IGEL Management Interface Home

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IGEL Management Interface (IMI)

IMI API V3 Reference

What's New in IMI?

Details added on registration and user login history:

- GET /v3/thinclients?facets=loginhistory (see page 112)
- TCResourceV3 (see page 19)
- GET /v3/thinclients?facets=details (see page 52)

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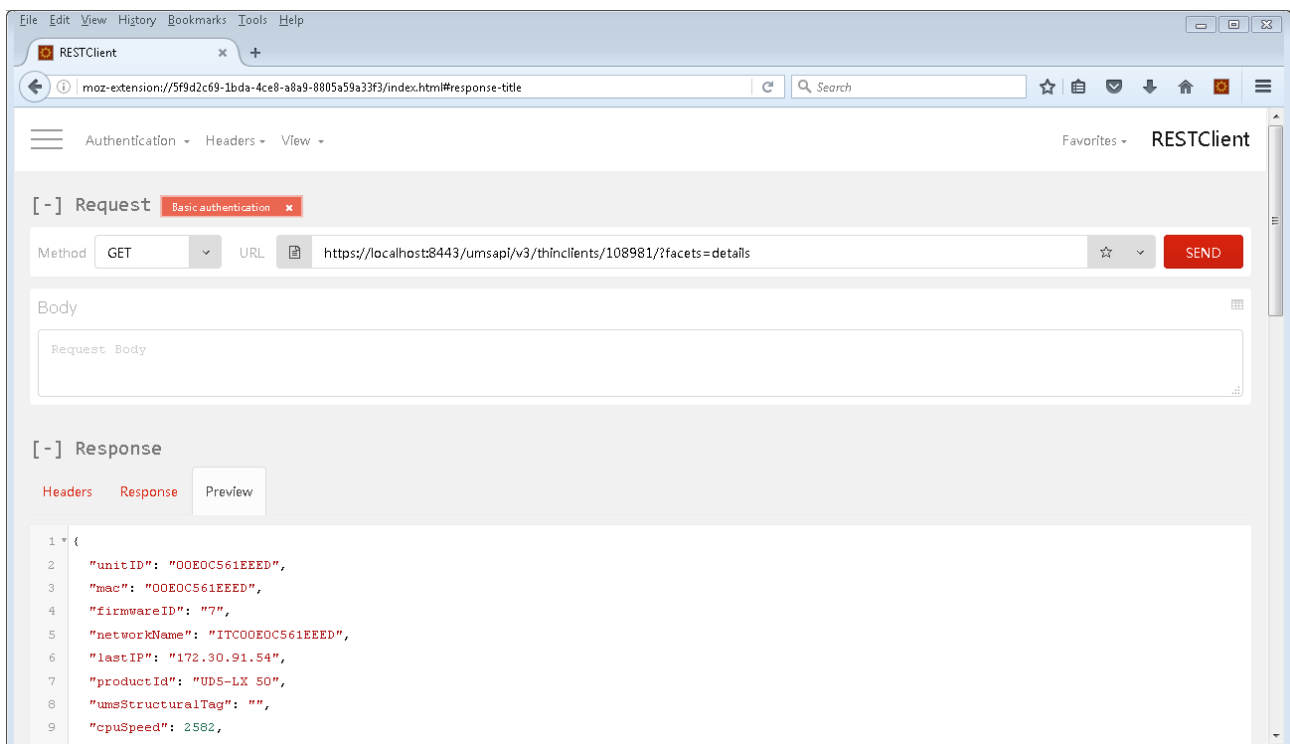
```
https://[server]:8443/umsapi/v3/
```

> ℹ️ 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
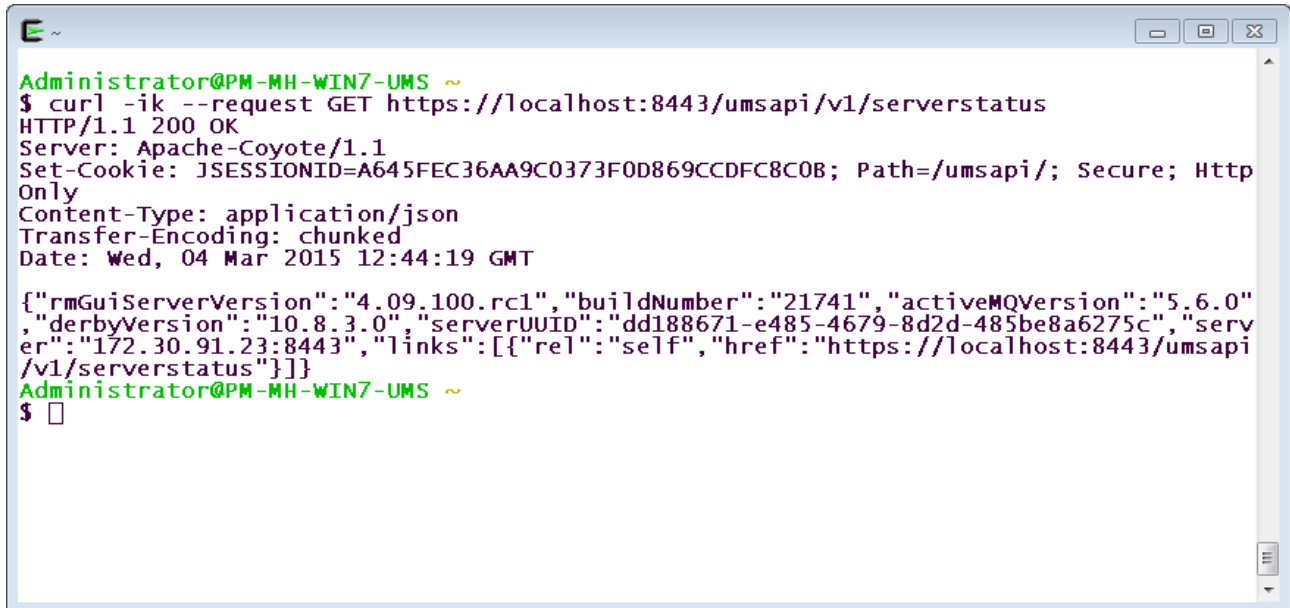
- with RESTClient[1], an add-on for Mozilla Firefox:

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","serv
er":"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
- POST /v3/logout

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

Summary

This object is the most basic representation of thin clients, profiles, and directories. It is used in Assignments .

