Name	Type	Mandatory	Description
tcId	String	yes	thin client ID

Response Type

Returns a [TCResourceV3](#) (see page 18) with the shadowSecret object, consisting of the certificate and password fields.

Example Response

```
{
  "unitID": "00E0C514325B",
  "mac": "00E0C514325B",
  "firmwareID": "6",
  "lastIP": "172.30.92.26",
  "batteryLevel": 0,
  "shadowSecret": {
    "certificate": "-----BEGIN CERTIFICATE-----"
```



MIIE1jCCAr6gAwIBAgIEBC0a4zANBgkqhkiG9w0BAQ0FADAtMQswCQYDVQQGEwJERTEPMA0GA1UEBxMGQnJlbWVuMQ0wCwYDVQQKEwRJR0VMMB4XDTE0MDEwMTAwMDAwMVoXDTM3MDEwMTAwMDAwMVowLTELMAkGA1UEBhMCREUxDzANBgNVBACTBkJyZW1LbjENMAsGA1UEChMESUdFTDCCAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgocGgIBAJw6ki ftBFhAnFXGfzMnuhiSYm9QrGFGvryvNpPzEK8f8Svcp62R+jv3bhtLFJcWQGf4xn4xRoQUzj48m5Y1Sg12oY/YBNt5xLxKLTeq0HGurpYVan40zoT0FRG+ygpXWU0MvPFFYscokWo/7Id5EycfBefVvwx6Z09z0b112J8qgmo5/aenWJph70dJbKWsh2ojXzjU6tkrMVv80V+68TN0c5I8V2wIzIgeqNnpKCZLkSbRjzhd6FMoY0RdqqCMLuMAluDoKuj5Z29tGNX1YYnIt7w+DmB18g8hYwblztLhMqX6pNBfEgi3VLqjUOSiIFmfzGT9ZpuCNMfvpXzCWKhwc8WPWzLPNFF9cMI+rYyPWG0mhSuhIJsHvRbddfm6nte8Wt7cc2Q0Ha89b1Mwmy4/LKT810Ry0Ge8t66eDrxkGv2dlmimUJ2Tn6E92b9WyStLC+FDqEecPC46P8UCEf4c9Ed+MiwRQzwIFBlqAMqljtG1StmwEoYJ8WLazL5wG9QpS0zy/4JKTqjm5pL fUYA2xI fnP1h/9ESD7AYU47PNZF/KRh20VCMBHev79V7en/w0NJPeacK9ug2XNFWHSARS2Bgb3KAXdtoicBIcjZAtnpm1W5N0aZ70L4zngV0V45X0gWxin+7oYXoLaMfi7pm0EnZnmBNWmPSBdjRIQChAgMA/zkwDQYJKoZIhvcNAQENBQADggIBA JmNVT+x4iprrlBdqChLCK1dhiozzbYBkRQGE8HXryIzCPY+t0z0N0Zr1xAiL8Iczy1DVZRHsAw5CNSWnSnfKHdd/tDV9aCpITfWUqOb22hrG9wK9P5XjZhBusc9BBX1oNL/CiD+Hschhs0qpd14MMWpH6aSdoK+qxTW8+8300CiLHHzQuB8UkP/XSjr/70Cm0uqd71QrfdbrqTzdRmzhKg6SnwUR9j3nToym0iwaZM8ucR/gbN39mz0RiqiGydvyyJ/LJgpV5viERLCK1iUua2SJ4+5NRByS//JfDt90U8YoGXAohMjwz55Arc8CJvd2M0W0v00eyIMj7EJzhTDcxS5mmLr16BrsFC37qgFiSsjffoXnsZMkMC/edUyGSqpJ4N5/huyYkoP/C70SQTXgsDE8gN4kESIWkzHLJCnP/A2A4jaHlmG8onZtR92xLSEksggyAAp19Rx9510Rqo27+qooJTQ0D/Ovjyf9i+dn9x3cczpmDsfn9ucu5Bd9TCNlP84pIw7rEyhA+otly47dgC6uL7digv0lfUtwen0gnNWY0N9Y201SLiF5lyFpEmxq9m/bo6Vc i2EWgf4D6Ib+R6ZpRUFvBZUHp6rfXl9Qi1bD5qM4ItJavl7XGk7CyGyF0/SCv3Sx0KP1d54poRY/iXeJ5LES0LpAurXS8/yX4i

```
-----END CERTIFICATE-----
```

```
",
```

```
"password": "6ce714ad-6629-4296-a676-1c0ca5f4689c"
```

```
},
```

```
"id": "95",
```

```
"name": "ITC00E0C514325B",
```

```
"parentID": "-1",
```

```
"movedToBin": false,
```

```
"objectType": "tc",
```

```
"links": []
```

```
}
```

GET /v3/thinclients/{tcId}?facets=networkadapters

Summary

Gets detailed information on all available network adapters for the specified endpoint device. This information is provided for devices as of IGEL OS 11.07.100.

Resource URL

```
/v3/thinclients/{tcId}?facets=networkadapters
```

Example Request

```
curl \
```

```
--request GET \
```

```
https://[server]:8443/umsapi/v3/thinclients/95?facets=networkadapters
```

Request Path Variables

Name	Type	Mandatory	Description
tcId	String	yes	ID of the endpoint device

Response Type

Returns a [TCResourceV3](#) (see page 18) with full details.

Example Response

```
{
  "unitID": "00E0C520986A",
  "mac": "00E0C520986A",
  "firmwareID": "1129",
  "lastIP": "000.00.00.000",
  "networkAdapters": [
    {
      "type": "lan",
      "mac": "00E0C520986A",
      "name": "enp1s0",
      "state": "up"
    }
  ],
  "deviceAttributes": [],
  "id": "97856",
  "name": "TD-RD03",
  "parentID": "36150",
  "movedToBin": false,
  "objectType": "tc",
  "links": []
}
```

GET /v3/thinclients/{tcId}?facets=deviceattributes

Summary

Gets the available device attributes for the specified endpoint device. This request is available as of IGEL OS 11.07.100.

i This method will also list endpoint devices that are located in the **Recycle Bin** ("movedToBin": "true"), but you will not be able to call methods on those endpoint devices.

Resource URL

```
/v3/thinclients/{tcId}?facets=deviceattributes
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients/455?facets=deviceattributes
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18) with full details.

Example Response

```
{
  "unitID": "005056930CAD",
  "mac": "005056930CAD",
  "firmwareID": "19",
  "lastIP": "192.168.30.106",
  "deviceAttributes": [
    {
      "name": "Country",
      "identifier": "country",
      "value": "DE",
      "type": "range",
      "allowedValues": [
        "DE",
        "GB",
        "US"
      ]
    }
  ]
}
```

```
    },
    {
      "name": "Location",
      "identifier": "location",
      "value": "Augsburg",
      "type": "range",
      "allowedValues": [
        "Augsburg",
        "Karlsruhe",
        "San Francisco"
      ]
    }
  ],
  "id": "455",
  "name": "ITC005056930CAD",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tc",
  "links": []
}
```

GET /v3/thinclients/{tcId}/assignments/profiles

Summary

Gets the profile and master profile assignments for the specified thin client, in order of their application.

Resource URL

```
/v3/thinclients/{tcId}/assignments/profiles
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients/48335/assignments/profiles
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	thin client ID

Response Type

Returns a list of Profile and Master Profile [Assignments](#) (see page 23).


Example Response

```
[
{
"assignee": {
"id": "68257",
"type": "profile"
},
"receiver": {
"id": "48335",
"type": "tc"
```

```
  },
  "assignmentPosition": 0,
  "links": [
    {
      "rel": "assigned",
      "href": "https://172.30.91.227:8443/umsapi/v3/profiles/68257"
    },
    {
      "rel": "receiver",
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/48335"
    },
    {
      "rel": "self",
      "href": "https://172.30.91.227:8443/umsapi/v3/profiles/68257/assignments/
thinclients/48335"
    }
  ]
},
{
  "assignee": {
    "id": "72063",
    "type": "masterprofile"
  },
  "receiver": {
    "id": "48335",
    "type": "tc"
  },
}
```


```
"assignmentPosition": 1,  
"links": [  
  {  
    "rel": "assigned",  
    "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72063"  
  },  
  {  
    "rel": "receiver",  
    "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/48335"  
  },  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72063/assignments/  
thinclients/48335"  
  }  
]  
}
```

GET /v3/thinclientview/{viewId}

 This IMI resource is available with UMS 6.10.110 or higher.

Summary

Gets information on all endpoint devices in the view with the id `{viewId}`.

 This method will also list endpoint devices that are located in the **Recycle Bin** (`"movedToBin": "true"`), but you will not be able to call methods on those devices.

Resource URL

```
/v3/thinclientview/{viewId}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclientview/{viewId}
```

Response Type


Returns an Array of [TCResourceV3](#) (see page 18).

Example Response

```
[
{
  "unitID": "00E0C514325B",
  "mac": "00E0C514325B",
  "firmwareID": "6",
  "lastIP": "172.30.92.26",
  "batteryLevel": 0,
```


```
"id": "95",
"name": "ITC00E0C514325B",
"parentID": "-1",
"movedToBin": false,
"objectType": "tc",
"links": []
},
{
  "unitID": "000BCA050027",
  "mac": "000BCA050027",
  "firmwareID": "6",
  "lastIP": "172.30.91.87",
  "batteryLevel": 0,
  "id": "47922",
  "name": "ITC000BCA050027",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tc",
  "links": []
}
]
```

GET /v3/thinclientview/{viewId}?facets=details

 This IMI resource is available with UMS 6.10.110 or higher.

Summary

Gets detailed information on all endpoint devices in the view with the id {viewId}.

 This method will also list endpoint devices that are located in the **Recycle Bin** ("movedToBin": "true"), but you will not be able to call methods on those devices.

Resource URL

```
/v3/thinclientview/{viewId}?facets=details
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclientview/{viewId}?facets=details
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18) with full details.

Example Response

```
[
{
"unitID": "00E0C514325B",
"mac": "00E0C514325B",
"firmwareID": "6",
"networkName": "ITC00E0C514325B",
"lastIP": "172.30.92.26",
"productId": "UD3-LX 50cps",
```


```
"umsStructuralTag": "",
"cpuSpeed": 1200,
"cpuType": "AMD GX-412HC SOC with Radeon(TM) R3E Graphics",
"deviceType": "IGEL M340C",
"deviceSerialNumber": "14D3E3C02B16160323M",
"osType": "IGEL Linux 10 (Kernel Version 4.10.17)",
"flashSize": 1875,
"memorySize": 1705,
"networkSpeed": 1000,
"graphicsChipset0": "ATI MULLINS",
"graphicsChipset1": "",
"monitorVendor1": "Samsung Electric Company",
"monitorModel1": "SyncMaster",
"monitorSerialnumber1": "HMJBC00558",
"monitorSize1": 24,
"monitorNativeResolution1": "1920 x 1200",
"monitor1YearOfManufacture": "2011",
"monitor1WeekOfManufacture": "51",
"monitorVendor2": "",
"monitorModel2": "",
"monitorSerialnumber2": "",
"monitorSize2": 0,
"monitorNativeResolution2": "",
"monitor2YearOfManufacture": "",
"monitor2WeekOfManufacture": "",
"biosVendor": "Insyde Corp.",
```

```
"biosVersion": "M340C V:3.3.13-12162015",
"biosDate": "12/16/2015",
"totalUsagetime": "20",
"totalUptime": "1500380741",
"lastBoottime": "2017-07-18 14:25",
"batteryLevel": -1,
"id": "95",
"name": "ITC00E0C514325B",
"parentID": "-1",
"movedToBin": false,
"objectType": "tc",
"links": []
},
{
"unitID": "000BCA050027",
"mac": "000BCA050027",
"firmwareID": "6",
"networkName": "ITC000BCA050027",
"lastIP": "172.30.91.87",
"productId": "UD2-LX 40acps",
"umsStructuralTag": "",
"cpuSpeed": 1466,
"cpuType": "Intel(R) Atom(TM) CPU E3815 @ 1.46GHz",
"deviceType": "IGEL D220",
"deviceSerialNumber": "1502GVAAA2965",
"osType": "IGEL Linux 10 (Kernel Version 4.10.17)",
```

```
"flashSize": 1875,  
"memorySize": 1894,  
"networkSpeed": 1000,  
"graphicsChipset0": "INTEL HD Graphics (Baytrail)",  
"graphicsChipset1": "",  
"monitorVendor1": "Samsung Electric Company",  
"monitorModel1": "SyncMaster",  
"monitorSerialnumber1": "HMJBC00558",  
"monitorSize1": 24,  
"monitorNativeResolution1": "1920 x 1200",  
"monitor1YearOfManufacture": "2011",  
"monitor1WeekOfManufacture": "51",  
"monitorVendor2": "",  
"monitorModel2": "",  
"monitorSerialnumber2": "",  
"monitorSize2": 0,  
"monitorNativeResolution2": "",  
"monitor2YearOfManufacture": "",  
"monitor2WeekOfManufacture": "",  
"biosVendor": "INSYDE Corp.",  
"biosVersion": "D220-002",  
"biosDate": "02/01/2016",  
"totalUsagetime": "1739549000",  
"totalUptime": "8856000",  
"lastBoottime": "2017-07-18 11:55",  
"batteryLevel": -1,
```


```
"id": "47922",  
"name": "ITC000BCA050027",  
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
}  
]
```


GET /v3/thinclientview/{viewId}?facets=online

 This IMI resource is available with UMS 6.10.110 or higher.

Summary

Gets the online status for all endpoint devices in the view with the id `{viewId}`.

 This method will also list thin endpoint devices that are located in the **Recycle Bin** (`"movedToBin": "true"`), but you will not be able to call methods on those devices.

 When you send this request, UMS cannot answer it from data in the database alone, but makes a network connection to each thin client, which may take some time.

Resource URL

```
/v3/thinclientview/{viewId}?facets=online
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients?facets=online
```

Response Type


Returns an Array of [TCResourceV3](#) (see page 18) with their online status.

Example Response

```
[
{
"unitID": "00E0C514325B",
"mac": "00E0C514325B",
"firmwareID": "6",
```


```
"lastIP": "172.30.92.26",
"online": false,
"batteryLevel": 0,
"id": "95",
"name": "ITC00E0C514325B",
"parentID": "-1",
"movedToBin": false,
"objectType": "tc",
"links": []
},
{
  "unitID": "000BCA050027",
  "mac": "000BCA050027",
  "firmwareID": "6",
  "lastIP": "172.30.91.87",
  "online": true,
  "batteryLevel": 0,
  "id": "47922",
  "name": "ITC000BCA050027",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tc",
  "links": []
}
]
```

GET /v3/thinclientview/{viewId}?facets=shadow

 This IMI resource is available with UMS 6.10.110 or higher.

Summary

Gets the certificate and password for Secure VNC for all endpoint devices in the view with the id `{viewId}`.

 This method will also list endpoint devices that are located in the **Recycle Bin** (`"movedToBin": "true"`), but you will not be able to call methods on those devices.

Learn more about shadowing from the How-To document "[Using Secure VNC via IGEL Management Interface \(IMI\)](#)"⁴.

Resource URL

```
/v3/thinclientview/{viewId}?facets=shadow
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclientview/{viewId}?facets=shadow
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18) with the shadowSecret object, consisting of the certificate and password fields.