Properties

Name	Type	Mandatory	Description
id	String	yes	The object's ID in the UMS database
type	String	yes	One of: • 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 17)	Categories the asset belongs to
detailList	Array of AssetDetailResource (see page 16)	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: • 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	`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	`swp` - `shared workplace` `kerberos` - `kerberos` `citrix` - `citrix` `unknown` - `unknown logontype`

Assignment

Summary

An Assignment links ApiObjects (see page 13), e.g. profiles to thin clients, or profiles to thin client directories.

Properties

Name	Type	Mandatory	Description
assignee	ApiObject (see page 13)	yes	The ApiObject (see page 13) that is assigned
receiver	ApiObject (see page 13)	yes	The ApiObject (see page 13) 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	IDos parent directory
movedToBin	Boolean	no	True if in Recycling Bin
objectType		no	One of: • 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

IGEL

Resources

- Asset Information (see page 28)
- Device (see page 49)
- Profile (see page 113)
- Priority / Master Profile (see page 132)
- Profile Directory (see page 151)
- Priority / Master Profile Directory (see page 172)
- Firmware Information (see page 190)
- Template Keys (see page 194)
- Device Directory (see page 205)

Asset Information

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 14).

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 14).

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 14).

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 18).

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 18).

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 .

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 50)
- GET /v3/thinclients?facets=details (see page 52)
- GET /v3/thinclients?facets=online (see page 57)
- GET /v3/thinclients?facets=shadow (see page 59)
- GET /v3/thinclients?facets=networkadapters (see page 63)
- GET /v3/thinclients?facets=deviceattributes (see page 64)
- GET /v3/thinclients/{tcId} (see page 66)
- GET /v3/thinclients/{tcId}?facets=details (see page 68)
- GET /v3/thinclients/{tcId}?facets=online (see page 71)
- GET /v3/thinclients/{tcId}?facets=shadow (see page 73)
- GET /v3/thinclients/{tcId}?facets=networkadapters (see page 76)
- GET /v3/thinclients/{tcId}?facets=deviceattributes (see page 77)
- GET /v3/thinclients/{tcId}/assignments/profiles (see page 79)
- GET /v3/thinclientview/{viewId} (see page 82)
- GET /v3/thinclientview/{viewId}?facets=details (see page 84)
- GET /v3/thinclientview/{viewId}?facets=online (see page 89)
- GET /v3/thinclientview/{viewId}?facets=shadow (see page 91)
- GET /v3/thinclientview/{viewId}?facets=networkadapters (see page 95)
- PUT /v3/thinclients/{tcId}/assignments/profiles (see page 96)
- PUT /v3/thinclients (see page 98)
- PUT /v3/thinclients/{tcId} (see page 101)
- DELETE /v3/thinclients/{tcId} (see page 104)
- DELETE /v3/thinclients/{tcId}/deletetcoffline (see page 106)
- POST /v3/thinclients/?command={reboot|shutdown|wakeup} (see page 107)
- POST /v3/thinclients?command=settings2tc (see page 109)
- POST /v3/thinclients/?command=tcreset2facdefs (see page 111)
- GET /v3/thinclients?facets=loginhistory (see page 112)

IGEL

GET /v3/thinclients

Summary

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

> ⓘ 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 .

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.

> ℹ️ 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 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 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": []

}

]
```

IGEL

GET /v3/thinclients?facets=shadow

Summary

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

> ℹ️ 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 235).

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 19) 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-----
```

MIIE1jCCAr6gAwIBAgIEBCOa4zANBgkqhkiG9w0BAQ0FADAtMQswCQYDVQQGEwJE

RTEPMA0GA1UEBxMGQnJlbWVuMQ0wCwYDVQQKEwRJR0VMMB4XDTE0MDEwMTAwMDAw

MVoXDTM3MDEwMTAwMDAwMVowLTELMAkGA1UEBhMCREUxDzANBgNVBAcTBkJyZW1l

bjENMAsGA1UEChMESUdFTDCCAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgoCggIB

AJw6kiftBFhAnFXGfzMnuhiSYm9QrGFGvryvNpPzEK8f8Svcp62R+jv3bhtlFJcW

QGf4xn4xRoQUzj48m5Y1Sg12oY/YBNt5xLxKLTeq0HGurpYVan40zoT0FRG+ygpX

WUh0MvPfFYscokWo/7Id5EycfBefVwvx6ZO9zOb112J8qgmo5/aenWJph70dJbKW

sH2ojXzjU6tkrMVv80V+68TNOc5I8V2wIzlgeqNnpKCZLkSbRjzhd6FMoY0RdqqC

MLuMAluDoKuj5Z29tGNX1YYnIt7w+DmB18g8hYWbLztLhMqX6pNBfEgi3VLqjUOS

iIFmfzGT9ZpuCNMfvpXzCWKhwc8WPWzlPNFF9cMI+rYyPWGOmhSuhIJsHvRbddfm

6nte8Wt7cc2Q0Ha89b1Mwmy4/LKT810RyOGe8t66eDrxkGv2dlmimUJ2Tn6E92b9

WyStLC+FDqEecPC46P8UCEf4c9Ed+MiwRQzwIFBlqAMqljtG1StmwEoYJ8WLazl5

wG9QpSOzy/4JKTqjm5pLfUYA2xIfnP1h/9ESD7AYU47PNZF/KRh20VCMBHeV79V7

en/w0NJPeacK9ug2XNFWHSARS2Bgb3KAXdtoicBIcjZAtNpm1W5NOaZ7Ol4zngV0

V45XOgWxin+7oYXoLaMfi7pmOEnZnmBNWmPSBdjRIQChAgMA/zkwDQYJKoZIhvcN

AQENBQADggIBAJmNVT+x4iprrlBdqChLCK1dhiozzbYBkRQGE8HXryIzCPY+tOzO

NOZr1xAIL8Iczy1DVZRHsAw5CNSWnSnfKHdd/tDV9aCpITfWUqOb22hrG9wK9P5X

jZhBusc9BBX1oNL/CiD+HschhsOqpdl4MMWpH6aSdoK+qxTW8+830OCiLHHzQuB8

UkP/XSjr/70CmOuqd71QrfdbrqTzdRmzhKg6SnwUR9j3nToymOiwaZM8ucR/gbN3

9mzORiqiGydvyjJ/LJgpV5viERLCK1iUua2SJ4+5NRByS//JfDt90U8YoGXAohMj

wz55Arc8CJvd2M0W0v0OeyIMj7EJzhTDcxS5mmLrl6BrsFC37qgFiSsjffoOXnsZ

MkMC/edUyGSqpJ4N5/huyYkoP/C7OSQTXgsDE8gN4kESIWkzHLJCnP/A2A4jaHlm

G8onZtR92xLSEksggyAAp19Rx9510Rqo27+qooJTQ0D/Ovjyf9i+dn9x3cczpmDs

fN9ucu5Bd9TCNlP84pIw7rEyhA+otly47dgC6uL7digv0lfUtwenOgnNWyON9Y20

1SLiF5lyFpEmxq9m/bo6Vci2EWgf4D6Ib+R6ZpRUFvBZUHp6rfXl9Qi1bD5qM4It

Javl7XGk7CyGyFO/SCv3SxOKP1d54poRY/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.

> ℹ️ 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 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"}],"deviceAttrib
utes":[],"id":"97856","name":"TD-
RD03","parentID":"36150","movedToBin":false,"objectType":"tc","links":[]}]
```

IGEL

GET /v3/thinclients?facets=deviceattributes

Summary

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

> ℹ️ 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 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 .

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 19) 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": []

}
```

IGEL

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

Summary

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

> ℹ️ 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 19) 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 235).

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 19) 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-----
```

MIIE1jCCAr6gAwIBAgIEBCOa4zANBgkqhkiG9w0BAQ0FADAtMQswCQYDVQQGEwJE

RTEPMA0GA1UEBxMGQnJlbWVuMQ0wCwYDVQQKEwRJR0VMMB4XDTE0MDEwMTAwMDAw

MVoXDTM3MDEwMTAwMDAwMVowLTELMAkGA1UEBhMCREUxDzANBgNVBAcTBkJyZW1l

bjENMAsGA1UEChMESUdFTDCCAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgoCggIB

AJw6kiftBFhAnFXGfzMnuhiSYm9QrGFGvryvNpPzEK8f8Svcp62R+jv3bhtlFJcW

QGf4xn4xRoQUzj48m5Y1Sg12oY/YBNt5xLxKLTeq0HGurpYVan40zoT0FRG+ygpX

WUh0MvPfFYscokWo/7Id5EycfBefVwvx6ZO9zOb112J8qgmo5/aenWJph70dJbKW

sH2ojXzjU6tkrMVv80V+68TNOc5I8V2wIzlgeqNnpKCZLkSbRjzhd6FMoY0RdqqC

MLuMAluDoKuj5Z29tGNX1YYnIt7w+DmB18g8hYWbLztLhMqX6pNBfEgi3VLqjUOS

iIFmfzGT9ZpuCNMfvpXzCWKhwc8WPWzlPNFF9cMI+rYyPWGOmhSuhIJsHvRbddfm

6nte8Wt7cc2Q0Ha89b1Mwmy4/LKT810RyOGe8t66eDrxkGv2dlmimUJ2Tn6E92b9

WyStLC+FDqEecPC46P8UCEf4c9Ed+MiwRQzwIFBlqAMqljtG1StmwEoYJ8WLazl5

wG9QpSOzy/4JKTqjm5pLfUYA2xIfnP1h/9ESD7AYU47PNZF/KRh20VCMBHeV79V7

en/w0NJPeacK9ug2XNFWHSARS2Bgb3KAXdtoicBIcjZAtNpm1W5NOaZ7Ol4zngV0

V45XOgWxin+7oYXoLaMfi7pmOEnZnmBNWmPSBdjRIQChAgMA/zkwDQYJKoZIhvcN

AQENBQADggIBAJmNVT+x4iprrlBdqqChLCK1dhiozzbYBkRQGE8HXryIzCPY+tOzO

NOZr1xAIL8Iczy1DVZRHsAw5CNSWnSnfKHdd/tDV9aCpITfWUqOb22hrG9wK9P5X

jZhBusc9BBX1oNL/CiD+HschhsOqpdl4MMWpH6aSdoK+qxTW8+830OCiLHHzQuB8

UkP/XSjr/70CmOuqd71QrfdbrqTzdRmzhKg6SnwUR9j3nToymOiwaZM8ucR/gbN3

9mzORiqiGydvyjJ/LJgpV5viERLCK1iUua2SJ4+5NRByS//JfDt90U8YoGXAohMj

wz55Arc8CJvd2M0W0v0OeyIMj7EJzhTDcxS5mmLrl6BrsFC37qgFiSsjffoOXnsZ

MkMC/edUyGSqpJ4N5/huyYkoP/C7OSQTXgsDE8gN4kESIWkzHLJCnP/A2A4jaHlm

G8onZtR92xLSEksggyAAp19Rx9510Rqo27+qooJTQ0D/Ovjyf9i+dn9x3cczpmDs

fN9ucu5Bd9TCNlP84pIw7rEyhA+otly47dgC6uL7digv0lfUtwenOgnNWyON9Y20

1SLiF5lyFpEmxq9m/bo6Vci2EWgf4D6Ib+R6ZpRUFvBZUHp6rfXl9Qi1bD5qM4It

Javl7XGk7CyGyFO/SCv3SxOKP1d54poRY/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 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"}],"deviceAttrib
utes":[],"id":"97856","name":"TD-
RD03","parentID":"36150","movedToBin":false,"objectType":"tc","links":[]}
```