Example Response

```
[
{
  "unitID": "00E0C514325B",
  "mac": "00E0C514325B",
  "firmwareID": "6",
```

4. <http://edocs.igel.com/10204968.htm>

```
"lastIP": "000.00.00.00",  
"batteryLevel": 0,  
"shadowSecret": {  
"certificate": "-----BEGIN CERTIFICATE-----  
MIIE1jCCAr6gAwIBAgIEBC0a4zANBgkqhkiG9w0BAQ0FADAQMwCQYDVQQGEwJJE  
RTEPMA0GA1UEBxMGQnJlbWVuMQ0wCwYDVQQKEwRJR0VMMB4XDTE0MDEwMTAwMDAw  
MVoXDTM0MDEwMTAwMDAwMVowLTELMAKGA1UEBhMCREUxDzANBgNVBAClBkZjYzW1  
bjENMAsGA1UEChMESUdFTDCCAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgocGgIB  
AJw6ki ftBFhAnFXGfzMnuhiSYm9QrGFGvryvNpPzEK8f8Svcp62R+jv3bhtLFJcW  
QGf4xn4xRoQUzj48m5Y1Sg12oY/YBNt5xLxKLTeq0HGurpYVan40zoT0FRG+ygpX  
WU0MvPffYscokWo/7Id5EycfBefVwvx6Z09z0b112J8qgmo5/aenWJph70dJbKW  
sH2ojXzjU6tkrMVv80V+68TN0c5I8V2wIzlgqNnpKCZLkSbRjzhd6FMoY0RdqqC  
MLuMAluDoKuj5Z29tGNX1YYnIt7w+DmB18g8hYwbLztLhMqX6pNBfEgi3VLqjUOS  
iIFmfzGT9ZpuCNMfvpXzCWKhwc8WPwzLPNFF9cMI+rYyPWG0mhSuhIJsHvRbddfm  
6nte8Wt7cc2Q0Ha89b1Mwmy4/LKT810Ry0Ge8t66eDrxkGv2dlmimUJ2Tn6E92b9  
WyStLC+FDqEecPC46P8UCEf4c9Ed+MiwRQzwIFBlqAMqljtG1StmwEoYJ8WLazl5  
wG9QpS0zy/4JKTqjm5pLfUYA2xIfnP1h/9ESD7AYU47PNZF/KRh20VCMBHeV79V7  
en/w0NJPeack9ug2XNFWHSARS2Bgb3KAXdtoicBIcjZAtNpm1W5N0aZ70l4zngV0  
V45X0gWxin+7oYXoLaMfi7pm0EnZnmBNWmPSBdjRIQChAgMA/zkwDQYJKoZIhvcN  
AQENBQADggIBAImNVT+x4iprrlBdqChLCK1dhiozzbYBkRQGE8HXryIzCPY+t0z0  
NOZr1xAiL8Iczy1DVZRHsAw5CNSWnSnfKHdd/tDV9aCpITfwUq0b22hrG9wK9P5X  
jZhBusc9BBX1oNL/CiD+Hschhs0qpdL4MMWpH6aSdoK+qxTW8+8300CiLHHzQuB8  
UkP/XSjr/70Cm0uqd71QrfdbrqTzdRmzhKg6SnwUR9j3nToym0iwaZM8ucR/gbN3  
9mz0RiqiGydvyyJ/LJgpV5viERLCK1iUua2SJ4+5NRByS//JfDt90U8YoGXAohMj  
wz55Arc8CJvd2M0W0v00eyIMj7EJzhTDcxS5mmLr16BrsFC37qgFiSsjffoOXnsZ  
MkMC/edUyGSqpJ4N5/huyYkoP/C70SQTXgsDE8gN4kESIWkzHLJCnP/A2A4jaHlm
```

```
G8onZtR92xLSEksggyAAp19Rx9510Rqo27+qooJTQ0D/0vjyf9i+dn9x3cczpmDs
fN9ucu5Bd9TCNlP84pIw7rEyhA+otly47dgC6uL7digv0lfUtwen0gnNWyON9Y20
1SLiF5lyFpEmxq9m/bo6Vci2EWgf4D6Ib+R6ZpRUFvBZUHp6rfXl9Qi1bD5qM4It
Javl7XGk7CyGyF0/SCv3Sx0KP1d54poRY/iXeJ5LES0LpAurXS8/yX4i
-----END CERTIFICATE-----",
"password": "xxx"
},
"id": "95",
"name": "ITC00E0C514325B",
"parentID": "-1",
"movedToBin": false,
"objectType": "tc",
"links": []
},
{
"unitID": "000BCA050027",
"mac": "000BCA050027",
"firmwareID": "6",
"lastIP": "000.00.00.00",
"batteryLevel": 0,
"shadowSecret": {
"certificate": "-----BEGIN CERTIFICATE-----
MIIE2jCCAsKgAwIBAgIIVK2HBBbVnSwvDQYJKoZIhvcNAQENBQAwLTELMAkGA1U
[...]
v7vvw==
-----END CERTIFICATE-----",
```

```
"password": "xxx"  
},  
"id": "47922",  
"name": "ITC000BCA050027",  
"parentID": "-1",  
"movedToBin": false,  
"objectType": "tc",  
"links": []  
}  
]
```

GET /v3/thinclientview/{viewId}?facets=networkadapters

i This IMI resource is available with UMS 6.10.110 or higher.

Summary

Gets detailed information on all available network adapters for all endpoint devices in the view with the id `{viewId}`. This information is provided for devices as of IGEL OS 11.07.100.

i This method will also list endpoint devices that are located in the **Recycle Bin** (`"movedToBin": "true"`), but you will not be able to call methods on those endpoint devices.

Resource URL

```
/v3/thinclientview/{viewId}?facets=networkadapters
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients?facets=networkadapters
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18) with full details.

Example Response

```
[{"unitID":"85641000E583142622","mac":"00E0C520986A","firmwareID":"325","lastIP":"000.00.00.000","networkAdapters":[],"deviceAttributes":[],"id":"36115","name":"TD-RD01","parentID":"36150","movedToBin":false,"objectType":"tc","links":[]}, {"unitID":"00E0C520986A","mac":"00E0C520986A","firmwareID":"1129","lastIP":"000.00.00.000","networkAdapters":[{"type":"lan","mac":"00E0C520986A","name":"enp1s0","state":"up"}],"deviceAttributes":[],"id":"97856","name":"TD-RD03","parentID":"36150","movedToBin":false,"objectType":"tc","links":[]}]
```

PUT /v3/thinclients/{tcId}/assignments/profiles

Summary

Creates Profile and Master Profile Assignments for the specified Thin Client.

Resource URL

```
/v3/thinclients/{tcId}/assignments/profiles
```

Example Request

```
curl \
--request PUT \
--data '[{ "assignee": {
" id": "68257",
" type": "profile"
},
" receiver": {
" id": "48335",
" type": "tc"
}
}]' \
https://[server]:8443/umsapi/v3/thinclients/48335/assignments/profiles
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	thin client ID

Request Body

A list of Profile and Master Profile [Assignments](#) (see page 23).

Example Response

```
{
```



```
"message": "1 assignments successfully assigned to thinclient <48335>"  
}
```



PUT /v3/thinclients

Summary

Creates a new thin client resource.

Resource URL

/v3/thinclients

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '{"mac":"00E0C53C3881", \
"firmwareID":"2"}' \
https://[server]:8443/umsapi/v3/thinclients/
```

Request Body

Name	Type	Mandatory	Description
mac	String (12)	yes	thin client MAC address
firmwareID	String	yes	firmware ID
name	String	no	thin client name
parentID	String	no	ID of parent directory
site	String	no	thin client site
department	String	no	department
costCenter	String	no	cost center
lastIP	String	no	last known IP of thin client
comment	String	no	comment field



assetID	String	no	asset ID
inServiceDate	String	no	
serialNumber	String	no	serial number of thin client
deviceAttributes/identifier * (see page 98)	String	no	UMS internal identifier of the device attribute; see <i>Universal Management Suite > Universal Management Suite (UMS) > UMS Reference Manual > UMS Administration > Global Configuration in the IGEL UMS > Managing Device Attribute for IGEL OS Devices in the IGEL UMS</i>
deviceAttributes/value * (see page 98)	String or number or date	no	value of the device attribute

*Available with UMS 6.10 or higher and IGEL OS 11.07 or higher. Note that the overwrite rule and the string type must be set correctly. For details, see (12.04.120) Managing Device Attributes for IGEL OS Devices in the IGEL UMS.

Response Body

Name	Type	Description
message	String	success or error message
id	String	thin client ID
parentID	String	ID of parent directory
name	String	thin client name

Example Response

```
{
  "message": "Thin client successfully inserted.",
  "id": "7735",
  "name": "My Name",
  "parentID": "-1"
```

```
}
```

PUT /v3/thinclients/{tclid}

Summary

Updates properties of the specified thin client

Resource URL

/v3/thinclients/{tclid}

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '{"name":"reception thin client", \
"site":"main campus"}' \
https://[server]:8443/umsapi/v3/thinclients/123
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	thin client ID

Request Body

General Device Attributes

Name	Type	Mandatory	Description
name	String	no	thin client name
site	String	no	site of operation
department	String	no	department
costCenter	String	no	cost center



lastIP	String	no	last known IP of thin client
comment	String	no	comment field
assetID	String	no	asset ID
inServiceDate	String	no	
serialNumber	String	no	serial number of thin client

Custom Device Attributes

These device attributes are available with UMS 6.10 or higher and IGEL OS 11.07 or higher. Note that the overwrite rule and the string type must be set correctly. For details, see *Universal Management Suite > Universal Management Suite (UMS) > UMS Reference Manual > UMS Administration > Global Configuration in the IGEL UMS > Managing Device Attributes for IGEL OS Devices in the IGEL UMS*

Name	Type	Mandatory	Description
deviceAttributes	Array	no	contains the identifier and the value
deviceAttributes/identifier	String	no	UMS internal identifier of the device attribute; see <i>Universal Management Suite > Universal Management Suite (UMS) > UMS Reference Manual > UMS Administration > Global Configuration in the IGEL UMS > Managing Device Attributes for IGEL OS Devices in the IGEL UMS</i>
deviceAttributes/value	String or number or date	no	value of the device attribute

Example body:

```

{
  "deviceAttributes": [
    {
      "identifier": "location",
      "value": "San Francisco"
    },
    {

```

```
    "identifier": "country",  
    "value": "US"  
  }  
]  
}
```

Response Type

Returns a success message.

Example Response

```
{  
  "message": "Update successful"  
}
```

DELETE /v3/thinclients/{tclid}

Summary

Deletes a thin client.

✘ **Warning:** This does not move the thin client into the **Recycle Bin** but simply deletes it.

Resource URL

```
/v1/thinclients/[id]
```

Example Request

```
curl \
--request DELETE \
https://[server]:8443/umsapi/v3/thinclients/2704
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	thin client ID

Response Type

Returns a message.

Example Response

```
200 OK
---
{
"CommandExecList": [
{
"execID": "ID-PM-MH-WIN7-UMS-63885-1424682219085-5-0",
"mac": "008064AD82FB",
```



```
"message": "OK",  
"exectime": 1424698605821,  
"state": "SUCCESS"  
}  
]  
}
```

DELETE /v3/thinclients/{tclid}/deletetcoffline

Summary

Deletes a thin client even if it is offline.

 This does not move the thin client into the **Recycle Bin** but simply deletes it.

Resource URL

```
/v3/thinclients/[id]/deletetcoffline
```

Example Request

```
curl \
--request DELETE \
https://[server]:8443/umsapi/v3/thinclients/2704/deletetcoffline
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	thin client ID

Response Type

Returns a message.

Example Response

```
200 OK
---
{
  "message": "Offline deletion successful"
}
```

POST /v3/thinclients/?command={reboot|shutdown|wakeup}

Summary

Sends a command to all thin clients listed in the request body.

Resource URL

```
/v3/thinclients/?command={reboot|shutdown|wakeup}
```

Example Request

```
curl \
--request POST \
--data '[{"id":"27", "type":"tc"}, {"id":"72014", "type":"tc"}]'
https://[server]:8443/umsapi/v3/thinclients?command=wakeup
```

Request Body

A list of [APIObjects](#) (see page 12).

Example Response

```
{
  "CommandExecList": [
    {
      "execID": "ID-PM-MH-WIN7-UMS-54530-1456839861871-5-0",
      "id": "72014",
      "mac": "00E0C561EEED",
      "exectime": "1456845240566",
      "message": "OK",
      "state": "SUCCESS"
    },
    {
      "execID": "ID-PM-MH-WIN7-UMS-54530-1456839861871-5-0",
```



```
"id": "27",  
"mac": "00E0C54DCB8E",  
"exectime": "1456845240560",  
"message": "OK",  
"state": "SUCCESS"  
}  
]  
}
```

POST /v3/thinclients?command=settings2tc

Summary

Sends settings modified in the UMS database to all thin clients listed in the request body immediately.

Resource URL

```
/v3/thinclients/?command=settings2tc
```

Example Request

```
curl \
--request POST \
--data '[{"id":"27", "type":"tc"}, {"id":"72014", "type":"tc"}]'
https://[server]:8443/umsapi/v3/thinclients?command=settings2tc
```

Request Body

A list of [APIObjects](#) (see page 12).

Example Response

```
{
  "CommandExecList": [
    {
      "execID": "ID-PM-MH-WIN7-UMS-54530-1456839861871-5-0",
      "id": "72014",
      "mac": "00E0C561EEED",
      "exectime": "1456845240566",
      "message": "OK",
      "state": "SUCCESS"
    },
    {
      "execID": "ID-PM-MH-WIN7-UMS-54530-1456839861871-5-0",
```



```
"id": "27",  
"mac": "00E0C54DCB8E",  
"exectime": "1456845240560",  
"message": "OK",  
"state": "SUCCESS"  
}  
]  
}
```

POST /v3/thinclients/?command=tcreset2facdefs

Summary

Resets all thin clients listed in the request body to factory defaults.

Resource URL

```
/v3/thinclients/?command=tcreset2facdefs
```

Example Request

```
curl \
--request POST \
--data '[{"id":"71342", "type":"tc"}]'
https://[server]:8443/umsapi/v3/thinclients/?command=tcreset2facdefs
```

Request Body

A list of [APIObjects](#) (see page 12).

Example Response

```
{
  "CommandExecList": [
    {
      "execID": "ID-mhuber-59383-1501855717835-6-0",
      "id": "71342",
      "exectime": "1501855812301",
      "message": "OK",
      "state": "SUCCESS"
    }
  ]
}
```

GET /v3/thinclients?facets=loginhistory

Summary

Gets the user login history for all endpoint devices or for a device specified by `deviceid`.

Resource URL

```
/v3/thinclients?facets=loginhistory
```



For a specific device, use `/v3/thinclients/{deviceid}?facets=loginhistory`

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/thinclients?facets=loginhistory
```

Response Type

Returns an Array of [TCResourceV3](#) (see page 18) with the user login history.

Example Response

```
{
  ...
  "userLoginHistory": [
    {
      "username": "Lidija@JAVA.GROUP",
      "loginresult": 0,
      "logintime": "2024-12-30 12:06:21.015",
      "logofftime": "",
      "logontype": "swp"
    }
    ...
  ]
}
```


Profile

- [GET /v3/profiles](#) (see page 113)
- [GET /v3/profiles/{profileid}](#) (see page 116)
- [PUT /v3/profiles/{profileid}](#) (see page 118)
- [DELETE /v3/profiles/{profileid}](#) (see page 119)
- [GET /v3/profiles/{profileid}/assignments/thinclients](#) (see page 120)
- [PUT /v3/profiles/{profileid}/assignments/thinclients/](#) (see page 123)
- [DELETE /v3/profiles/{profileid}/assignments/thinclients/{id}](#) (see page 125)
- [GET /v3/profiles/{profileid}/assignments/tcdirectories](#) (see page 126)
- [PUT /v3/profiles/{profileid}/assignments/tcdirectories](#) (see page 128)
- [DELETE /v3/profiles/{profileid}/assignments/tcdirectories/{id}](#) (see page 130)

GET /v3/profiles

Summary

Gets information on all profiles on the UMS instance.

 This method will also list profiles that are located in the **Recycle Bin** (`"movedToBin": "true"`).

Resource URL

```
/v3/profiles/
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v2/profiles
```

Response Type

Returns a list of profiles.

Example Response

```
[
{
"firmwareID": "2",
"isMasterProfile": false,
"overridesSessions": false,
"id": "6585",
"name": "Benchmark intern",
"parentID": "20453",
```

```
"movedToBin": false,  
"objectType": "profile",  
"links": [  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v3/profiles/6585"  
  },  
  {  
    "rel": "Parent",  
    "href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/  
20453"  
  },  
  {  
    "rel": "Firmware",  
    "href": "https://172.30.91.227:8443/umsapi/v3/firmwares/2"  
  }  
]  
},  
{  
  "firmwareID": "2",  
  "isMasterProfile": false,  
  "overridesSessions": false,  
  "id": "6592",  
  "name": "Benchmark extern",  
  "parentID": "20453",  
  "movedToBin": true,  
  "objectType": "profile",
```

```
"links": [  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v3/profiles/6592"  
  },  
  {  
    "rel": "Parent",  
    "href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/  
20453"  
  },  
  {  
    "rel": "Firmware",  
    "href": "https://172.30.91.227:8443/umsapi/v3/firmwares/2"  
  }  
]  
},  
[...]  
]
```



GET /v3/profiles/{profileid}

Summary

Gets information on the specified profile.

Resource URL

```
/v3/profiles/{profileid}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/profiles/6585
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	profile ID

Response Type

Returns a profile.

Example Response

```
{
  "firmwareID": "2",
  "isMasterProfile": false,
  "overridesSessions": false,
  "id": "6585",
  "name": "Benchmark intern",
  "parentID": "20453",
  "movedToBin": false,
```

```
"objectType": "profile",
"links": [
{
"rel": "self",
"href": "https://172.30.91.227:8443/umsapi/v3/profiles/6585"
},
{
"rel": "Parent",
"href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/
20453"
},
{
"rel": "Firmware",
"href": "https://172.30.91.227:8443/umsapi/v3/firmwares/2"
}
]
}
```

PUT /v3/profiles/{profileid}

Summary

Updates a profile name.

Resource URL

```
/v3/profiles/{profileid}
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '{"name": "New Profile Name"}' \
https://[server]:8443/umsapi/v3/profiles/6585
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	profile ID

Request Body

Name	Type	Mandatory	Description
name	String	no	profile name

Response Type

Returns a success message.


Example Response

```
{
"message": "Update successful"
}
```

DELETE /v3/profiles/{profileid}

Summary

Deletes profile.

 This does not move the master profile into the **Recycle Bin** but simply deletes it.

Resource URL

```
/v3/profiles/{profileid}
```

Example Request

```
curl \
--request DELETE \
https://[server]:8443/umsapi/v3/profiles/72372
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	profile ID

Response Type

Returns a message.

Example Response

```
{
  "message": "Deleted profile with id 72372"
}
```

GET /v3/profiles/{profileid}/assignments/thinclients

Summary

Gets the thin clients the profile is assigned to.

Resource URL

```
/v3/profile/{profileid}/assignments/thinclients
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/profiles/20467/assignments/thinclients
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	profile ID

Response Type

Returns a list of [Assignments](#) (see page 23).

Example Response

```
[
{
  "assignee": {
    "id": "20467",
    "type": "profile"
  },
  "receiver": {
    "id": "23028",
    "type": "tc"
  }
}
```

```
  },
  "assignmentPosition": 0,
  "links": [
    {
      "rel": "assigned",
      "href": "https://172.30.91.227:8443/umsapi/v3/profiles/20467"
    },
    {
      "rel": "receiver",
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/23028"
    },
    {
      "rel": "self",
      "href": "https://172.30.91.227:8443/umsapi/v3/profiles/20467/assignments/
thinclients/23028"
    }
  ]
},
{
  "assignee": {
    "id": "20467",
    "type": "profile"
  },
  "receiver": {
    "id": "48335",
    "type": "tc"
  },
}
```

```
"assignmentPosition": 1,  
"links": [  
  {  
    "rel": "assigned",  
    "href": "https://172.30.91.227:8443/umsapi/v3/profiles/20467"  
  },  
  {  
    "rel": "receiver",  
    "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/48335"  
  },  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v3/profiles/20467/assignments/  
thinclients/48335"  
  }  
]  
}
```

PUT /v3/profiles/{profileid}/assignments/thinclients/

Summary

Assigns a profile to one or more thin clients.