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

Summary

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

> ℹ️ 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 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 .

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"

}

]

}

]
```

IGEL

GET /v3/thinclientview/{viewId}

> ℹ 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}` .

> 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
> 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 19).

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

> ℹ 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}.

> 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 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 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

ℹ 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}` .

ℹ 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.

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/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 19) 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

> ℹ️ 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}` .

> ℹ️ 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 19) 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-----

MIIE1jCCAr6gAwIBAgIEBCOa4zANBgkqhkiG9w0BAQ0FADAtMQswCQYDVQQGEwJE

RTEPMA0GA1UEBxMGQnJlbWVuMQ0wCwYDVQQKEwJR0VMMB4XDTE0MDEwMTAwMDAw

MVoXDTM3MDEwMTAwMDAwMVowLTELMAkGA1UEBhMCREUxDzANBgNVBAcTBkJyZW1l

bjENMAsGA1UEChMESUdFTDCCAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgoCggIB

AJw6kiftBFhAnFXGfzMnuhiSYm9QrGFGvryvNpPzEK8f8Svcp62R+jv3bhtlFJcW

QGf4xn4xRoQUzj48m5Y1Sg12oY/YBNt5xLxKLTeq0HGurpYVan40zoT0FRG+ygpX

WUh0MvPfFYscokWo/7Id5EycfBefVwvx6ZO9zOb112J8qgmo5/aenWJph70dJbKW

sH2ojXzjU6tkrMVv80V+68TNOc5I8V2wIzlgeqNnpKCZLkSbRjzhd6FMoY0RdqqC

MLuMAluDoKuj5Z29tGNX1YYnIt7w+DmB18g8hYWbLztLhMqX6pNBfEgi3VLqjUOS

iIFmfzGT9ZpuCNMfvpXzCWKhwc8WPWzlPNFF9cMI+rYyPWGOmhSuhIJsHvRbddfm

6nte8Wt7cc2Q0Ha89b1Mwmy4/LKT810RyOGe8t66eDrxkGv2dlmimUJ2Tn6E92b9

WyStLC+FDqEecPC46P8UCEf4c9Ed+MiwRQzwIFBlqAMqljtG1StmwEoYJ8WLazl5

wG9QpSOzy/4JKTqjm5pLfUYA2xIfnP1h/9ESD7AYU47PNZF/KRh20VCMBHeV79V7

en/w0NJPeacK9ug2XNFWHSARS2Bgb3KAXdtoicBIcjZAtNpm1W5NOaZ7Ol4zngV0

V45XOgWxin+7oYXoLaMfi7pmOEnZnmBNWmPSBdjRIQChAgMA/zkwDQYJKoZIhvcN

AQENBQADggIBAJmNVT+x4iprrlBdqChLCK1dhiozzbYBkRQGE8HXryIzCPY+tOzO

NOZr1xAIL8Iczy1DVZRHsAw5CNSWnSnfKHdd/tDV9aCpITfWUqOb22hrG9wK9P5X

jZhBusc9BBX1oNL/CiD+HschhsOqpdl4MMWpH6aSdoK+qxTW8+830OCiLHHzQuB8

UkP/XSjr/70CmOuqd71QrfdbrqTzdRmzhKg6SnwUR9j3nToymOiwaZM8ucR/gbN3

9mzORiqiGydvyjJ/LJgpV5viERLCK1iUua2SJ4+5NRByS//JfDt90U8YoGXAohMj

wz55Arc8CJvd2M0W0v0OeyIMj7EJzhTDcxS5mmLrl6BrsFC37qgFiSsjffoOXnsZ

MkMC/edUyGSqpJ4N5/huyYkoP/C7OSQTXgsDE8gN4kESIWkzHLJCnP/A2A4jaHlm

G8onZtR92xLSEksggyAAp19Rx9510Rqo27+qooJTQ0D/Ovjyf9i+dn9x3cczpmDs

fN9ucu5Bd9TCNlP84pIw7rEyhA+otly47dgC6uL7digv0lfUtwenOgnNWyON9Y20

1SLiF5lyFpEmxq9m/bo6Vci2EWgf4D6Ib+R6ZpRUFvBZUHp6rfXl9Qi1bD5qM4It

Javl7XGk7CyGyFO/SCv3SxOKP1d54poRY/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/thinclientview/{viewId}?facets=networkadapters

> ℹ️ 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.

> ℹ️ 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 19) 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"}],"deviceAttrib
utes":[],"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 .

Example Response

```
{
```

```
"message": "1 asssignments 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 adress
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 99)	String	no	UMS internal identifier of the device attribute; see *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*
`deviceAttributes/value` * (see page 99)	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/{tcId}

Summary

Updates properties of the specified thin client

Resource URL

/v3/thinclients/{tcId}

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 Managment 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 *Universal Management Suite > Universal Managment Suite (UMS) > UMS Reference Manual > UMS Administration > Global Configuration in the IGEL UMS > Managing Device Attributes for IGEL OS Devices in the IGEL UMS*
`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/{tcId}

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/{tcId}/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 13).