Resource URL

```
/v3/profiles/{profileid}/assignments/thinclients/
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data ' [{ "assignee": {
"id": "20452",
"type": "profile"
},
"receiver": {
"id": "23028",
"type": "tc"}
}]' \
https://[server]:8443/umsapi/v3/profiles/20452/assignments/thinclients/
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	master profile ID

Request Body

A list of [Assignments](#) (see page 23)



Response Type

Returns a success message.

Example Response

```
{  
  "message": "1 assignments successfully assigned to thinclient <23028>"  
}
```

DELETE /v3/profiles/{profileid}/assignments/thinclients/{id}

Summary

Deletes assignment of the specified profile to the specified thin client.

Resource URL

```
/v3/profiles/{profileid}/assignments/thinclients/{id}
```

Example Request

```
curl \
--request DELETE\
https://[server]:8443/umsapi/v3/profiles/68257/assignments/thinclients/48335
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	profile ID
id	String	yes	thin client ID

Response Type

Returns a message.

Example Response

```
200 OK
---
{
  "message": "deleted profile assignment"
}
```

GET /v3/profiles/{profileid}/assignments/tcdirectories

Summary

Gets the thin clients the profile is assigned to.

Resource URL

```
/v3/profile/{profileid}/assignments/thinclients
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/profiles/35549/assignments/tcdirectories/76462
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	profile ID

Response Type

Returns a list of [Assignments](#) (see page 23).

Example Response

```
[
{
  "assignee": {
    "id": "35549",
    "type": "profile"
  },
  "receiver": {
    "id": "76462",
    "type": "tcdirectory"
  }
}
```

```
},
"assignmentPosition": 0,
"links": [
{
"rel": "assigned",
"href": "https://172.30.91.227:8443/umsapi/v3/profiles/35549"
},
{
"rel": "receiver",
"href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/76462"
},
{
"rel": "self",
"href": "https://172.30.91.227:8443/umsapi/v3/profiles/35549/assignments/
tcdirectories/76462"
}
]
}
]
```



PUT /v3/profiles/{profileid}/assignments/tcdirectories

Summary

Assigns a profile to one or more thin client directories.

Resource URL

```
/v3/profiles/{profileid}/assignments/tcdirectories/
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data ' [{ "assignee": {
"id": "35549",
"type": "profile"
},
"receiver": {
"id": "76462",
"type": "tcdirectory"}
}]' \
https://[server]:8443/umsapi/v3/profiles/35549/assignments/tcdirectories/
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	master profile ID

Request Body

A list of [Assignments](#) (see page 23)



Response Type

Returns a success message.

Example Response

```
{  
  "message": "1 assignments successfully assigned to thinclient directory  
<35549>"  
}
```

DELETE /v3/profiles/{profileid}/assignments/tcdirectories/{id}

Summary

Deletes assignment of the specified profile to the specified thin client directory.

Resource URL

```
/v3/profiles/{profileid}/assignments/tcdirectory/{id}
```

Example Request

```
curl \
--request DELETE\
https://[server]:8443/umsapi/v3/profiles/35549/assignments/tcdirectories/76462
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	profile ID
id	String	yes	thin client directory ID

Response Type

Returns a message.

Example Response

```
200 OK
---
{
"message": "deleted profile assignment"
}
```

Priority / Master Profile

As of UMS 12, master profiles are called "priority profiles".

- [GET /v3/masterprofiles](#) (see page 132)
- [GET /v3/masterprofiles/{profileid}](#) (see page 135)
- [PUT /v3/masterprofile/{profileid}](#) (see page 137)
- [DELETE /v3/masterprofiles/{profileid}](#) (see page 138)
- [GET /v3/masterprofiles/{profileid}/assignments/thinclients](#) (see page 139)
- [PUT /v3/masterprofiles/{profileid}/assignments/thinclients/](#) (see page 142)
- [DELETE /v3/masterprofiles/{profileid}/assignments/thinclients/{id}](#) (see page 144)
- [GET /v3/masterprofiles/{profileid}/assignments/tcdirectories](#) (see page 145)
- [PUT /v3/masterprofiles/{profileid}/assignments/tcdirectories/](#) (see page 147)
- [DELETE /v3/masterprofiles/{profileid}/assignments/tcdirectories/{id}](#) (see page 149)

GET /v3/masterprofiles

Summary

Gets information on all priority profiles (called "master profiles" before UMS 12) on the UMS instance.

i This method will also list priority profiles that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/masterprofiles/
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/masterprofiles
```

Response Type

Returns a list of profiles.

Example Response

```
[
{
"firmwareID": "32",
"isMasterProfile": true,
"overridesSessions": false,
"id": "72054",
"name": "Company Master Profile",
"parentID": "-14",
"movedToBin": false,
"objectType": "masterprofile",
```

```
"links": [  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72054"  
  },  
  {  
    "rel": "Parent",  
    "href": "root"  
  },  
  {  
    "rel": "Firmware",  
    "href": "https://172.30.91.227:8443/umsapi/v3/firmwares/32"  
  }  
]  
},  
{  
  "firmwareID": "23",  
  "isMasterProfile": true,  
  "overridesSessions": false,  
  "id": "72055",  
  "name": "Spciaal Master Profile",  
  "parentID": "-14",  
  "movedToBin": false,  
  "objectType": "masterprofile",  
  "links": [  
    {
```

```
"rel": "self",  
"href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72055"  
},  
{  
"rel": "Parent",  
"href": "root"  
},  
{  
"rel": "Firmware",  
"href": "https://172.30.91.227:8443/umsapi/v3/firmwares/23"  
}  
]  
}  
]
```

GET /v3/masterprofiles/{profileid}

Summary

Gets information on the specified priority profile (called "master profiles" before UMS 12).

Resource URL

```
/v3/masterprofiles/{profileid}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/profiles/72054
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	priority profile ID

Response Type

Returns a priority profile.

Example Response

```
{
  "firmwareID": "32",
  "isMasterProfile": true,
  "overridesSessions": false,
  "id": "72054",
  "name": "Company Master Profile",
  "parentID": "-14",
  "movedToBin": false,
  "objectType": "masterprofile",
```

```
"links": [  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72054"  
  },  
  {  
    "rel": "Parent",  
    "href": "root"  
  },  
  {  
    "rel": "Firmware",  
    "href": "https://172.30.91.227:8443/umsapi/v3/firmwares/32"  
  }  
]  
}
```

PUT /v3/masterprofile/{profileid}

Summary

Updates a priority profile name (called "master profiles" before UMS 12).

Resource URL

```
/v3/masterprofiles/{profileid}
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '{"name":"New Master Profile Name"}' \
https://[server]:8443/umsapi/v3/masterprofiles/6585
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	priority profile ID

Request Body

Name	Type	Mandatory	Description
name	String	no	priority profile name

Response Type

Returns a success message.

Example Response

```
{
"message": "Update successful"
}
```

DELETE /v3/masterprofiles/{profileid}

Summary

Deletes a priority profile (called "master profiles" before UMS 12).

 This does not move the priority profile into the **Recycle Bin** but simply deletes it.

Resource URL

```
/v3/masterprofiles/{profileid}
```

Example Request

```
curl \
--request DELETE \
https://[server]:8443/umsapi/v3/masterprofiles/72303
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	priority profile ID

Response Type

Returns a message.

Example Response

```
{
  "message": "Deleted profile with id 72303"
}
```

GET /v3/masterprofiles/{profileid}/assignments/thinclients

Summary

Gets the devices the priority profile (called "master profile" before UMS 12) is assigned to.

Resource URL

```
/v3/masterprofiles/[profileid]/assignments/thinclients
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/masterprofiles/72308/assignments/thinclients
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	priority profile ID

Response Type

Returns a list of [Assignments](#) (see page 23).

Example Response

```
[
{
"assignee": {
"id": "72308",
"type": "masterprofile"
},
"receiver": {
"id": "48335",
"type": "tc"

```

```
  },
  "assignmentPosition": 0,
  "links": [
    {
      "rel": "assigned",
      "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72308"
    },
    {
      "rel": "receiver",
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/48335"
    },
    {
      "rel": "self",
      "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72308/assignments/
thinclients/48335"
    }
  ]
},
{
  "assignee": {
    "id": "72308",
    "type": "masterprofile"
  },
  "receiver": {
    "id": "72014",
    "type": "tc"
  },
}
```

```
"assignmentPosition": 1,  
"links": [  
  {  
    "rel": "assigned",  
    "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72308"  
  },  
  {  
    "rel": "receiver",  
    "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/72014"  
  },  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72308/assignments/  
thinclients/72014"  
  }  
]  
}
```

PUT /v3/masterprofiles/{profileid}/assignments/thinclients/

Summary

Assigns a priority profile (called "master profiles" before UMS 12) to one or more devices.

Resource URL

```
/v3/masterprofiles/[profileid/assignments/thinclients/]
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data ' [{ "assignee": {
"id": "72066",
"type": "masterprofile"
},
"receiver": {
"id": "48335",
"type": "tc"}
}]' \
https://[server]:8443/umsapi/v3/masterprofiles/72066/assignments/thinclients/
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	priority profile ID

Request Body

A list of [Assignments](#) (see page 23)



Response Type

Returns a success message.

Example Response

```
{  
  "message": "1 assignments successfully assigned to thinclient <48335>"  
}
```

DELETE /v3/masterprofiles/{profileid}/assignments/thinclients/{id}

Summary

Deletes assignment of the specified priority profile (called "master profiles" before UMS 12) to the specified device.

Resource URL

```
/v3/masterprofiles/[profileid]/assignments/thinclients/[id]
```

Example Request

```
curl \
--request DELETE\
https://[server]:8443/umsapi/v3/masterprofiles/68257/assignments/thinclients/48335
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	priority profile ID
id	String	yes	thin client ID

Response Type

Returns a message.

Example Response

```
200 OK
---
{
"message": "deleted profile assignment"
}
```



GET /v3/masterprofiles/{profileid}/assignments/tcdirectories

Summary

Gets the device directories the priority profile (called "master profiles" before UMS 12) is assigned to.

Resource URL

```
/v3/masterprofiles/{profileid}/assignments/tcdirectories
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/masterprofiles/72098/assignments/tcdirectories
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	priority profile ID

Response Type

Returns a list of [Assignments](#) (see page 23).

Example Response

```
[
{
"assignee": {
"id": "72098",
"type": "masterprofile"
},
"receiver": {
"id": "76462",
"type": "tcdirectory"
}
}
```

```
  },  
  "assignmentPosition": 0,  
  "links": [  
    {  
      "rel": "assigned",  
      "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72098"  
    },  
    {  
      "rel": "receiver",  
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/76462"  
    },  
    {  
      "rel": "self",  
      "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72098/assignments/  
tcdirectories/76462"  
    }  
  ]  
}  
]
```

PUT /v3/masterprofiles/{profileid}/assignments/tcdirectories/

Summary

Assigns a priority profile (called "master profiles" before UMS 12) to one or more device directories.

Resource URL

```
/v3/masterprofiles/{profileid}/assignments/tcdirectories/]
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data ' [{ "assignee": {
"id": "72098",
"type": "masterprofile"
},
"receiver": {
"id": "76462",
"type": "tcdirectory"}
}]' \
https://[server]:8443/umsapi/v3/masterprofiles/72066/assignments/thinclients/
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	priority profile ID

Request Body

A list of [Assignments](#) (see page 23)



Response Type

Returns a success message.

Example Response

```
{  
  "message": "1 assignments successfully assigned to thinclient directory  
<72098>"  
}
```

DELETE /v3/masterprofiles/{profileid}/assignments/tcdirectories/{id}

Summary

Deletes assignment of the specified priority profile (called "master profiles" before UMS 12) to the specified device directory.

Resource URL

```
/v3/masterprofiles/{profileid}/assignments/tcdirectory/{id}
```

Example Request

```
curl \
--request DELETE \
https://[server]:8443/umsapi/v3/masterprofiles/72098/assignments/tcdirectories/76462
```

Request Path Variables

Name	Type	Mandatory	Description
profileid	String	yes	priority profile ID
id	String	yes	device directory ID

Response Type

Returns a message.

Example Response

```
200 OK
---
{
  "message": "deleted profile assignment"
}
```

Profile Directory

- [GET /v3/directories/profiledirectories](#) (see page 151)
- [GET /v3/directories/profiledirectories?facets=children](#) (see page 155)
- [GET /v3/directories/profiledirectories{id}](#) (see page 160)
- [GET /v3/directories/profiledirectories\[id\]?facets=children](#) (see page 162)
- [PUT /v3/directories/profiledirectories/](#) (see page 165)
- [PUT /v3/directories/profiledirectories/{id}](#) (see page 166)
- [PUT /v3/directories/profiledirectories/\[id\]?operation=move](#) (see page 168)
- [DELETE /v3/directories/profiledirectories/{id}](#) (see page 170)

GET /v3/directories/profiledirectories

Summary

Gets information on all Profile Directories in a flat format..

i This method will also list profile directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/profiledirectories
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/profiledirectories
```

Response Type

Returns a list of Profile Directories.

Example Response

```
[
{
  "id": "72064",
  "name": "New Profile Directory",
  "parentID": "-2",
  "movedToBin": true,
  "objectType": "profiledirectory",
  "links": [
    {
```

```
"rel": "self",  
"href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/  
72064"  
},  
{  
"rel": "Parent",  
"href": "root"  
}  
],  
},  
{  
"id": "20451",  
"name": "Custom Partitions",  
"parentID": "-2",  
"movedToBin": false,  
"objectType": "profiledirectory",  
"links": [  
{  
"rel": "self",  
"href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/  
20451"  
},  
{  
"rel": "Parent",  
"href": "root"  
}  
]  
]
```

```
},  
{  
  "id": "20707",  
  "name": "Standards",  
  "parentID": "-2",  
  "movedToBin": false,  
  "objectType": "profiledirectory",  
  "links": [  
    {  
      "rel": "self",  
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/  
20707"  
    },  
    {  
      "rel": "Parent",  
      "href": "root"  
    }  
  ]  
},  
{  
  "id": "20453",  
  "name": "Benchmarks",  
  "parentID": "-2",  
  "movedToBin": false,  
  "objectType": "profiledirectory",  
  "links": [  
    {
```

```
"rel": "self",  
"href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/  
20453"  
},  
{  
"rel": "Parent",  
"href": "root"  
}  
]  
}  
]
```

GET /v3/directories/profiledirectories?facets=children

Summary

Gets information on all Profile Directories, recursively listing their children.

i This method will also list profile directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/profiledirectories?facets=children
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/profiledirectories/facets=children
```

Response Type

Returns a list of Profile Directories, with their DirectoryChildren fields containing other objects.

Example Response

```
[
{
  "DirectoryChildren": [
    {
      "objectType": "profile",
      "id": "20467",
      "link": {
        "rel": "profile",
        "href": "https://172.30.91.227:8443/umsapi/v3/profiles/20467"
```

```
}  
},  
{  
  "objectType": "profile",  
  "id": "20452",  
  "link": {  
    "rel": "profile",  
    "href": "https://172.30.91.227:8443/umsapi/v3/profiles/20452"  
  }  
},  
{  
  "objectType": "profile",  
  "id": "20449",  
  "link": {  
    "rel": "profile",  
    "href": "https://172.30.91.227:8443/umsapi/v3/profiles/20449"  
  }  
}  
],  
  "id": "20707",  
  "name": "Standards",  
  "parentID": "-2",  
  "movedToBin": false,  
  "objectType": "profiledirectory",  
  "links": [  
    {
```

```
"rel": "self",
"href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/20707"
},
{
"rel": "Parent",
"href": "root"
}
],
},
{
"DirectoryChildren": [
{
"objectType": "profiledirectory",
"id": "72068",
"link": {
"rel": "profiledirectory",
"href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/72068"
}
},
{
"objectType": "profile",
"id": "6592",
"link": {
"rel": "profile",
"href": "https://172.30.91.227:8443/umsapi/v3/profiles/6592"
}
```

```
}  
},  
{  
  "objectType": "profile",  
  "id": "6585",  
  "link": {  
    "rel": "profile",  
    "href": "https://172.30.91.227:8443/umsapi/v3/profiles/6585"  
  }  
}  
},  
],  
  "id": "20453",  
  "name": "Benchmarks",  
  "parentID": "-2",  
  "movedToBin": false,  
  "objectType": "profiledirectory",  
  "links": [  
    {  
      "rel": "self",  
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/  
20453"  
    },  
    {  
      "rel": "Parent",  
      "href": "root"  
    }  
  ]  
}
```

```
},  
{  
  "DirectoryChildren": [],  
  "id": "72068",  
  "name": "A Subdirectory",  
  "parentID": "20453",  
  "movedToBin": false,  
  "objectType": "profiledirectory",  
  "links": [  
    {  
      "rel": "self",  
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/  
72068"  
    },  
    {  
      "rel": "Parent",  
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/  
20453"  
    }  
  ]  
}  
]
```

GET /v3/directories/profiledirectories{id}

Summary

Gets information on a specific Profile Directory.

i This method will also show directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/profiledirectories
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/profiledirectories/20707
```

Response Type

Returns a Profile Directory.

Example Response

```
{
  "id": "20707",
  "name": "Standards",
  "parentID": "-2",
  "movedToBin": false,
  "objectType": "profiledirectory",
  "links": [
    {
      "rel": "self",
```



```
"href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/20707",  
},  
{  
  "rel": "Parent",  
  "href": "root"  
}  
]  
}
```

GET /v3/directories/profiledirectories[id]?facets=children

Summary

Gets information on a specific Profile Directory, recursively listing its children.

i This method will also show directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/profiledirectories{id}?facets=children
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/profiledirectories/20707?
facets=children
```

Response Type

Returns a Profile Directory, with its DirectoryChildren fields containing other objects

Example Response

```
{
  "DirectoryChildren": [
    {
      "objectType": "profile",
      "id": "20467",
      "link": {
        "rel": "profile",
        "href": "https://172.30.91.227:8443/umsapi/v3/profiles/20467"
```

```
}  
},  
{  
  "objectType": "profile",  
  "id": "20452",  
  "link": {  
    "rel": "profile",  
    "href": "https://172.30.91.227:8443/umsapi/v3/profiles/20452"  
  }  
},  
{  
  "objectType": "profile",  
  "id": "20449",  
  "link": {  
    "rel": "profile",  
    "href": "https://172.30.91.227:8443/umsapi/v3/profiles/20449"  
  }  
}  
],  
  "id": "20707",  
  "name": "Standards",  
  "parentID": "-2",  
  "movedToBin": false,  
  "objectType": "profiledirectory",  
  "links": [  
    {
```

```
"rel": "self",  
"href": "https://172.30.91.227:8443/umsapi/v3/directories/profiledirectories/  
20707"  
},  
{  
"rel": "Parent",  
"href": "root"  
}  
]  
}
```

PUT /v3/directories/profiledirectories/

Summary

Creates a Profile Directory.