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 13).

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 13).

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 19) 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

Summary

Gets information on all profiles on the UMS instance.

> ℹ️ 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 .

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 24)

Response Type

Returns a success message.

Example Response

```
{

"message": "1 asssignments successfully assigned to thinclient <23028>"

}
```

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

Summary

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

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 24).

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

Response Type

Returns a success message.

Example Response

```
{

"message": "1 asssignments 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 133)
- GET /v3/masterprofiles/{profileid} (see page 136)
- PUT /v3/masterprofile/{profileid} (see page 138)
- DELETE /v3/masterprofiles/{profileid} (see page 139)
- GET /v3/masterprofiles/{profileid}/assignments/thinclients (see page 140)
- PUT /v3/masterprofiles/{profileid}/assignments/thinclients/ (see page 143)
- DELETE /v3/masterprofiles/{profileid}/assignments/thinclients/{id} (see page 145)
- GET /v3/masterprofiles/{profileid}/assignments/tcdirectories (see page 146)
- PUT /v3/masterprofiles/{profileid}/assignments/tcdirectories/ (see page 148)
- DELETE /v3/masterprofiles/ {profileid}/assignments/tcdirectories/{id} (see page 150)

GET /v3/masterprofiles

Summary

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

> ⓘ 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": "Spcieal 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"

}

]

}

]
```

IGEL

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",
```

```json
"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 24).

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"

}

]

}

]
```

IGEL

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

Response Type

Returns a success message.

Example Response

```
{

"message": "1 asssignments 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 .

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 24)

Response Type

Returns a success message.

Example Response

```
{

"message": "1 asssignments 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 152)
- GET /v3/directories/profiledirectories?facets=children (see page 156)
- GET /v3/directories/profiledirectories{id} (see page 161)
- GET /v3/directories/profiledirectories[id]?facets=children (see page 163)
- PUT /v3/directories/profiledirectories/ (see page 166)
- PUT /v3/directories/profiledirectories/{id} (see page 167)
- PUT /v3/directories/profiledirectories/[id]?operation=move (see page 169)
- DELETE /v3/directories/profiledirectories/{id} (see page 171)

GET /v3/directories/profiledirectories

Summary

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

> ℹ️ 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/director` ies/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.

> ℹ️ 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.

> ℹ️ 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 13)

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.

> ℹ 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 173)
- GET /v3/directories/masterprofiledirectories?facets=children (see page 177)
- GET /v3/directories/masterprofiledirectories/{id} (see page 180)
- GET /v3/directories/masterprofiledirectories{id}?facets=children (see page 182)
- PUT /v3/directories/masterprofiledirectories (see page 185)
- PUT /v3/directories/masterprofiledirectories/{id} (see page 186)
- PUT /v3/directories/masterprofiledirectories/{id}?operation=move (see page 187)
- DELETE /v3/directories/masterprofiledirectories{id} (see page 189)

GET /v3/directories/masterprofiledirectories

Summary

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

> ⓘ 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).

> ℹ️ 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.

> ℹ️ 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 13)

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).

> ℹ 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
- GET /v3/firmwares/{fwId}

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 195)
- PUT /v3/template/assign/dir (see page 197)
- GET /v3/template/{id}/read (see page 199)
- PUT /v3/template (see page 201)
- PUT /v3/template/{id}/value (see page 203)

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 206)
- GET /v3/directories/tcdirectories?facets=children (see page 208)
- GET /v3/directories/tcdirectories/{id} (see page 213)
- GET /v3/directories/tcdirectories/{id}?facets=children (see page 215)
- PUT /v3/directories/tcdirectories/ (see page 220)
- PUT /v3/directories/tcdirectories/{id} (see page 221)
- PUT /v3/directories/tcdirectories/{id}?operation=move (see page 222)
- DELETE /v3/directories/tcdirectories/{id} (see page 224)
- GET /v3/directories/tcdirectories/{id}/assignments/profiles (see page 225)
- PUT /v3/directories/tcdirectories/[id]/assignments/profiles (see page 228)

GET /v3/directories/tcdirectories

Summary

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

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

Resource URL

`/v3/director` ies/tcdirectories

Example Request

```
curl \
```

```
--request GET \
```

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

Response Type

Returns a list of Directories .

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.

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

Resource URL

`/v3/director` ies/tcdirectories?facets=children

Example Request

```
curl \
```

```
--request GET \
```

```
https://[server]:8443/umsapi/v3/directories/tcdirectories/facets=children
```

Response Type

Returns a list of Directories , 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"

}

},

{
```

[...]

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 .

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.

> ℹ️ 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 26), 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 13)

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.

> ℹ️ 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 .

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 .