Resource URL

```
/v3/directories/profiledirectories/
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '{"name":"New Profiles"}' \
https://[server]:8443/umsapi/v3/directories/profiledirectories/
```

Request Body

Name	Type	Mandatory	Description
name	String	no	directory name

Response Type

Returns a success message.

Example Response

```
{
  "message": "Directory successfully inserted.",
  "id": "72090",
  "name": "New Profiles"
}
```

PUT /v3/directories/profiledirectories/{id}

Summary

Updates a Profile Directory name.

Resource URL

```
/v3/directories/profiledirectories/{id}
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '{"name":"New Directory Name"}' \
https://[server]:8443/umsapi/v3/directories/profiledirectories/72340
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	directory ID

Request Body

Name	Type	Mandatory	Description
name	String	no	directory name

Response Type

Returns a success message.

Example Response

```
{
"message": "Updated directory successfully."
}
```

```
}
```

PUT /v3/directories/profiledirectories/[id]?operation=move

Summary

Moves Profiles and Profile Directories into the specified Profile Directory.

Resource URL

```
/v3/directories/profiledirectories/[id]?operation=move
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '[{"id":"20451", "type":"profiledirectory"},
{"id":"6592", "type":"profile"}]' \
https://[server]:8443/umsapi/v3/directories/profiledirectories/72068?
operation=move
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	directory ID

Request Body

A list of [ApiObjects](#) (see page 12)

Response Type

Returns a success message.

Example Response

```
[
{
" id": "20451",
```




```
"results": "successful"  
},  
{  
  "id": "6592",  
  "results": "successful"  
}  
]
```

DELETE /v3/directories/profiledirectories/{id}

Summary

Deletes a Profile Directory.

 This deletes only empty directories. The attempt to delete a non-empty directory results in an error.

Resource URL

```
/v3/directories/profiledirectories/{id}
```

Example Request

```
curl \
--request DELETE\
https://[server]:8443/umsapi/v3/directories/profiledirectories/72327
```

Response Type

Returns a success message.

Example Response

```
{
"message": "Deletion successful."
}
```

Priority / Master Profile Directory

As of UMS 12, master profiles are called "priority profiles".

- [GET /v3/directories/masterprofiledirectories](#) (see page 172)
- [GET /v3/directories/masterprofiledirectories?facets=children](#) (see page 176)
- [GET /v3/directories/masterprofiledirectories/{id}](#) (see page 179)
- [GET /v3/directories/masterprofiledirectories{id}?facets=children](#) (see page 181)
- [PUT /v3/directories/masterprofiledirectories](#) (see page 184)
- [PUT /v3/directories/masterprofiledirectories/{id}](#) (see page 185)
- [PUT /v3/directories/masterprofiledirectories/{id}?operation=move](#) (see page 186)
- [DELETE /v3/directories/masterprofiledirectories{id}](#) (see page 188)

GET /v3/directories/masterprofiledirectories

Summary

Gets information on all priority profile directories (called "master profiles" before UMS 12) in a flat format.

i This method will also list priority profile directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/masterprofiledirectories
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/masterprofiledirectories
```

Response Type

Returns a list of priority profile directories.

Example Response

```
[
{
  "id": "72101",
  "name": "Basic",
  "parentID": "-14",
  "movedToBin": false,
  "objectType": "masterprofiledirectory",
  "links": [
    {
      "rel": "self",
```

```
"href": "https://172.30.91.227:8443/umsapi/v3/directories/
masterprofiledirectories/72101"
},
{
  "rel": "Parent",
  "href": "root"
}
]
},
{
  "id": "72100",
  "name": "Important",
  "parentID": "76552",
  "movedToBin": false,
  "objectType": "masterprofiledirectory",
  "links": [
    {
      "rel": "self",
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/
masterprofiledirectories/72100"
    },
    {
      "rel": "Parent",
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/
masterprofiledirectories/76552"
    }
  ]
}
```


```
  },  
  {  
    "id": "76552",  
    "name": "New Directory",  
    "parentID": "-14",  
    "movedToBin": false,  
    "objectType": "masterprofiledirectory",  
    "links": [  
      {  
        "rel": "self",  
        "href": "https://172.30.91.227:8443/umsapi/v3/directories/  
masterprofiledirectories/76552"  
      },  
      {  
        "rel": "Parent",  
        "href": "root"  
      }  
    ]  
  },  
  {  
    "id": "76556",  
    "name": "Old Directory",  
    "parentID": "-14",  
    "movedToBin": true,  
    "objectType": "masterprofiledirectory",  
    "links": [  
      {
```

```
"rel": "self",  
"href": "https://172.30.91.227:8443/umsapi/v3/directories/  
masterprofiledirectories/76556"  
},  
{  
"rel": "Parent",  
"href": "root"  
}  
]  
}  
]
```

GET /v3/directories/masterprofiledirectories?facets=children

Summary

Gets information on all priority profile directories (called "master profiles" before UMS 12), recursively listing their children.

 This method will also list priority profile directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/masterprofiledirectories?facets=children
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/masterprofiledirectories/
facets=children
```

Response Type

Returns a list of priority profile directories, with their DirectoryChildren fields containing other objects.

Example Response

```
[
{
  "DirectoryChildren": [
    {
      "objectType": "masterprofile",
      "id": "72098",
      "link": {
        "rel": "masterprofile",
        "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72098"
      }
    }
  ]
}
```


```
}
}
],
"id": "72101",
"name": "Basic",
"parentID": "-14",
"movedToBin": false,
"objectType": "masterprofiledirectory",
"links": [
{
"rel": "self",
"href": "https://172.30.91.227:8443/umsapi/v3/directories/
masterprofiledirectories/72101"
},
{
"rel": "Parent",
"href": "root"
}
]
},
{
"DirectoryChildren": [
{
"objectType": "masterprofile",
"id": "72096",
"link": {
"rel": "masterprofile",
```

```
"href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72096"  
}  
}  
],  
"id": "72100",  
"name": "Important",  
"parentID": "-14",  
"movedToBin": false,  
"objectType": "masterprofiledirectory",  
"links": [  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v3/directories/  
masterprofiledirectories/72100"  
  },  
  {  
    "rel": "Parent",  
    "href": "root"  
  }  
]  
}  
]
```

GET /v3/directories/masterprofiledirectories/{id}

Summary

Gets information on a specific priority profile directory (called "master profiles" before UMS 12).

 This method will also show priority profile directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/masterprofiledirectories/{id}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/masterprofiledirectories/20707
```

Response Type

Returns a priority profile directory.

Example Response

```
{
  "id": "72101",
  "name": "Basic",
  "parentID": "-14",
  "movedToBin": false,
  "objectType": "masterprofiledirectory",
  "links": [
    {
      "rel": "self",
```

```
"href": "https://172.30.91.227:8443/umsapi/v3/directories/  
masterprofiledirectories/72101"  
},  
{  
  "rel": "Parent",  
  "href": "root"  
}  
]  
}
```

GET /v3/directories/masterprofiledirectories{id}?facets=children

Summary

Gets information on a specific priority profile directory (called "master profiles" before UMS 12), recursively listing its children.

i This method will also show priority profile directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/masterprofiledirectories{id}?facets=children
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/masterprofiledirectories/72101?
facets=children
```

Response Type

Returns a priority profile directory, with its DirectoryChildren fields containing other objects.

Example Response

```
{
  "DirectoryChildren": [
    {
      "objectType": "masterprofiledirectory",
      "id": "72112",
      "link": {
        "rel": "masterprofiledirectory",
        "href": "https://172.30.91.227:8443/umsapi/v3/directories/
masterprofiledirectories/72112"
```

```
}  
},  
{  
  "objectType": "masterprofile",  
  "id": "72098",  
  "link": {  
    "rel": "masterprofile",  
    "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72098"  
  }  
}  
},  
  "id": "72101",  
  "name": "Basic",  
  "parentID": "-14",  
  "movedToBin": false,  
  "objectType": "masterprofiledirectory",  
  "links": [  
    {  
      "rel": "self",  
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/  
masterprofiledirectories/72101"  
    },  
    {  
      "rel": "Parent",  
      "href": "root"  
    }  
  ]  
}
```

```
}
```

PUT /v3/directories/masterprofiledirectories

Summary

Creates a priority profile directory (called "master profiles" before UMS 12).

Resource URL

```
/v3/directories/masterprofiledirectories
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '{"name":"Yet Another Directory"}' \
https://[server]:8443/umsapi/v3/directories/masterprofiledirectories
```

Request Body

Name	Type	Mandatory	Description
name	String	yes	Priority profile directory name

Response Type

Returns a success message.

Example Response

```
{
  "message": "Directory successfully inserted.",
  "id": "76560",
  "name": "Yet Another Directory"
}
```

PUT /v3/directories/masterprofiledirectories/{id}

Summary

Renames a priority profile directory (called "master profiles" before UMS 12).

Resource URL

```
/v3/directories/masterprofiledirectories/{id}
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '{"name":"New Master Profiles"}' \
https://[server]:8443/umsapi/v3/directories/masterprofiledirectories/76560
```

Request Body

Name	Type	Mandatory	Description
name	String	yes	Priority profile directory name

Response Type

Returns a success message.

Example Response

```
{
"message": "Updated directory successfully."
}
```

PUT /v3/directories/masterprofiledirectories/{id}?operation=move

Summary

Moves priority profiles (called "master profiles" before UMS 12) and priority profile directories into the specified priority profile directory.

Resource URL

```
/v3/directories/masterprofiledirectories/{id}?operation=move
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '[{"id": "72100", "type": "masterprofiledirectory"}, {"id": "72098", "type": "masterprofile"}]' \
https://[server]:8443/umsapi/v3/directories/masterprofiledirectories/76552?operation=move
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	directory ID

Request Body

A list of [ApiObjects](#) (see page 12)

Response Type

Returns a success message.

Example Response

```
[
{
"id": "72098",
```




```
"results": "successful"  
},  
{  
  "id": "72100",  
  "results": "successful"  
}  
]
```

DELETE /v3/directories/masterprofiledirectories{id}

Summary

Deletes a priority profile directory (called "master profiles" before UMS 12).

 This deletes only empty directories. The attempt to delete a non-empty directory results in an error.

Resource URL

```
/v3/directories/masterprofiledirectories/{id}
```

Example Request

```
curl \
--request DELETE\
https://[server]:8443/umsapi/v3/directories/masterprofiledirectories/76559
```

Response Type

Returns a success message.

Example Response

```
{
"message": "Deletion successful."
}
```



Firmware Information

- [GET /v3/firmwares](#) (see page 190)
- [GET /v3/firmwares/{fwld}](#) (see page 192)

GET /v3/firmwares

Summary

Gets information on all firmwares known to the UMS.

Resource URL

```
/v3/firmwares
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/firmwares
```

Response Type

Returns a list of firmwares.

Example Response

```
{
  "FwResource": [
    {
      "id": "2",
      "product": "IGEL Universal Desktop LX",
      "version": "10.02.100.01",
      "firmwareType": "LX",
      "links": []
    },
    {
      "id": "3",
```

```
"product": "IGEL Universal Desktop OS 3",  
"version": "10.02.100.01",  
"firmwareType": "LX",  
"links": []  
},  
{  
"id": "4",  
"product": "IGEL Universal Desktop LX",  
"version": "10.02.120.01",  
"firmwareType": "LX",  
"links": []  
},  
{  
"id": "6",  
"product": "IGEL Universal Desktop LX",  
"version": "10.03.100.rc2.01",  
"firmwareType": "LX",  
"links": []  
}  
]  
}
```

GET /v3/firmwares/{fwId}

Summary

Gets information on a specific firmware.

Resource URL

```
/v3/firmwares/{fwId}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/firmwares/4
```

Request Path Variables

Name	Type	Mandatory	Description
fwId	String	yes	firmware ID

Response Type

Returns a firmware.

Example Response

```
{
  "id": "6",
  "product": "IGEL Universal Desktop LX",
  "version": "10.03.100.rc2.01",
  "firmwareType": "LX",
  "links": []
}
```

Template Keys

In the IGEL Management Interface, you can use the following requests to create template keys and values and assign them to devices:

- [PUT /v3/template/assign/tc](#) (see page 194)
- [PUT /v3/template/assign/dir](#) (see page 196)
- [GET /v3/template/{id}/read](#) (see page 198)
- [PUT /v3/template](#) (see page 200)
- [PUT /v3/template/{id}/value](#) (see page 202)

PUT /v3/template/assign/tc

Summary

Assigns a template key and value to a device.

Resource URL

```
/v3/template/assign/tc
```

Example Request

```
curl \
--request PUT \
--header "Content-type": application/json
{
  "tcId": 2650,
  "template":
  [
    { "templateId": 2637,
      "valueId": 2638
    }
  ]
}
https://[server]:8443/umsapi/v3/template/assign/tc
```

Request Body

Name	Type	Mandatory	Description
tcId	String	yes	Device ID
templateId	String	yes	Template key ID
valueId	String	yes	Template value ID

Response Type

Returns a success message.



Example Response

```
{  
  "message": Template value successfully assigned to device.  
}
```

PUT /v3/template/assign/dir

Summary

Assigns a template key and value to a device directory.

Resource URL

```
/v3/template/assign/dir
```

Example Request

```
curl \
--request PUT \
--header "Content-type": application/json
{
  "dirId": 954,
  "template":
  [
    { "templateId": 2637,
      "valueId": 2638
    }
  ]
}
https://[server]:8443/umsapi/v3/template/assign/dir
```

Request Body

Name	Type	Mandatory	Description
dirId	String	yes	Directory ID
templateId	String	yes	Template key ID
valueId	String	yes	Template value ID

Response Type

Returns a success message.



Example Response

```
{  
  "message": Template value successfully assigned to device directory.  
}
```

GET /v3/template/{id}/read

Summary

Gets information on template keys and their values by id.

Resource URL

```
/v3/template/{id}/read
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/template/2637/read
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	Template key ID

Response Type

Returns a list of template key values.

Example Response

```
[
{
  "id": 2638,
  "value": "value1",
  "name": "tk",
  "parentId": 2637,
  "description": "",
  "type": "StringType"
},
{
  "id": 2640,
  "value": "value2",
  "name": "tk",
```



```
"parentId": 2637,  
"description": "",  
"type": "StringType"  
}  
]
```

PUT /v3/template

Summary

Creates a new template key.

Resource URL

```
/v3/template
```

Example Request

```
curl \
--request PUT \
--header "Content-type": application/json
{
  "name": "tk2",
  "type": "StringType",
  "parentID": 2643
}
https://[server]:8443/umsapi/v3/template
```

Request Body

Name	Type	Mandatory	Description
name	String	yes	Template key name
type	String	yes	Template key type
parentID	String	no	ID of template key folder (if template key is not directly in root)

Response Type

Returns a success message.

Example Response

```
{
  "id": "2644",
```



```
"name": "tk2",  
"parentID": "2643",  
"message": "Template key successfully created."  
}
```

PUT /v3/template/{id}/value

Summary

Assigns a template value to a template key.

Resource URL

```
/v3/template/{id}/value
```

Example Request

```
curl \
--request PUT \
--header "Content-type": application/json
{
"value": "new value",
"description": "new value",
"type": "StringType"
}
https://localhost:8443/umsapi/v3/template/2637/value
```

Request Body

Name	Type	Mandatory	Description
value	String	yes	Template value
description	String	yes	Template value description
type	String	yes	Template key type
id	String	yes	Template key ID

Response Type

Returns a success message.

Example Response

```
{  
  "id": "2646",  
  "value": "new value",  
  "message": "Template value successfully created."  
}
```

Device Directory

- [GET /v3/directories/tcdirectories](#) (see page 205)
- [GET /v3/directories/tcdirectories?facets=children](#) (see page 207)
- [GET /v3/directories/tcdirectories/{id}](#) (see page 212)
- [GET /v3/directories/tcdirectories/{id}?facets=children](#) (see page 214)
- [PUT /v3/directories/tcdirectories/](#) (see page 219)
- [PUT /v3/directories/tcdirectories/{id}](#) (see page 220)
- [PUT /v3/directories/tcdirectories/{id}?operation=move](#) (see page 221)
- [DELETE /v3/directories/tcdirectories/{id}](#) (see page 223)
- [GET /v3/directories/tcdirectories/{id}/assignments/profiles](#) (see page 224)
- [PUT /v3/directories/tcdirectories/{id}/assignments/profiles](#) (see page 227)

GET /v3/directories/tcdirectories

Summary

Gets information on all Thin Client Directories in a flat format.

i This method will also list directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/tcdirectories
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/tcdirectories
```

Response Type

Returns a list of [Directories](#) (see page 25).

Example Response

```
[
{
  "id": "50705",
  "name": "New",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tcdirectory",
  "links": [
    {
      "rel": "self",
```

```
"href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/50705"
},
{
  "rel": "Parent",
  "href": "root"
}
],
},
{
  "id": "15592",
  "name": "Pool",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tcdirectory",
  "links": [
    {
      "rel": "self",
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/15592"
    },
    {
      "rel": "Parent",
      "href": "root"
    }
  ]
}
]
```

GET /v3/directories/tcdirectories?facets=children

Summary

Gets information on all Thin Client Directories, recursively listing their children.

i This method will also list directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/tcdirectories?facets=children
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/tcdirectories/facets=children
```

Response Type

Returns a list of [Directories](#) (see page 25), with their DirectoryChildren fields containing other objects.

Example Response

```
[
{
  "id": "50705",
  "name": "New",
  "parentID": "-1",
  "movedToBin": true,
  "objectType": "tcdirectory",
  "links": [
    {
      "rel": "self",
```

```
"href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/50705"
},
{
  "rel": "Parent",
  "href": "root"
}
],
},
{
  "DirectoryChildren": [
    {
      "objectType": "tc",
      "id": "7117",
      "link": {
        "rel": "tc",
        "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/7117"
      }
    },
    {
      "objectType": "tc",
      "id": "6888",
      "link": {
        "rel": "tc",
        "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/6888"
      }
    }
  ],
},
```

```
{
  "objectType": "tc",
  "id": "23028",
  "link": {
    "rel": "tc",
    "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/23028"
  }
},
{
  "id": "72327",
  "name": "Sub",
  "parentID": "15592",
  "movedToBin": false,
  "objectType": "tcdirectory",
  "links": [
    {
      "rel": "self",
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/72327"
    },
    {
      "rel": "Parent",
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/15592"
    }
  ]
},
{
```



```
"DirectoryChildren": [  
  {  
    "objectType": "tcdirectory",  
    "id": "72327",  
    "link": {  
      "rel": "tcdirectory",  
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/72327"  
    }  
  },  
  {  
    "objectType": "tc",  
    "id": "7121",  
    "link": {  
      "rel": "tc",  
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/7121"  
    }  
  },  
  {  
    "objectType": "tc",  
    "id": "6907",  
    "link": {  
      "rel": "tc",  
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/6907"  
    }  
  },  
  {  
    "objectType": "tc",  
    "id": "6907",  
    "link": {  
      "rel": "tc",  
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/6907"  
    }  
  },  
  {  
    "objectType": "tc",  
    "id": "6907",  
    "link": {  
      "rel": "tc",  
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/6907"  
    }  
  },  
  {  
    "objectType": "tc",  
    "id": "6907",  
    "link": {  
      "rel": "tc",  
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/6907"  
    }  
  },  
  {  
    "objectType": "tc",  
    "id": "6907",  
    "link": {  
      "rel": "tc",  
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/6907"  
    }  
  },  
  {  
    "objectType": "tc",  
    "id": "6907",  
    "link": {  
      "rel": "tc",  
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/6907"  
    }  
  }  
]
```

[...]

GET /v3/directories/tcdirectories/{id}

Summary

Gets information on a specific Thin Client Directory.

i This method will also list directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/tcdirectories/{id}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/tcdirectories/15592
```

Response Type

Returns a [Directory](#) (see page 25).

Example Response

```
{
  "id": "15592",
  "name": "Pool",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tcdirectory",
  "links": [
    {
      "rel": "self",
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/15592"
```

```
},  
{  
  "rel": "Parent",  
  "href": "root"  
}  
]  
}
```

GET /v3/directories/tcdirectories/{id}?facets=children

Summary

Gets information a Thin Client Directory, recursively listing its children.

i This method will also list directories that are located in the **Recycle Bin** ("movedToBin": "true").

Resource URL

```
/v3/directories/tcdirectories/{id}?facets=children
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/tcdirectories/15592?facets=children
```

Response Type

Returns a [Directory](#) (see page 25), with its DirectoryChildren field containing other objects.

Example Response

```
{
  "DirectoryChildren": [
    {
      "objectType": "tcdirectory",
      "id": "72327",
      "link": {
        "rel": "tcdirectory",
        "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/72327"
      }
    }
  ]
}
```

```
},  
{  
  "objectType": "tc",  
  "id": "7121",  
  "link": {  
    "rel": "tc",  
    "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/7121"  
  }  
},  
{  
  "objectType": "tc",  
  "id": "6907",  
  "link": {  
    "rel": "tc",  
    "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/6907"  
  }  
},  
{  
  "objectType": "tc",  
  "id": "11219",  
  "link": {  
    "rel": "tc",  
    "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/11219"  
  }  
},  
{
```

```
"objectType": "tc",
"id": "15223",
"link": {
"rel": "tc",
"href": "https://172.30.91.227:8443/umsapi/v3/thinclients/15223"
}
},
{
"objectType": "tc",
"id": "15553",
"link": {
"rel": "tc",
"href": "https://172.30.91.227:8443/umsapi/v3/thinclients/15553"
}
},
{
"objectType": "tc",
"id": "7113",
"link": {
"rel": "tc",
"href": "https://172.30.91.227:8443/umsapi/v3/thinclients/7113"
}
},
{
"objectType": "tc",
"id": "6899",
```

```
"link": {  
  "rel": "tc",  
  "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/6899"  
},  
{  
  "objectType": "tc",  
  "id": "6912",  
  "link": {  
    "rel": "tc",  
    "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/6912"  
  },  
  {  
    "objectType": "tc",  
    "id": "26836",  
    "link": {  
      "rel": "tc",  
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/26836"  
    }  
  }  
],  
"id": "15592",  
"name": "Pool",  
"parentID": "-1",  
"movedToBin": false,
```

```
"objectType": "tcdirectory",
"links": [
{
"rel": "self",
"href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/15592"
},
{
"rel": "Parent",
"href": "root"
}
]
}
```

PUT /v3/directories/tcdirectories/

Summary

Creates a Thin Client Directory.

Resource URL

```
/v3/directories/tcdirectories/
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '{"name":"Test"}' \
https://[server]:8443/umsapi/v3/directories/tcdirectories/
```

Request Body

Name	Type	Mandatory	Description
name	String	no	directory name

Response Type

Returns a success message.

Example Response

```
{
"message": "Directory successfully inserted.",
"id": "72340",
"name": "Test"
}
```

PUT /v3/directories/tcdirectories/{id}

Summary

Updates a Thin Client Directory name.

Resource URL

```
/v3/directories/tcdirectories/{id}
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '{"name":"New Directory Name"}' \
https://[server]:8443/umsapi/v3/directories/tcdirectories/72340
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	directory ID

Request Body

Name	Type	Mandatory	Description
name	String	no	directory name

Response Type

Returns a success message.

Example Response

```
{
"message": "Updated directory successfully."
}
```

PUT /v3/directories/tcdirectories/{id}?operation=move

Summary

Moves Thin Clients and Thin Client Directories into the specified Thin Client Directory.

Resource URL

```
/v3/directories/tcdirectories/{id}?operation=move
```

Example Request

```
curl \
--request PUT \
--header "Content-type: application/json" \
--data '[{"id": "76462", "type": "tcdirectory"}, {"id": "7121", "type": "tc"}]' \
https://[server]:8443/umsapi/v3/directories/tcdirectories/72340?operation=move
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	Thin Client Directory ID

Request Body

A list of [ApiObjects](#) (see page 12)

Response Type

Returns a success message.

Example Response

```
[
{
  "id": "7121",
  "results": "successful"
}
```




```
},  
{  
  "id": "76462",  
  "results": "successful"  
}  
]
```

DELETE /v3/directories/tcdirectories/{id}

Summary

Deletes a Thin Client Directory.

 This deletes only empty directories. The attempt to delete a non-empty directory results in an error.

Resource URL

```
/v3/directories/tcdirectories/{id}
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/tcdirectories/72327
```

Response Type

Returns a success message.

Example Response

```
{
  "message": "Deletion successful."
}
```



GET /v3/directories/tcdirectories/{id}/assignments/profiles

Summary

Gets the profile and master profile assignments for the specified thin client directory, in order of their application.

Resource URL

```
/v3/directories/tcdirectories/{id}/assignments/profiles
```

Example Request

```
curl \
--request GET \
https://[server]:8443/umsapi/v3/directories/tcdirectories/76462/assignments/profiles
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	Thin Client Directory ID

Response Type

Returns a list of Profile and Master Profile [Assignments](#) (see page 23).

Example Response

```
[
{
"assignee": {
"id": "35549",
"type": "profile"
},
"receiver": {
"id": "76462",
"type": "tcdirectory"
```

```
},
"assignmentPosition": 0,
"links": [
{
"rel": "assigned",
"href": "https://172.30.91.227:8443/umsapi/v3/profiles/35549"
},
{
"rel": "receiver",
"href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/76462"
},
{
"rel": "self",
"href": "https://172.30.91.227:8443/umsapi/v3/profiles/35549/assignments/
tcdirectories/76462"
}
]
},
{
"assignee": {
"id": "72098",
"type": "masterprofile"
},
"receiver": {
"id": "76462",
"type": "tcdirectory"
},
},
```

```
"assignmentPosition": 1,  
"links": [  
  {  
    "rel": "assigned",  
    "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72098"  
  },  
  {  
    "rel": "receiver",  
    "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/76462"  
  },  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v3/masterprofiles/72098/assignments/  
tcdirectories/76462"  
  }  
]  
]  
]
```

PUT /v3/directories/tcdirectories/[id]/assignments/profiles

Summary

Creates profile and master profile assignments for the specified thin client directory.

Resource URL

```
/v3/directories/tcdirectories/{id}/assignments/profiles
```

Example Request

```
curl \
--request PUT \
--data '[{ "assignee": {
"id": "35549",
"type": "profile"
},
"receiver": {
"id": "76462",
"type": "tcdirectory"}
}]' \
https://[server]:8443/umsapi/v3/directories/tcdirectories/76462/assignments/
profiles
```

Request Path Variables

Name	Type	Mandatory	Description
id	String	yes	Thin Client Directory ID

Request Body

A list of Profile and Master Profile [Assignments](#) (see page 23).

Example Response

```
{
```



```
"message": "1 assignments successfully assigned to thinclient directory  
<76462>"  
}
```



Error Codes

- [HTTP Status Codes](#) (see page 230)
- [API Error Messages](#) (see page 231)

HTTP Status Codes

Client-Side Errors

HTTP Status	Title	Description
200	OK	The request was successful. However, it is a good idea to read the API message.
400	Bad Request	The request does not match the API, e.g. it uses the wrong HTTP method
401	Unauthorized	The client has not logged in or has sent the wrong credentials.
404	Not Found	The endpoint does not exist, it may be misspelled.
415	Unsupported Media Type	The body content, e.g. JSON, does not match the Content-Type header or is not well-formed.

Server-Side Errors

HTTP Status	Title	Description
500	Internal Server Error	The server has encountered an error, check the server logfiles <code>catalina.log</code> and <code>stderr</code>



API Error Messages

The API server will send a message in the response body, should an error occur:

```
{
  "message": "Request method 'GET' not supported",
  "errorCode": "ITG-0A011",
  "stackTrace": "[org.springframework.web.servlet.mvc.m ...
  [...]
}
```

Error Code	Message
Client Errors	
ITG-0A001	Thin client with ID [id] not found.
ITG-0A002	No target directory with ID [id] found.
ITG-0A003	[command] is an invalid command.
ITG-0A004	Invalid request body
ITG-0A005	"Could not read JSON: [...]"
ITG-0A006	Directory with ID [id] is not empty. Remove content first.
ITG-0A007	No MAC defined.
ITG-0A008	[...] The statement was aborted because it would have caused a duplicate key value [...]
ITG-0A009	No firmware defined.
ITG-0A010	Number format error
ITG-0A011	Request method [method] not supported.
ITG-0A012	IDList is empty.
ITG-0A013	No valid property in body
ITG-0A014	MAC must be 12 characters long.
ITG-0A015	Firmware with ID [id] does not exist.

ITG-0A016	Parent with ID [id] does not exist.
ITG-0A017	Target directory is in Recycling Bin. In order to use it revert it first.
ITG-0A018	Thin client is in Recycling Bin. In order to use it, revert it first.
ITG-0A019	Invalid assignment receiver
ITG-0A020	No handler is mapped for this request.
ITG-0A021	Invalid assignment
ITG-0A022	Profile is in Recycling Bin.
ITG-0A023	Directory has Default Directory Rule
ITG-0A024	Invalid thin client name
Authentication Errors	
ITG-0B001	No authentication header found in request.
ITG-0B002	Invalid login credentials.
ITG-0B003	No session ID found.
ITG-0B004	No session found for requested session ID [id].
ITG-0B005	Access denied.
ITG-0B006	No valid IMI API version.
ITG-0B007	No user found in session with sessionID
Licensing Errors	
ITG-0C001	License required
ITG-0C002	Invalid IMI version
Server Errors	
ITG-FF001	Internal error
ITG-FF002	Database error
ITG-FF003	Cache error
ITG-FF004	Server not available
ITG-FF005	Object mapping error
ITG-FF006	Invalid object type



IMI How-Tos

- [Using Secure VNC via IGEL Management Interface \(IMI\) \(see page 234\)](#)

Using Secure VNC via IGEL Management Interface (IMI)

This document describes making SSL/TLS-secured VNC connections to *IGEL* Linux thin clients using the credentials provided by *IGEL Management Interface (IMI)* Version 2 .

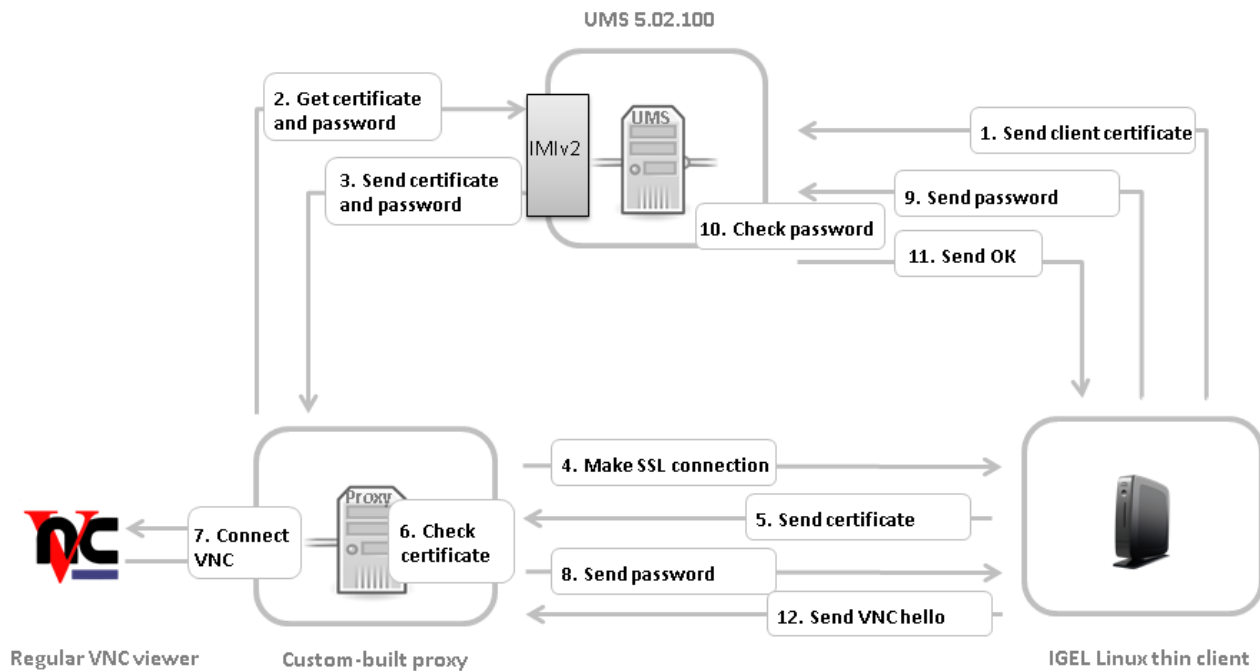
Prerequisites

- *Universal Management Suite (UMS)* 5.02.100
- *IMI* maintenance subscription covering version 2
- *IGEL LX* thin clients with *IGEL Linux* version 5.03.190 or newer

Apart from that, you will have to implement a [custom VNC proxy](#) (see page 235).

Secure VNC with IMIv2

This section describes the Secure VNC procedure, parts of which your custom VNC proxy has to implement.



1. The thin client sends its certificate to UMS on boot.

i For a thin client newly registered to the UMS, either

- reboot the thin client once or
- use UMS Console to send **Settings UMS > TC** and send **Settings TC > UMS** once

2. Via the IMIv2 REST API, the custom proxy asks UMS for the credentials necessary for shadowing the thin client:

```
GET /umsapi/v2/thinclients/[thin client ID]?facets=shadow
```

3. The custom proxy receives the credentials:

- the thin client certificate in Base64 encoding, or an empty string if UMS has not received a certificate
- a one-time-password in the form of a Java UUID for logging in within the next 5 min.

4. The custom proxy initiates a SSL connection to the thin client's TCP port 5900.

5. The thin client sends its certificate.

6. The custom proxy checks the certificate against the one received from UMS and decides whether to accept it and proceed with the connection.

7. The custom proxy opens a TCP server socket for an external VNC viewer to connect to. The custom proxy must connect the network streams involved as follows:

- write to the VNC viewer what it reads from the SSL connection with the thin client

- write to the SSL connection with the thin client what it reads from the VNC viewer

Make the external VNC viewer connect to the custom proxy's server socket.

8. On accepting the connection from the external VNC viewer, the custom proxy writes the String

```
PROCYCMD PW_[one-time password]
```

to the SSL connection with the thin client.

9. The thin client sends the password to UMS.

10. UMS checks the password.


11. If the password is correct, UMS tells the thin client to proceed. Otherwise the connection will be closed.

12. The thin client sends a string like `RFB 003.008\n` as a VNC hello which initiates the VNC session with the external VNC viewer.