Example Response

```
{
```

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

}
```

Error Codes

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 `catalina.log` and `stderr`

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 ssignment
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)

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 .
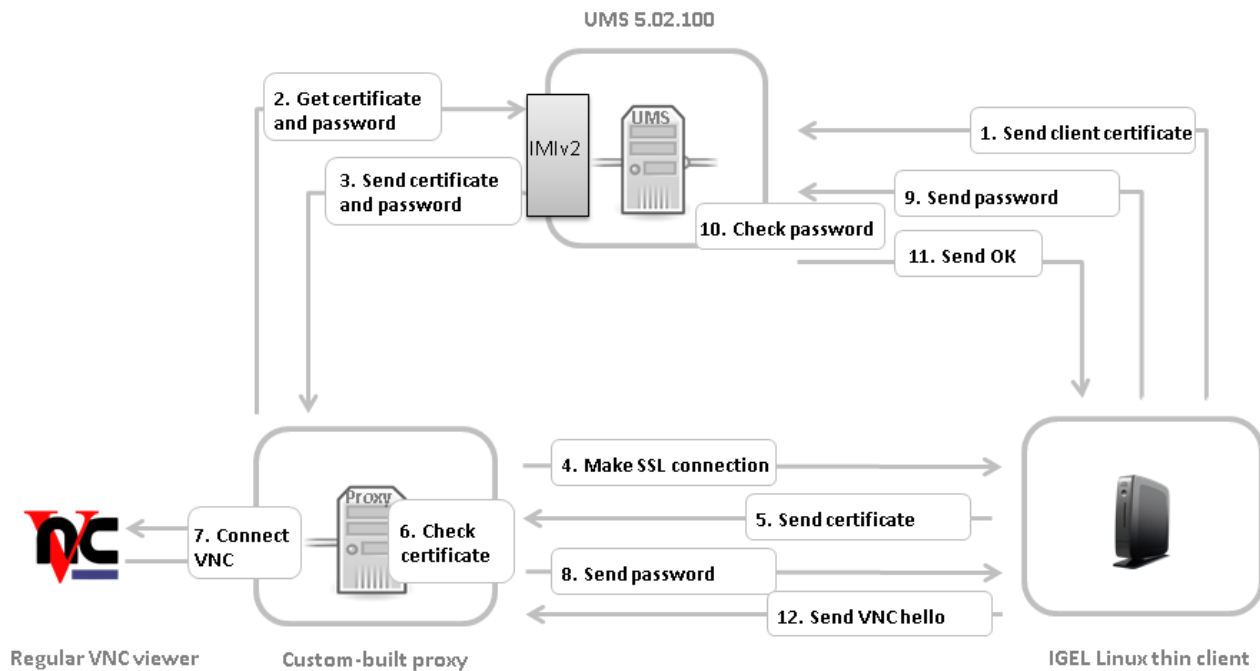
Prerequisites

- *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 .

IGEL

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.

> 🛈 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.

IGEL

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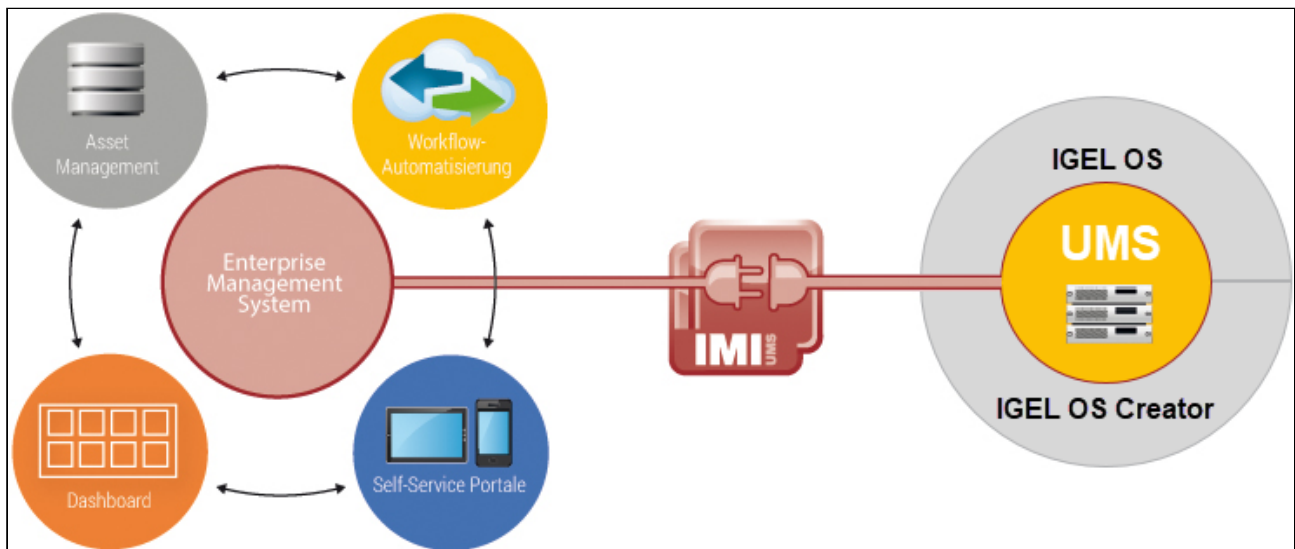
This document serves as an introduction to using IGEL Management Interface (IMI).

Detailed information about the requests can be found under IMI API V3 Reference (see page 4).

- Licensing (see page 240)
- REST Basics (see page 241)
- Prerequisites (see page 244)
- First Steps (see page 245)
- Creating, Updating and Deleting Resources (see page 259)
- Further Operations (see page 267)

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 `assethistory`.