Device Configuration

Make the following device configuration either locally, via UMS or through a profile:

1. Go to **System > Remote Access > Shadow**
2. Enable **Allow Remote Shadowing**
3. Optional: Enable **Prompt User to allow Remote Session**

 In a number of countries, unannounced shadowing is prohibited by law. Do not disable this option if you are in one of these countries!

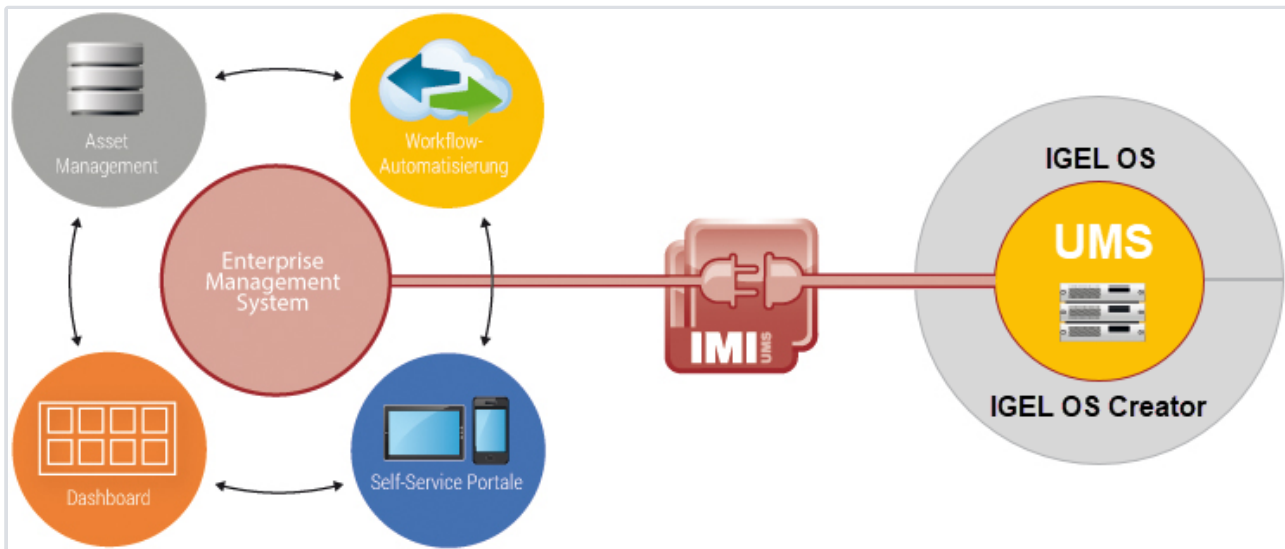
4. Optional: Enable **Allow Input from Remote**
5. Enable **Secure Mode**

 Alternatively, you can globally activate Secure VNC for all thin clients under **UMS Administration > Remote Access > Secure VNC**.

6. Optional: Enable **Allow User to disconnect Remote Shadowing**

IMI Manual

IGEL Management Interface (IMI) enables you to connect UMS to systems management tools. It is a programming interface that can create and delete endpoint devices, move them between directories, reboot them and much more. Its implementation as a REST API makes IMI agnostic of hardware platforms, operating systems and programming languages, thus ensuring maximum interoperability.



This document serves as an introduction to using IGEL Management Interface (IMI).

Detailed information about the requests can be found under [IMI API V3 Reference](#) (see page 3).

- [Licensing](#) (see page 239)
- [REST Basics](#) (see page 240)
- [Prerequisites](#) (see page 243)
- [First Steps](#) (see page 244)
- [Creating, Updating and Deleting Resources](#) (see page 258)
- [Further Operations](#) (see page 266)

Licensing

The licensing for IGEL Management Interface (IMI) depends on the UMS version you are using.

When Asset Inventory Tracker (AIT) has been licensed, you can use the resources `assetinfo` and `asethistory`.

UMS 12.07.100 or Newer

For information on the required UMS license for using IMI and AIT, see [IGEL Software Licenses for IGEL OS and IGEL UMS⁵](#) and [IGEL OS Editions⁶](#).

UMS 6.01.100 or Newer

IMI is part of the IGEL Workspace Edition (WE); no additional license is necessary.

For Asset Inventory Tracker (AIT), licenses from the Enterprise Management Pack (EMP) are required.

UMS 5.09.100 or Older

For basic functionality, see *Knowledge Base Archive > Licenses & More Legacy PDF > Licensing IMI*

For Asset Inventory Tracker (AIT), see *Knowledge Base Archive > Licenses & More Legacy PDF > Licensing AIT*

5. <https://kb.igel.com/en/igel-subscription-and-more/current/igel-software-licenses-for-igel-os-and-igel-ums>

6. <https://kb.igel.com/en/igel-subscription-and-more/current/igel-os-editions>

REST Basics

IGEL Management Interface uses *REST*, which stands for Representational State Transfer.

REST is an architectural style for client-server applications, mainly implemented in the HTTP(S) protocol. Therefore it can be used with all technologies that can send and receive HTTP requests.

REST establishes a typical pattern that helps programmers to understand the structure of individual APIs. Its most important concepts are Resources and [HTTP Methods](#) (see page 242).

Resources in IGEL Management Interface

URLs Represent Resources

A REST API makes resources available at specific URLs. You can find a list of all thin clients in the UMS REST API at:

- `https://[server]:8443/umsapi/v3/thinclients`

In a shorter notation, which assumes the base URL to be known:

- `/v3/thinclients`

In order to address an individual instance of a resource - a thin client, for example - you specify its ID in the URL:

- `/v3/thinclients/8`

Further Examples of Resources

URL	Resource
<code>/v3/directories/tcdirectories</code>	A list of all thin client directories
<code>/v3/directories/tcdirectories/123</code>	The thin client directory with the ID 123
<code>/v3/firmwares</code>	A list of all firmwares in the UMS instance
<code>/v3/firmwares/7</code>	The firmware with the ID 7

Find a list of all available resources here: [IGEL Management Interface > IMI API V3 Reference](#)

HTTP Methods

You call HTTP methods for resources in order to manipulate them. The REST architectural style has a conventional meaning for each of the HTTP methods, which are also called verbs. The methods are listed below:

HTTP Method	
GET	Read information from a resource.
PUT	Create a new resource or update an existing resource.
POST	(Create a new resource *), send a command.
DELETE	Delete a resource.

* There is a subtle semantic difference between PUT and POST, which is sometimes a matter of dispute. *IMI* API favors

- PUT for create and update actions and uses
- POST for logins and for sending commands to resources.

Prerequisites

IGEL Universal Management Suite (UMS)

UMS 5.07.100 or higher

Networking


In order to use *IGEL Management Interface* you need to be able to reach the API host via the network and connect to its API port, TCP 8443 by default.

The base URL is

- `https://[server]:8443/umsapi/`

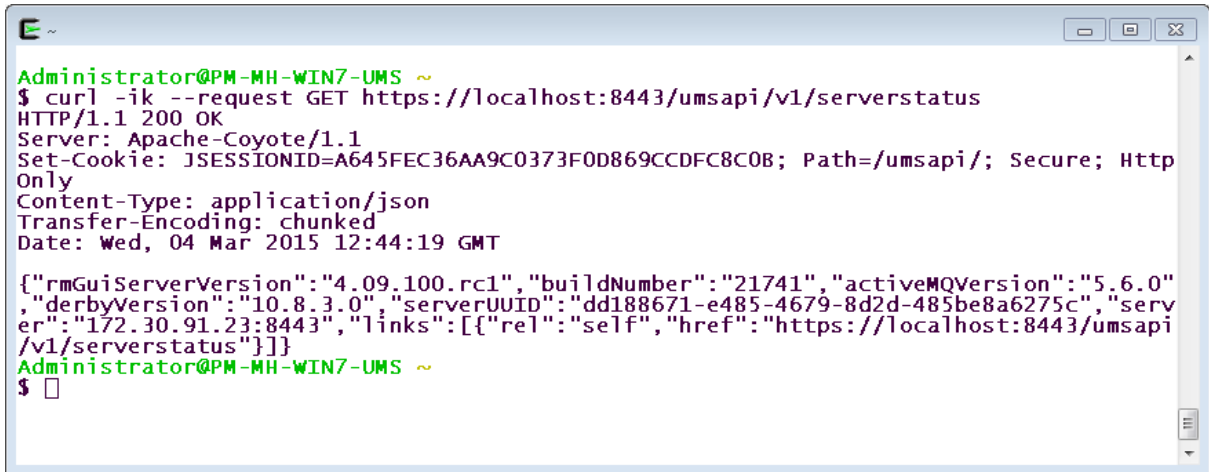
The resources for IMI version 3 are available at:

- `https://[server]:8443/umsapi/v3/`

 IMI uses HTTPS to ensure the integrity and confidentiality of network traffic. It is good practice to use a valid server certificate with a verifiable signature. For more information, see *Universal Management Suite > Universal Management Suite (UMS) > UMS Articles > IGEL UMS Environment > How to Use Your Own Certificates for Communication over the Web Port (Default: 8443) in IGEL UMS*

First Steps

- [Client Applications and Libraries](#) (see page 245)
- [Authentication](#) (see page 247)
- [Listing all Devices](#) (see page 248)
- [Getting Information on a Device](#) (see page 251)
- [Getting All Details about a Device](#) (see page 253)
- [Getting Device Status](#) (see page 256)



```
Administrator@PM-MH-WIN7-UMS ~  
$ curl -ik --request GET https://localhost:8443/umsapi/v1/serverstatus  
HTTP/1.1 200 OK  
Server: Apache-Coyote/1.1  
Set-Cookie: JSESSIONID=A645FEC36AA9C0373F0D869CCDFC8C0B; Path=/umsapi/; Secure; Http  
Only  
Content-Type: application/json  
Transfer-Encoding: chunked  
Date: Wed, 04 Mar 2015 12:44:19 GMT  
  
{  
  "rmGuiServerVersion": "4.09.100.rc1",  
  "buildNumber": "21741",  
  "activeMQVersion": "5.6.0",  
  "derbyVersion": "10.8.3.0",  
  "serverUUID": "dd188671-e485-4679-8d2d-485be8a6275c",  
  "server": "172.30.91.23:8443",  
  "links": [{"rel": "self", "href": "https://localhost:8443/umsapi/v1/serverstatus"}]  
}  
Administrator@PM-MH-WIN7-UMS ~  
$
```

This guide uses cURL for examples, as the commandline makes all parameters visible in plain text. This need not stop you from using RESTClient if you are more comfortable with it. You can easily translate the commandline parameters into the fields of the RESTClient *RESTClient* GUI.

Programming libraries

Most programming languages provide an HTTP and an SSL module, either in their standard library or as an extension, and a JSON library (for the API data format) as well.

Authentication

You must be authenticated in order to use *IGEL Management Interface*, otherwise the server will return the HTTP status 401 "Unauthorized". Only querying the server status is allowed without authentication.

IMI uses *Basic Authentication* ([RFC 2617](#) (see page 247)).

Logging In

→ Send an HTTP POST request to `/login` to log in. Your HTTP client of choice will offer a way of sending a *Basic Authentication*-header, which is produced from the username/password combination.

This is the commandline for *cURL*:

```
curl \  
--request POST \  
--user '[Username]:[Passwort]' \  
https://[server]:8443/umsapi/v3/login
```

The server replies, sending back a session ID:


```
200 OK  
Set-Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC; Path=/umsapi/; Secure;  
HttpOnly  
---  
{"message": "JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC"}
```

Staying Logged in

→ You can maintain the session by sending the `JSESSIONID` in the cookie header with every subsequent request:

```
Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC
```

Some clients will do this automatically for you, e.g. the [RESTClient Firefox add-on](#) (see page 245).

 The authentication cookie is valid for 30 minutes. However, this 30-minute period restarts with every successful request.

Listing all Devices

→ Send a GET request to `/v3/thinclients` to list all devices.

→ Don't forget to tell the server your JSESSIONID:

```
curl \
--request GET\
--header 'Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC' \
https://[server]:8443/umsapi/v3/thinclients
```

Response

The response contains a large *JSON* document, listing all thin clients and their most important properties. The links make further parts of the API discoverable for a client that spiders the interface.

Look up the format for a device resource here: *IGEL Management Interface > IMI API V3 Reference*

The last thin client entry contains `"movedToBin": true`, meaning that the device has been deleted and moved to the **Recycling Bin**. Objects in the **Recycling Bin** are listed, but you cannot update them or send them commands.

```
[
{
  "unitID": "00E0C54DCB8E",
  "mac": "00E0C54DCB8E",
  "firmwareID": "21",
  "lastIP": "172.30.91.43",
  "id": "27",
  "name": "Front Desk",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tc",
  "links": [
{
```

```
"rel": "self",
"href": "https://172.30.91.227:8443/umsapi/v3/thinclients/27"
},
{
"rel": "Parent",
"href": "root"
},
{
"rel": "Firmware",
"href": "https://172.30.91.227:8443/umsapi/v3/firmwares/21"
}
]
},
{
"unitID": "DC9C5207694E",
"mac": "DC9C5207694E",
"firmwareID": "13",
"lastIP": "172.30.91.24",
"id": "6888",
"name": "UD3 M340C_Board",
"parentID": "15592",
"movedToBin": false,
"objectType": "tc",
"links": [...]
},
{
```

```
"unitID": "00E0C5080834",  
"mac": "00E0C5080834",  
"firmwareID": "2",  
"lastIP": "172.30.91.132",  
"id": "6899",  
"name": "UD10",  
"parentID": "15592",  
"movedToBin": true,  
"objectType": "tc",  
"links": [...]  
}  
]
```

Getting Information on a Device

→ Send a GET request to `/v3/thinclients/[id]` to get information about a device:

```
curl \
--request GET \
--header 'Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC' \
https://[server]:8443/umsapi/v3/thinclients/27
```

The device ID is passed to the API as a *Path Variable* in the URL.

The response contains the most important properties of the device with the ID 27:

Response

```
{
  "unitID": "00E0C54DCB8E",
  "mac": "00E0C54DCB8E",
  "firmwareID": "21",
  "lastIP": "172.30.91.43",
  "id": "27",
  "name": "Front Desk",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tc",
  "links": [
    {
      "rel": "self",
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/27"
    },
    {
```

```
"rel": "Parent",  
"href": "root"  
},  
{  
"rel": "Firmware",  
"href": "https://172.30.91.227:8443/umsapi/v3/firmwares/21"  
}  
]  
}
```

Getting All Details about a Device

→ Use the `details` facet in order to get all details about a device:

```
curl \
--request GET \
--header 'Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC' \
https://[server]:8443/umsapi/v3/thinclients/27?facets=details
```

The response contains all the properties of the device with the ID 27:

Response

```
{
  "unitID": "00E0C54DCB8E",
  "mac": "00E0C54DCB8E",
  "firmwareID": "21",
  "networkName": "D.Weinert",
  "site": "1. Stock",
  "department": "Product Management",
  "lastIP": "172.30.91.43",
  "costCenter": "",
  "comment": "",
  "assetID": "",
  "inserviceDate": "01.06.215",
  "serialNumber": "",
  "productId": "UD6-LX 51cps",
  "umsStructuralTag": "",
  "cpuSpeed": 2416,
  "cpuType": "Intel(R) Celeron(R) CPU J1900 @ 1.99GHz",
```

```
"deviceType": "IGEL H830C",  
"deviceSerialNumber": "14D3D3C03B14470B9EM",  
"osType": "IGEL Linux V5 (Kernel Version 3.13.11-ckt20)",  
"flashSize": 1883,  
"memorySize": 1853,  
"networkSpeed": 1000,  
"graphicsChipset0": "INTEL HD Graphics (Baytrail)",  
"graphicsChipset1": "",  
"monitorVendor1": "Samsung Electric Company",  
"monitorModel1": "S24C650",  
"monitorSerialnumber1": "H4MG404381",  
"monitorSize1": 24,  
"monitorNativeResolution1": "1920 x 1200",  
"monitor1YearOfManufacture": "2015",  
"monitor1WeekOfManufacture": "17",  
"monitorVendor2": "Samsung Electric Company",  
"monitorModel2": "S24C650",  
"monitorSerialnumber2": "H4MG404389",  
"monitorSize2": 24,  
"monitorNativeResolution2": "1920 x 1200",  
"monitor2YearOfManufacture": "2015",  
"monitor2WeekOfManufacture": "17",  
"biosVendor": "INSYDE Corp.",  
"biosVersion": "H830C V:3.5.13-11282014",  
"biosDate": "11/28/2014",  
"totalUsagetime": "5798368000",
```

```
"totalUptime": "18513000",
"lastBoottime": "2015-09-29 08:30",
"id": "27",
"name": "Front Desk",
"parentID": "-1",
"movedToBin": false,
"objectType": "tc",
"links": [
  {
    "rel": "self",
    "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/27"
  },
  {
    "rel": "Parent",
    "href": "root"
  },
  {
    "rel": "Firmware",
    "href": "https://172.30.91.227:8443/umsapi/v3/firmwares/21"
  }
]
}
```

Getting Device Status

→ Use the `online` facet in order to get the online status of a thin client with a specific ID:

```
curl \
--request GET \
--header 'Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC' \
https://[server]:8443/umsapi/v3/thinclients/27?facets=online
```

The response contains, among others, the `online` property, which can have the values `true` and `false`:

Response

```
{
  "unitID": "00E0C54DCB8E",
  "mac": "00E0C54DCB8E",
  "firmwareID": "21",
  "lastIP": "172.30.91.43",
  "online": false,
  "id": "27",
  "name": "Front Desk",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tc",
  "links": [
    {
      "rel": "self",
      "href": "https://172.30.91.227:8443/umsapi/v3/thinclients/27"
    }
  ],
}
```

```
{  
  "rel": "Parent",  
  "href": "root"  
},  
{  
  "rel": "Firmware",  
  "href": "https://172.30.91.227:8443/umsapi/v3/firmwares/21"  
}  
]  
}
```

Creating, Updating and Deleting Resources

The thin client directories in UMS are a good resource for trying out the creation, update and deletion API calls.

-
- [Listing all Device Directories \(see page 259\)](#)
 - [Creating a Device Directory \(see page 262\)](#)
 - [Updating a Device Directory \(see page 263\)](#)
 - [Deleting a Device Directory \(see page 264\)](#)

Listing all Device Directories

→ List all device directories:

```
curl \
--request GET \
--header 'Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC' \
https://[server]:8443/umsapi/v3/directories/tcdirectories/
```

Response

The response contains a list of device directories in *JSON* format. The ID of the root device directory is always -1. Find a detailed description of the **Device Directory** resource here: *IGEL Management Interface > IMI API V3 Reference*

→ Compare the *JSON* response to the thin client directory tree you see in your *UMS console*.



IMI provides a flat view of these directories, subdirectories can only be recognized via their `parentID`. In order to better see the nesting, use the `children` facet.

```
[
{
  "id": "15592",
  "name": "Pool",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tcdirectory",
```

```
"links": [  
  {  
    "rel": "self",  
    "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/15592"  
  },  
  {  
    "rel": "Parent",  
    "href": "root"  
  }  
]  
},  
{  
  "id": "76863",  
  "name": "New Subdirectory",  
  "parentID": "76462",  
  "movedToBin": false,  
  "objectType": "tcdirectory",  
  "links": [  
    {  
      "rel": "self",  
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/76863"  
    },  
    {  
      "rel": "Parent",  
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/76462"  
    }  
  ]  
}
```

```
]
},
{
  "id": "76462",
  "name": "New Directory",
  "parentID": "-1",
  "movedToBin": false,
  "objectType": "tcdirectory",
  "links": [
    {
      "rel": "self",
      "href": "https://172.30.91.227:8443/umsapi/v3/directories/tcdirectories/76462"
    },
    {
      "rel": "Parent",
      "href": "root"
    }
  ]
}
]
```

Creating a Device Directory

→ Send an HTTP PUT request to the resource `/v3/directories/tcdirectories` to create a new thin client directory.

This request must contain *JSON* data in its body specifying a name for the new directory. The `parentID` is optional and defaults to the root thin client directory:

```
{  
  "name": "My Directory",  
  "parentID": "-1"  
}
```

cURL accepts *JSON* data as the `--data` parameter. This request also specifies `Content-type` header to tell *IMI* that the data has the type `application/json`.

→ Use it whenever you send *JSON* data:

```
curl \  
--request PUT \  
--header 'Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC' \  
--header "Content-type: application/json" \  
--data '{"name": "My Directory", "parentID": "-1"}' \  
https://[server]:8443/umsapi/v3/directories/tcdirectories
```

Response

IMI replies with a success message and data about the newly created directory:

```
{  
  "message": "Directory successfully inserted.",  
  "id": "77118",  
  "name": "My Directory",  
  "parentID": "-1"  
}
```

Updating a Device Directory

→ Send an HTTP PUT request to `/v3/directories/tcdirectories/[id]` to update the properties of a device directory. The directory ID is passed as a variable in the URL, a new directory name as *JSON* data in the request body. Do not forget the `Content-type` header.

```
curl \
--request PUT \
--header 'Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC' \
--header "Content-type: application/json" \
--data '{"name":"My Wonderful Directory"}' \
https://[server]:8443/umsapi/v3/directories/tcdirectories/77118
```

Response

→ *IMI* replies with a success message:

```
200 OK
---
{
  "message": "Updated directory successfully."
}
```

Deleting a Device Directory

→ Send an HTTP DELETE request to `/v3/directories/tcdirectories/[id]` to delete a device directory. The ID of the directory is passed as a path variable in the URL.

```
curl \
--request DELETE \
--header 'Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC' \
https://[server]:8443/umsapi/v3/directories/tcdirectories/77118
```

Response

→ *IMI* replies with a brief success message:

Code Example:

```
<code> 200 OK</code>
```

Code Example:

```
<code>---</code>
```

Code Example:

```
<code> {"message":"Deletion successful."} </code>
```

A device directory has to be empty to be removed. If you try to delete a non-empty directory, *IMI* will respond with an error message:

```
400 Bad Request
```

```
---
```

```
{
```

```
"message": "Directory with ID <77118> is not empty. Remove content first.",
```

```
"errorCode": "ITG-0A006",
```

```
"time": "2016-04-06T13:29:59.362",
```

```
"stackTrace": "[de.igel.rm.umsapi.server.services.thinclientdirectory.
```

```
[...]
```



Learn more about error codes and messages here [IGEL Management Interface > IMI API V3 Reference](#)

Further Operations

- [Moving a Device Directory](#) (see page 267)
- [Sending a Command to Devices](#) (see page 268)
- [Debugging Requests](#) (see page 270)

Moving a Device Directory

→ In order to move devices or directories send a PUT request to the target directory and append `?operation=move`. The request body must contain a list of API Objects in *JSON* format, representing the devices and directories to be moved. An API Object has an ID and a type.

```
curl \
--request PUT \
--header 'Cookie: JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC' \
--header "Content-type: application/json" \
--data '[ { "id":"77123", "type":"tcdirectory"},\
{ "id":"1234", "type":"tcdirectory" } ]' \
https://[server]:8443/umsapi/v3/directories/tcdirectories/15592?operation=move
```

Response

The following response contains an error message for one directory and a success message for the other:

```
200 OK
---
[
{
  "id": "1234",
  "results": "does_not_exist"
},
{
  "id": "77123",
  "results": "successful"
}
]
```

Sending a Command to Devices

→ Send a POST request to `/v3/thinclients?command=[command]` to send a command to one or more devices. A command can be one of the following:

- `reboot`
- `shutdown`
- `wakeup`
- `settings2tc`
- `tcreset2facdefs`

The request body contains a list of API Objects representing the devices addressed.

To send the `reboot` command to two devices, send the following request to *IMI*:

```
curl \
--request POST \
JSESSIONID=3FB2F3F6A089FE9029DFD6DAFEF146DC' \
--header "Content-type: application/json" \
--data '[{"id":"27", "type":"tc"}, {"id":"72014", "type":"tc"}]' \
https://[server]:8443/umsapi/v3/thinclients?command=reboot
```

Request

IMI replies with a *JSON* document containing a result for each device addressed:

```
{
  "CommandExecList": [
    {
      "execID": "ID-PM-MH-WIN7-UMS-54530-1456839861871-5-0",
      "id": "72014",
      "mac": "00E0C561EEED",
```

```
"exectime": "1456845240566",  
"message": "OK",  
"state": "SUCCESS"  
},  
{  
"execID": "ID-PM-MH-WIN7-UMS-54530-1456839861871-5-0",  
"id": "27",  
"mac": "00E0C54DCB8E",  
"exectime": "1456845240560",  
"message": "OK",  
"state": "SUCCESS"  
}  
]  
}
```

Debugging Requests

Error Codes


To debug errors when communicating with IMI, observe

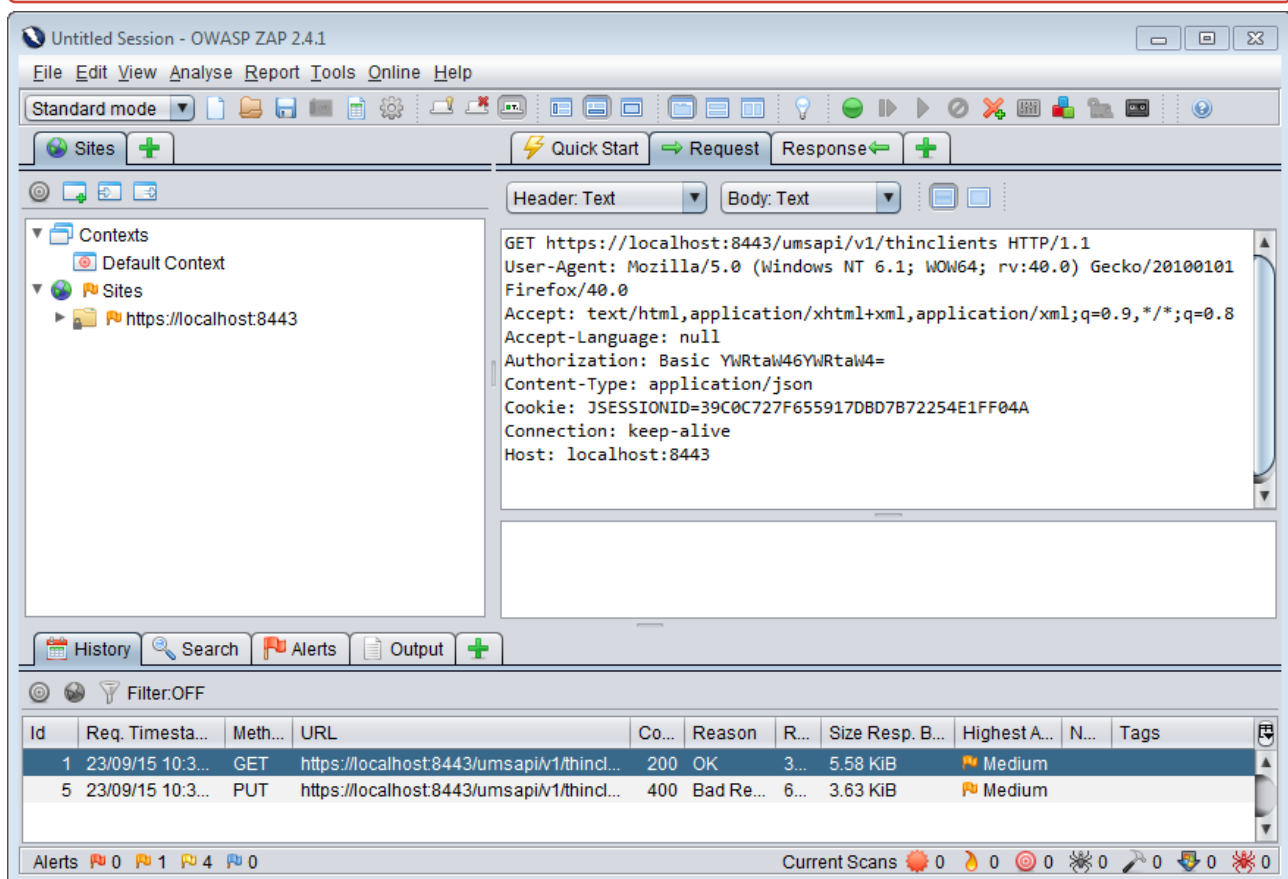
- the HTTP status in the response headers
- the messages and error codes in the response bodies.

HTTP-Proxy

You may use an HTTP proxy in order to see what requests your scripts or programs produce. A proxy acts as a man-in-the-middle between device and IMI, letting you view and optionally edit requests.

An Open Source program for this task is [OWASP ZAP](https://www.owasp.org/index.php/OWASP_Zed_Attack_Proxy_Project)⁹.

 Use a proxy only for debugging your own HTTP requests. Viewing other users' network traffic is usually illegal.



The screenshot shows the OWASP ZAP 2.4.1 interface. The main window displays a request and response for a GET request to `https://localhost:8443/umsapi/v1/thinclients`. The request headers are visible, including `User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:40.0) Gecko/20100101 Firefox/40.0` and `Authorization: Basic YWRtaW46YWRtaW4=`. The response status is 200 OK.

Id	Req. Timesta...	Meth...	URL	Co...	Reason	R...	Size Resp. B...	Highest A...	N...	Tags
1	23/09/15 10:3...	GET	https://localhost:8443/umsapi/v1/thincl...	200	OK	3...	5.58 KIB	Medium		
5	23/09/15 10:3...	PUT	https://localhost:8443/umsapi/v1/thincl...	400	Bad Re...	6...	3.63 KIB	Medium		


9. https://www.owasp.org/index.php/OWASP_Zed_Attack_Proxy_Project

Powershell

- [Introduction](#) (see page 272)
- [Command Reference](#) (see page 276)

Introduction

IMI Cmdlets is a collection of Windows PowerShell commandlets for use with the *IGEL Management Interface (IMI)*. The commandlets are installed as binary `*.dll` files and can be used in *PowerShell* scripts. They simplify frequent actions such as rebooting a thin client or assigning a profile via *IMI*, hiding the implementation details of the underlying REST API.


 Microsoft .NET version 4.5 or greater is required for IMI Cmdlets 1.04.100 for TLSv1.2

-
- [Installation](#) (see page 273)
 - [Loading the IMI Cmdlets Snap-in](#) (see page 274)
 - [Authentication](#) (see page 275)

Installation

Prerequisites

- One of the following *Microsoft* operating systems:
 - *Windows 7*
 - *Windows Server 2008 or 2008 R2*
 - *Windows 8 or higher*
 - *Windows Server 2012 or 2012 R2*
- *Windows Management Framework 4* (which already includes *PowerShell 4*)
- *Microsoft .Net Framework 4* or newer

 IGEL Management Interface (IMI) PowerShell Cmdlets 1.03.100 or lower do not support UMS 5.08.100 or higher. UMS 5.08.100 or higher uses TLS 1.2, which is supported as of PowerShell Cmdlets 1.04.100 only.

Installing

1. Download the *IMI* Commandlets Installer from the [download server](#)¹⁰.
2. Launch the installer.

 You need administration privileges in order to install IMI Commandlets.

3. Close all other applications and confirm that you have done so.
4. Review and accept the **License Agreement**.
5. Select the destination location for the installation or leave the default.
6. Optional: Select a Start Menu folder for the program shortcuts.
7. Read the summary and start the installation process.

The installer will install the IMI Commandlets and some sample scripts. The following shortcuts will be placed on the desktop:

- **Starter-Interface:** A simple interactive terminal interface to *IMI*, suitable for new users
- **IGEL-Shell:** A *Windows* PowerShell session with *IMI* Commandlets already loaded

Additionally, the *IMI* Commandlets Readme file is displayed.

10. <https://www.igel.com/software-downloads/>



Loading the IMI Cmdlets Snap-in

Before you can use IMI Cmdlets, you need to add the snap-in to your PowerShell session:

```
Add-PSSnapin *igel*
```

View all loaded IGEL Cmdlets:

```
Get-PSSnapin *igel*
```

Authentication

IMI uses HTTP Basic Authentication with a username-password combination. IMI Cmdlets wrap authentication in the **Get-IgelRMServerLogin** cmdlet.

Get-IgelRMServerLogin logs in to IMI.

Parameters

- **-Servername**
Hostname of the of the UMS server with IMI
- **-Username**
UMS user name
- **-ForceIMIVersion**
Use a specific IMI version, `v1` or `v2`.
- **-IgnoreUntrustedCertificates**
If this is set to `$true` the Cmdlets will ignore errors in TLS/SSL certificate validation.

The password is entered interactively.

Example Command Line

Log in and save the credentials for the session in `$l` :

```
$l = Get-IgelRMServerLogin `
  -Servername localhost `
  -Username SPIELWIESE `
  -IgnoreUntrustedCertificates $true `
  -ForceIMIVersion v2
```

Supply the credentials to subsequent commands using

```
-Credentials $l
```

Command Reference

- [Device](#) (see page 277)
- [Profile](#) (see page 285)
- [Priority / Master Profile](#) (see page 292)
- [Device Directory](#) (see page 299)
- [Profile Directory](#) (see page 307)
- [Priority / Master Profile Directory](#) (see page 313)
- [Firmware](#) (see page 319)

Device

- [Get-IgelTCInformation](#) (see page 278)
- [Start-IGELDevices](#) (see page 280)
- [Stop-IGELDevice](#) (see page 281)
- [Restart-IgelTCs](#) (see page 282)
- [Move-IGELDevices](#) (see page 283)
- [Update-IGELDeviceSettings](#) (see page 284)

Get-IgelTCInformation

Summary

Gets information on devices.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login.
- **-tcID**
Numeric ID of the thin client. If omitted, information is retrieved on all thin clients, including those in the Recycling Bin.
- **-Details**
Level of detail in the output, one of:
 - **full** Gets all data available from IMI, including the online status.
 - **inventory** Gets all data available from IMI, apart from the online status.
 - **online** Gets data in a short format, including the online status.

If this parameter is omitted, only a short information format with the most important device properties is returned.