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 UMS[5] and IGEL OS Editions[6].

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 Ressources and HTTP Methods .

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
`/v3/directories/tcdirectories`	A list of all thin client directories
`/v3/directories/tcdirectories/123`	The thin client directory with the ID 123
`/v3/firmwares`	A list of all firmwares in the UMS instance
`/v3/firmwares/7`	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*

IGEL

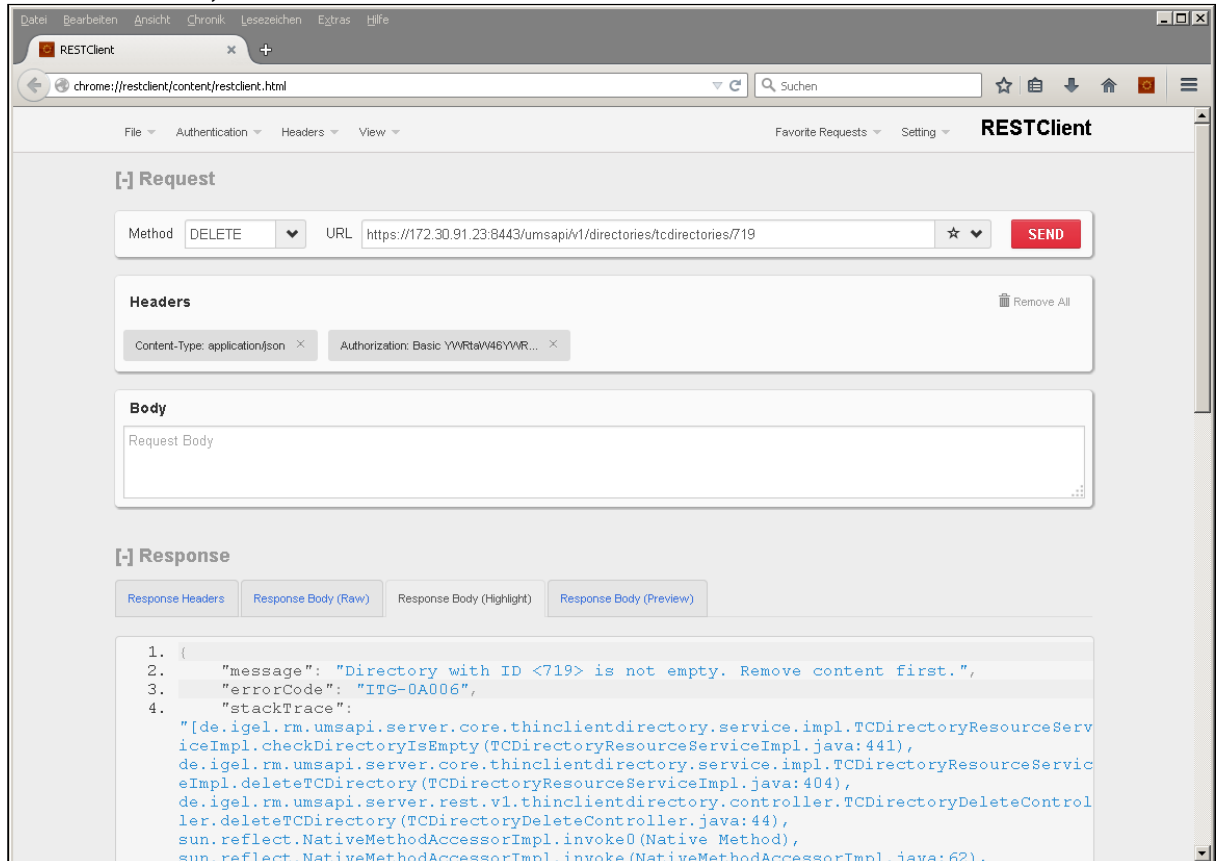# First Steps

Client Applications and Libraries

Clients

The easiest way to try out the *IGEL Management Interface* is either
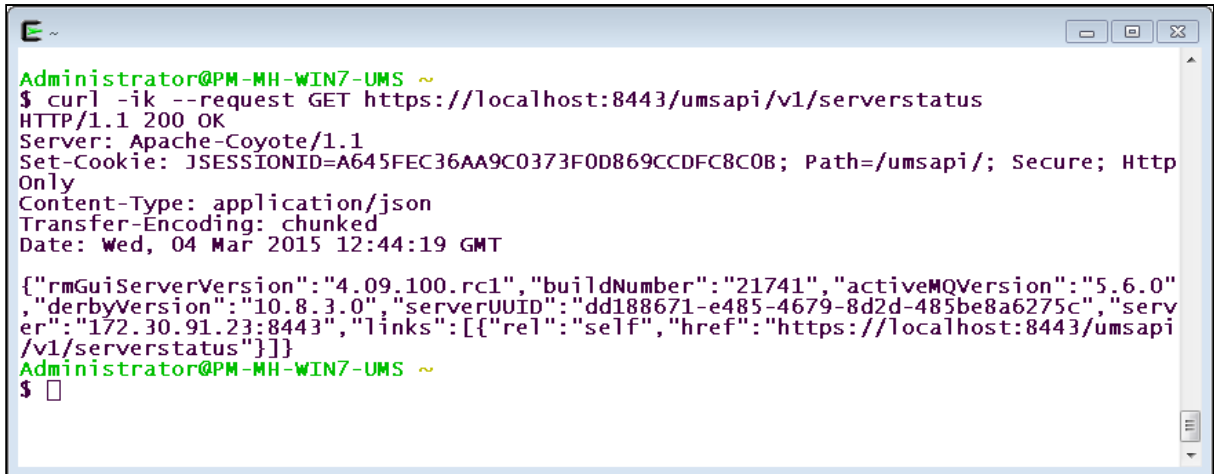
- with RESTClient[7], an add-on for *Mozilla Firefox:*

or

- with cURL[8], a commandline network client:

---

7. http://restclient.net/
8. http://curl.haxx.se/

```
E ~                                                                        [ロ][回][≥3]
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","serv
er":"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 248)).