Example Command Line

```
Get-IgelTCInformation -Credentials $l
```

Example Output

```
mac : 000BCA050027
```

```
firmwareID : 45
```

```
lastIP : 172.30.91.237
```

```
id : 48335
```

```
name : UD2-D220
```

```
parentID : 76863
```

```
movedToBin : True
```

```
objectType : tc
```

```
mac : 005056934FDB
```

```
firmwareID : 28
```

```
lastIP : 172.30.91.9
```

```
id : 48366
```

```
name : westestx86
```

```
parentID : -1
```

```
movedToBin : False
```

```
objectType : tc
```

```
mac : 00E0C561EEED
```

```
firmwareID : 43
```

```
lastIP : 172.30.91.30
```

```
id : 72014
```

```
name : IGEL-8KJ2GQPL3N
```

```
parentID : 76863
```

```
movedToBin : False
```

```
objectType : tc
```

Start-IGELDevices

Summary

Wakes up devices.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-tcID / -tcIDs**
Numeric IDs of the devices to wake up

Example Command Line

```
Start-IgelTCs -Credentials $l -tcIDs 27
```

Example Output

```
execID exectime message state
```

```
-----
```

```
ID-PM-MH-WIN7-UMS-49242-14... 1460647127627 OK SUCCESS
```

Stop-IGELDevice

Summary

Shuts down devices.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-tcID / -tcIDs**
Numeric IDs of the thin clients to shut down

Example Command Line

```
Stop-IgelTCs -Credentials $l -tcID 2010
```

Example Output

```
execID exectime message state
```

```
-----
```

```
ID-mhuber-50400-14605614057... 1460706641670 OK SUCCESS
```

Restart-IgelTCs

Summary

Reboots tdevices.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-tcIDs**
Numeric IDs of the devices to reboot

Example Command Line

```
Restart-IgelTCs -Credentials $l -tcIDs 2010,1435
```

Example Output

```
execID exectime message state
```

```
-----
```

```
ID-mhuber-50400-14605614057... 1460991770313 OK SUCCESS
```

```
ID-mhuber-50400-14605614057... 1460991770313 OK SUCCESS
```

Move-IGELDevices

Summary

Moves a device to a device directory.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-tcIDs**
Numeric ID of the device
- **-DirectoryID**
Numeric ID of the target device directory

Example Command Line

```
Move-IgelTCs `
-Credentials $l `
-TCIDs 2010 `
-DirectoryID 3147
```

Example Output

```
id results
--
2010 successful
```

Update-IGELDeviceSettings

Summary

Sends settings from UMS to the device.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-tcID**
Numeric ID of the device

Example Command Line

```
Update-IgelTCSettings -Credentials $l -tcID 2010
```

Example Output

```
execID : ID-mhuber-50400-1460561405782-16-0
```

```
id : 2010
```

```
mac : 000BCA050027
```

```
exectime : 1460708102541
```

```
message : OK
```

```
state : SUCCESS
```

Profile

- [Get-IGELDeviceProfile](#) (see page 286)
- [Rename-IGELDeviceProfile](#) (see page 287)
- [Get-IGELProfileAssignments](#) (see page 288)
- [Set-IGELProfileAssignment](#) (see page 289)
- [Remove-IGELProfileAssignment](#) (see page 290)
- [Remove-IGELDeviceProfile](#) (see page 291)

Get-IGELDeviceProfile

Summary

Gets information about profiles.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-ProfileID**
Numeric ID of the profile. If this is omitted, information is retrieved for all profiles

Example Command Line

```
Get-IGELTCProfile -Credentials $l -ProfileID 3150
```

Example Output

```
firmwareID : 3  
isMasterProfile : False  
overridesSessions : False  
id : 3150  
name : My Profile  
parentID : -2  
movedToBin : False  
objectType : profile
```

Rename-IGELDeviceProfile

Summary

Renames a profile.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-ProfileID**
Numeric ID of the profile
- **-newProfileName**
New profile name as string

Example Command Line

```
Rename-IgelTCProfile `
-Credentials $l `
-ProfileID 3150 `
-newProfileName "Updated Profile"
```

Example Output

```
message
-----
Update successful
```

Get-IGELProfileAssignments

Summary

Gets profile assignments.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-ProfileID**
Numeric ID of the profile
- **-ObjectType**
Get assignments to a specific object type, one of:
 - **tc** thin client
 - **directory** device directory

Example Command Line

```
Get-IgelProfileAssignments `
-Credentials $l `
-ProfileID 3150 `
-ObjectType tc
```

Example Output

```
type id assignmentPosition
---- -- -----
tc 2010 0
```

Set-IGELProfileAssignment

Summary

Creates a profile assignment or priority profile assignment (called "master profile" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-ProfileID**
Numeric ID of the profile or priority profile
- **-ProfileType**
Profile type, one of:
 - **profile** profile
 - **masterprofile** priority profile
- **-TargetID**
Numeric ID of the target object which the profile or priority profile will be assigned to
- **-TargetType**
Assignments to a specific object type, one of:
 - **tc** device
 - **tcdirectory** device directory

Example Command Line

```
Set-IgelProfileAssignment `
-Credentials $l `
-ProfileID 3150 `
-ProfileType profile `
-TargetID 2010 `
-TargetType tc
```

Example Output

```
message
-----
1 assignments successfully assigned
```

Remove-IGELProfileAssignment

Summary

Deletes a profile assignment or priority profile assignment (called "master profile" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-ProfileID**
Numeric ID of the profile or priority profile
- **-ProfileType**
Profile type, one of:
 - **profile** profile
 - **masterprofile** priority profile
- **-TargetID**
Numeric ID of the target object which the profile or priority profile is assigned to
- **-TargetType**
Assignments to a specific object type, one of:
 - **tc** device
 - **tcdirectory** device directory

Example Command Line

```
Remove-IgelProfileAssignment `
-Credentials $l `
-ProfileID 3151 `
-ProfileType profile `
-TargetType tcdirectory `
-TargetID 3201
```


Example Output

```
message
-----
deleted profile assignment
```

Remove-IGELDeviceProfile

Summary

Deletes a profile.

 This does not move the profile to the Recycling Bin, but simply deletes it.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-ProfileID**
Numeric ID of the profile

Example Command Line

```
Remove-IgelProfile -Credentials $l -ProfileID 3150
```

Example Output

```
message
```

```
-----
```

```
Deleted profile with id 3150
```

Priority / Master Profile

As of UMS 12, master profiles are called "priority profiles".

- [Get-IGELDeviceMasterprofile](#) (see page 293)
- [Rename-IGELDeviceMasterprofile](#) (see page 294)
- [Get-IGELMasterprofileAssignments](#) (see page 295)
- [Set-IgelProfileAssignment](#) (see page 296)
- [Remove-IgelProfileAssignment](#) (see page 297)
- [Remove-IgelMasterprofile](#) (see page 298)

Get-IGELDeviceMasterprofile

Summary

Gets information about priority profiles (called "master profiles" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-MasterprofileID**
Numeric ID of the priority profile. If this is omitted, information is retrieved for all priority profiles

Example Command Line

```
Get-IGELTCMasterprofile -Credentials $l -MasterprofileID 3152
```

Example Output

```
firmwareID : 3
isMasterProfile : True
overridesSessions : False
id : 3152
name : My Master Profile
parentID : -14
movedToBin : False
objectType : masterprofile
```

Rename-IGELDeviceMasterprofile

Summary

Renames a priority profile (called "master profile" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-MasterprofileID**
Numeric ID of the priority profile
- **-newMasterProfileName**
New priority profile name as string

Example Command Line

```
Rename-IgelTCMasterprofile `
-Credentials $l `
-MasterprofileID 3152 `
-newMasterProfileName "Renamed Master Profile"
```

Example Output

```
message
-----
Update successful
```

Get-IGELMasterprofileAssignments

Summary

Gets priority profile assignments (called "master profiles" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-MasterprofileID**
Numeric ID of the priority profile
- **-ObjectType**
Get assignments to a specific object type, one of:
 - **tc** device
 - **tcdirectory** device directory

Example Command Line

```
Get-IgelMasterprofileAssignments `
-Credentials $l `
-MasterprofileID 3152 `
-ObjectType tc
```

Example Output

```
type id assignmentPosition
---- -- -
tc 2010 0
```

Set-IgelProfileAssignment

Summary

Creates a profile assignment or priority profile assignment (called "master profile" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-ProfileID**
Numeric ID of the profile or priority profile
- **-ProfileType**
Profile type, one of:
 - **profile** profile
 - **masterprofile** priority profile
- **-TargetID**
Numeric ID of the target object which the profile or priority profile will be assigned to
- **-TargetType**
Assignments to a specific object type, one of:
 - **tc** device
 - **tcdirectory** device directory

Example Command Line

```
Set-IgelProfileAssignment `
-Credentials $l `
-ProfileID 3150 `
-ProfileType profile `
-TargetID 2010 `
-TargetType tc
```

Example Output

```
message
-----
1 assignments successfully assigned
```

Remove-IgelProfileAssignment

Summary

Deletes a profile assignment or priority profile assignment (called "master profile" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-ProfileID**
Numeric ID of the profile or priority profile
- **-ProfileType**
Profile type, one of:
 - **profile** profile
 - **masterprofile** priority profile
- **-TargetID**
Numeric ID of the target object which the profile or priority profile is assigned to
- **-TargetType**
Assignments to a specific object type, one of:
 - **tc** device
 - **tcdirectory** device directory

Example Command Line

```
Remove-IgelProfileAssignment `
-Credentials $l `
-ProfileID 3151 `
-ProfileType profile `
-TargetType tcdirectory `
-TargetID 3201
```

Example Output

```
message
-----
deleted profile assignment
```

Remove-IgelMasterprofile

Summary

Deletes a priority profile (called "master profile" before UMS 12).

 This does not move the priority profile to the Recycling Bin, but simply deletes it.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-MasterprofileID**
Numeric ID of the priority profile

Example Command Line

```
Remove-IgelMasterprofile -Credentials $l -MasterprofileID 3152
```

Example Output

```
message
```

```
-----
```

```
Deleted profile with id 3152
```

Device Directory

- [Get-IGELDeviceDirectories](#) (see page 300)
- [Rename-IGELDeviceDirectory](#) (see page 302)
- [Set-IGELDeviceDirectory](#) (see page 303)
- [Move-IGELDeviceDirectory](#) (see page 304)
- [Set-IgelProfileAssignment](#) (see page 305)
- [Remove-IGELDeviceDirectory](#) (see page 306)

Get-IGELDeviceDirectories

Summary

Gets information on device directories.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-DirectoryID**
Numeric ID of the thin client directory. If omitted, information is retrieved on all device directories, including those in the Recycling Bin
- **-details**
Amount of detail in the output:
 - **\$true** The IDs of `DirectoryChildren` will be shown, which can be device or device directories.

Example Command Line

```
Get-IgелTCDirectories -Credentials $l -details $true
```

Example Output

```
id : 3201  
name : B Directory  
parentID : -1  
movedToBin : False  
objectType : tcdirectory  
DirectoryChildren : {3202, 1435}
```

```
id : 3202  
name : Subdirectory  
parentID : 3201  
movedToBin : False  
objectType : tcdirectory
```

```
DirectoryChildren : {}
```

```
id : 3147
```

```
name : A Directory
```

```
parentID : -1
```

```
movedToBin : False
```

```
objectType : tcdirectory
```

```
DirectoryChildren : {2010}
```

Rename-IGELDeviceDirectory

Summary

Renames a device directory.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryID**
Numeric ID of the device directory
- **-newDirectoryName**
New thin client directory name as string

Example Command Line

```
Rename-IgelTCDirectory `
-Credentials $l `
-directoryID 3206 `
-newDirectoryName "Renamed TC Directory"
```

Example Output

```
message
-----
Updated directory successfully.
```

Set-IGELDeviceDirectory

Summary

Creates a new device directory.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryName**
Name for the device directory
- **-directoryPosition**
Parent directory for the new device directory. If omitted, it defaults to `-1`, which is the UMS directory **Devices**.

Example Command Line

```
Set-IgelTCDirectory `
-Credentials $l `
-directoryName "Brand New Directory" `
-directoryPosition 3201
```

Example Output

```
message id name parentID
----- -- ----
Directory successfully inse... 3206 Brand New Directory 3201
```

Move-IGELDeviceDirectory

Summary

Moves one or more device directories.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryIDs**
Numerical IDs of the device directories to be moved
- **-targetDirectory**
The target directory to move the device directories into

Example Command Line

```
Move-IgelTCDirectory `
-Credentials $l `
-directoryIDs 3206 `
-targetDirectory
```

Example Output

```
id results
--
3206 successful
```

Set-IgelProfileAssignment

Summary

Creates a profile assignment or priority profile assignment (called "master profile" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-ProfileID**
Numeric ID of the profile or priority profile
- **-ProfileType**
Profile type, one of:
 - **profile** profile
 - **masterprofile** priority profile
- **-TargetID**
Numeric ID of the target object which the profile or priority profile will be assigned to
- **-TargetType**
Assignments to a specific object type, one of:
 - **tc** device
 - **tcdirectory** device directory

Example Command Line

```
Set-IgelProfileAssignment `
-Credentials $l `
-ProfileID 3150 `
-ProfileType profile `
-TargetID 2010 `
-TargetType tc
```


Example Output

```
message
-----
1 assignments successfully assigned
```

Remove-IGELDeviceDirectory

Summary

Deletes a device directory.

 You can only delete empty device directories.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryID**
Numerical ID of the device directory to be deleted

Example Command Line

```
Remove-IgelTCDirectory -Credentials $l -directoryID 3202
```

Example Output

```
message
```

```
-----
```

```
Deletion successful.
```

Profile Directory

- [Get-IGELProfileDirectory](#) (see page 308)
- [Rename-IGELDeviceProfileDirectory](#) (see page 309)
- [Move-IGELDeviceProfileDirectory](#) (see page 310)
- [Set-IGELProfileDirectory](#) (see page 311)
- [Remove-IgelProfileDirectory](#) (see page 312)

Get-IGELProfileDirectory

Summary

Gets information on profile directories.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-DirectoryID**
Numeric ID of the profile directory. If omitted, information is retrieved on all profile directories, including those in the Recycling Bin.

Example Command Line

```
Get-IgelProfileDirectory -Credentials $l -ProfileDirectoryID 3221
```

Example Output

```
id : 3221
```

```
name : Profiles 2
```

```
parentID : -2
```

```
movedToBin : False
```

```
objectType : profiledirectory
```

Rename-IGELDeviceProfileDirectory

Summary

Renames a profile directory.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryID**
Numeric ID of the profile directory
- **-newDirectoryName**
New profile directory name as string

Example Command Line

```
Rename-IGELTCProfileDirectory `
-Credentials $l `
-directoryID 3220 `
-newDirectoryName "My Renamed Directory"
```

Example Output

```
message
-----
Updated directory successfully.
```

Move-IGELDeviceProfileDirectory

Summary

Moves one or more profile directories.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryIDs**
Numerical IDs of the profile directories to be moved
- **-targetDirectory**
The target directory to move the profiles directories into

Example Command Line

```
Move-IgelProfileDirectory `
-Credentials $l `
-directoryIDs 4024 `
-targetDirectory 3220
```

Example Output

```
id results
--
4024 successful
```

Set-IGELProfileDirectory

Summary

Creates a new profile directory.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryName**
Name for the profile directory
- **-directoryPosition**
Parent directory for the new profile directory. If omitted, it defaults to `-2`, which is the UMS directory **Profiles**.

Example Command Line

```
Set-IgelProfileDirectory `
-Credentials $l `
-directoryName "A New Directory" `
-directoryPosition -2
```

Example Output

```
message id name parentID
----- -- ----
Directory successfully inse... 4030 A New Directory -2
```

Remove-IgelProfileDirectory

Summary

Deletes a profile directory.

 You can only delete empty thin client directories.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryID**
Numerical ID of the profile directory to be deleted

Example Command Line

```
Remove-IgelProfileDirectory -Credentials $l -ProfileDirectoryID 4024
```

Example Output

```
message
```

```
-----
```

```
Deletion successful.
```

Priority / Master Profile Directory

As of UMS 12, master profiles are called "priority profiles".

- [Get-IGELMasterprofileDirectory](#) (see page 314)
- [Rename-IGELDeviceMasterprofileDirectory](#) (see page 315)
- [Move-IgelMasterprofileDirectory](#) (see page 316)
- [Set-IgelMasterprofileDirectory](#) (see page 317)
- [Remove-IgelMasterprofileDirectory](#) (see page 318)

Get-IGELMasterprofileDirectory

Summary

Gets information on priority profile directories (called "master profiles" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-DirectoryID**
Numeric ID of the priority profile directory. If omitted, information is retrieved on all priority profile directories, including those in the Recycling Bin

Example Command Line

```
Get-IgelMasterprofileDirectory -Credentials $l -MasterprofileDirectoryID 4034
```

Example Output

```
id : 4034
```

```
name : New Master Profiles
```

```
parentID : -14
```

```
movedToBin : False
```

```
objectType : masterprofiledirectory
```

Rename-IGELDeviceMasterprofileDirectory

Summary

Renames a priority profile directory (called "master profiles" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryID**
Numeric ID of the priority profile directory
- **-newDirectoryName**
New priority profile directory name as string

Example Command Line

```
Rename-IGELTCMasterProfileDirectory `
-Credentials $l `
-directoryID 4038 `
-newDirectoryName "Renamed Master Profiles"
```

Example Output

```
message
-----
Updated directory successfully.
```

Move-IgelMasterprofileDirectory

Summary

Moves one or more priority profile directories (called "master profiles" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryIDs**
Numerical IDs of the priority profile directories to be moved
- **-targetDirectory**
The target directory to move the priority profiles directories into

Example Command Line

```
Move-IgelMasterprofileDirectory `
-Credentials $l `
-directoryIDs 4033 `
-targetDirectory 4034
```

Example Output

```
id results
--
4033 successful
```

Set-IgelMasterprofileDirectory

Summary

Creates a new priority profile directory (called "master profiles" before UMS 12).

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryName**
Name for the priority profile directory
- **-directoryPosition**
Parent directory for the new priority profile directory. If omitted, it defaults to `-14`, which is the UMS directory **Priority Profiles (Master Profiles)** before UMS 12).

Example Command Line

```
Set-IgelMasterprofileDirectory -Credentials $l -directoryName "Brand New  
Directory"
```

Example Output

```
message id name parentID  
----- -- ----  
Directory successfully inse... 4038 Brand New Directory -14
```

Remove-IgelMasterprofileDirectory

Summary

Deletes a priority profile directory (called "master profiles" before UMS 12).

 You can only delete empty directories.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-directoryID**
Numerical ID of the priority profile directory to be deleted

Example Command Line

```
Remove-IgelMasterprofileDirectory -Credentials $l -MasterprofileDirectoryID  
403 3
```

Example Output

```
message
```

```
-----
```

```
Deletion successful.
```

Powershell



Firmware

- [Get-IgelFirmware](#) (see page 320)

Get-IgelFirmware

Summary

Gets information on the firmwares registered with UMS.

Parameters

- **-Credentials**
Credential data, usually passed via a variable which it has been saved to at login
- **-firmwareID**
Numeric ID of the firmware. If omitted, information is retrieved on all firmwares.

Example Command Line

```
Get-IgelFirmware -Credentials $l -firmwareID 3
```

Example Output

```
id product version firmwareType
--
3 IGEL Universal Desktop LX 5.09.100.01 LX
```