Logging In

→ Send an HTTP POST request to `/v2/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 246).

> ℹ 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 alle 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

→ 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

→ 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[9].

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

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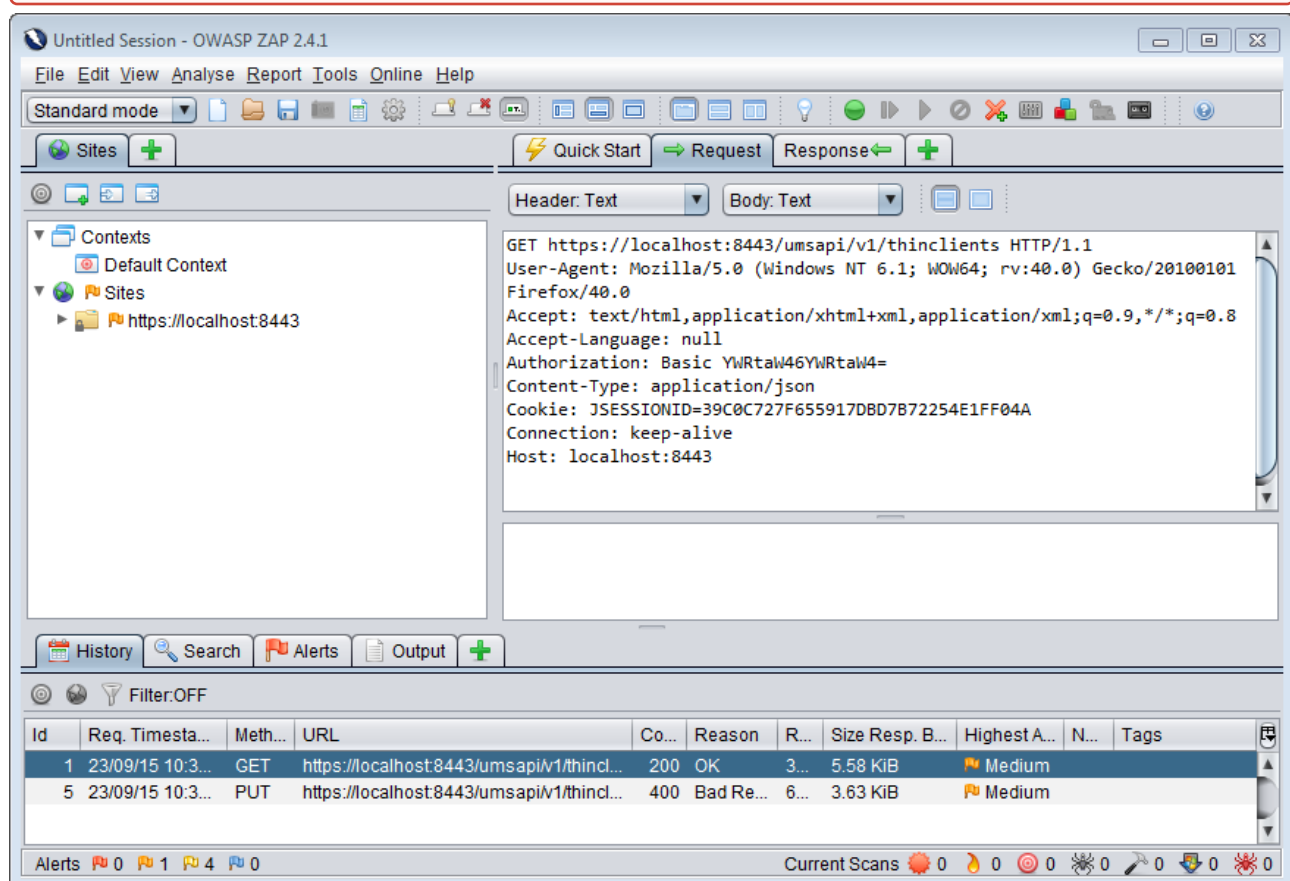
9. https://www.owasp.org/index.php/OWASP_Zed_Attack_Proxy_Project

Powershell

- Introduction (see page 273)
- Command Reference (see page 277)

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 underlyingREST API.

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

_____

IGEL

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

> ℹ️ 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.

> ℹ️ 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`

IGEL

Command Reference

IGEL

Device

IGEL

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
```

IGEL

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
```

IGEL

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
```

IGEL ☀

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
```

IGEL

Profile

IGEL

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
```

IGEL

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 assigments 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 asssignments 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
```

IGEL

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".

IGEL logo

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
```

![IGEL logo]

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 assigments 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
```

IGEL

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 asssignments 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

IGEL

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-IgelTCDirectories -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}
```

IGEL

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
```

IGEL

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
```

IGEL

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 asssignments successfully assigned
```

Remove-IGELDeviceDirectory

Summary

Deletes a device directory.

ℹ 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

IGEL

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
```

IGEL

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.
```

IGEL

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
```

IGEL

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
```

IGEL

Remove-IgelProfileDirectory

Summary

Deletes a profile directory.

> ℹ 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

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
```

IGEL

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.
```

IGEL

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
```

IGEL logo

Remove-IgelMasterprofileDirectory

Summary

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

ℹ️ 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.
```

Firmware

- Get-IgelFirmware

IGEL

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
```