



UNITED SECURITY PROVIDERS

USP Network Authentication System®

Migration Guide

Version 18.0



United Security Providers AG
www.united-security-providers.ch
info@united-security-providers.ch

Headquarter	Stauffacherstrasse 65/15	CH-3014 Bern	Tel. +41 31 959 02 02
Baslerpark	Mürtschenstrasse 27	CH-8048 Zürich	Tel. +41 44 496 61 11



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1 USP NAS 18.0

1.1 Summary

This migration guide provides a set of guidelines to migrate the USP Network Authentication System® from versions 17.x to the latest version 18.0.

In most cases, no actions are required and all changes are done automatically. However, the update might require some minor manual changes. Consult the migration guide carefully prior to the update and apply any steps required before or after the update.

When upgrading existing installations, please follow the recommended upgrade procedure outlined in the "USP NAS Installation Guide".

If you are updating from a Network Authentication System® Appliance older than version 17.0, please consult also the migration guides for all intermediate versions. This migration guide only outlines the changes between the new and the previous major version of the USP Network Authentication System®.

1.2 Script synchronization

In High-Availability operation mode, (scheduled) scripts are now included when synchronizing configuration from *Master* to *Authenticator* systems. **This will delete any previously existing scripts on an authenticator system.** We advise you to store any existing scripts externally before the update.

After the update, all scripts need to be configured on the *Master* system. A new option to choose the execution scope will be available in the script editor, so you can choose if a scheduled script should run on all systems, on the master, or on authenticator systems only.

1.3 Endpoint attributes

1.3.1 Changes in the REST API

Due to the introduction and standardization of editable endpoint attributes, formerly also called "endpoint details" or "additional (endpoint) information", the related API methods and properties have changed:

Method	Version 17.0	Version 18.0
Fetch list of endpoints GET /api/v1/endpoints	<pre>[{ "macAddress": "00012 ↵ e703675", ... "endpointDetails": [{ "source": "EAP", "key": "subject. ↵ commonName", "value": "zotac- ↵ zbox" }] }]</pre>	<pre>[{ "macAddress": "00012 ↵ e703675", ... "attributes": [{ "key": "issuer. ↵ commonName", "value": "ca. ↵ test.usp-nas.internal", "source": "EAP" }] }]</pre>



Method	Version 17.0	Version 18.0
Bulk-import endpoints POST /api/v1/endpoints/inventory/upload	<pre>[{ "assetId": "string", "parentAssetId": " ← string", "clientName": " ← string", "macAddress": " ← string", ... " ← additionalInformation": { "additionalProp1": ← string", "additionalProp2": ← string", "additionalProp3": ← string" }, ... }]</pre>	<pre>[{ "assetId": "string", "parentAssetId": " ← string", "clientName": " ← string", "macAddress": " ← string", ... "attributes": { "key1": "string", "key2": "string", "key3": "string" }, ... }]</pre>
Bulk-import additional ← endpoint details (key-value pairs) POST /api/v1/endpoints/details/upload	<pre>[{ "macAddress": " ← string", "ipAddress": "string ← ", "key": "string", "value": "string" }]</pre>	<u>_removed_</u>



2 USP NAS 17.0

2.1 Summary

This migration guide provides a set of guidelines to migrate the USP Network Authentication System® from versions 16.x to the latest version 17.0.

In most cases, no actions are required and all changes are done automatically. However, some minor manual changes might be required by the update. Consult the migration guide carefully prior the update and apply any steps required before or after the update.

When upgrading existing installations, please follow the recommended upgrade procedure outlined in the "USP NAS Installation Guide".

If you are updating from a Network Authentication System® Appliance older than version 16.0, please consult also the migration guides for all intermediate versions, as this migration guide only outlines the changes between the new and the previous USP Network Authentication System® version.

2.2 RADIUS Server Reject event when performing EAP authentication

When a client performing EAP authentication is rejected by the server (e.g. invalid certificate), the related connection event is now a `CONNECTION_BLOCKING_EVENT` of type `RADIUS_SERVER_REJECT` instead of a `CONNECTION_EVENT` with type `POLICY_HANDLER_ABORT`. If log messages are forwarded via syslog and evaluated on a thirty-party log collector, some changes might be needed when using dedicated queries to analyze this data.

2.3 Fetching system memory usage via SNMP

Due to an underlying change in how the operating systems represents information about the system memory, some values which can be fetched via SNMP for monitoring had their purpose changed. The values returned did not match anymore what their label said. The "USP Appliance MIB" (download via Web GUI) has been adapted as follows to fix this:

`.1.3.6.1.4.1.26458.7419.11.3.5.0` is now labeled `memoryBufferedCached` instead of `memoryBuffered`, and OID `.1.3.6.1.4.1.26458.7419.11.3.6.0` is now labeled `memoryAvailable` instead of `memoryCached`.

2.4 Removed features

2.4.1 Soft-deleted netdevices/netports

Netdevice and netport records are removed immediately from the database when deleting them. The "Trashed netdevices" page has been removed from the Web GUI.

The column `deleted` have been removed from the `netdevice` and `netport` database tables. If you use any custom SQL in scripts, verify that these columns are not used anymore.

2.4.2 SNMP trap forwarder

The SNMP trap forwarder feature is no longer available, and there is no replacement for it.



2.5 Deprecation notice

The following functionality is considered deprecated/obsolete and might be removed or replaced with an alternative implementation in the next USP NAS major release 18.0:

- Legacy GUI
- VLAN Zones/WLAN ACL Zones (to be replaced by new policy management implementation)
- Netdevice classes WTP/ACCOUNTING (to be replaced by new policy management implementation)
- Endpoint profiling (DHCP profiling) (to be replaced by generic endpoint attributes and policy option to make use of them)
- Endpoint compliance (EPC / WMI Scanner / Health profile) (to be replaced with MS Intune NAC API Compliance lookup)
- Soft-deleted endpoints



3 USP NAS 16.0

3.1 Summary

This migration guide provides a set of guidelines to migrate the USP Network Authentication System® from versions 15.x to the latest version 16.0.

In most cases, no actions are required and all changes are done automatically. However, some minor manual changes might be required by the update. Consult the migration guide carefully prior the update and apply any steps required before or after the update.

When upgrading existing installations, please follow the recommended upgrade procedure outlined in the "USP NAS Installation Guide".

If you are updating from a Network Authentication System® Appliance older than version 15.0, please consult also the migration guides for all intermediate versions, as this migration guide only outlines the changes between the new and the previous USP Network Authentication System® version.

3.2 Changes in the REST API

The naming in the data structure of the **netdevices**, **interfaces** and **endpoints REST APIs** has been standardized. All property names and filter parameters are now written in **camel case** instead of a mix of snake case and camel case. For example, a property like **netdevice_id** has been renamed to **netdeviceid**.

Additionally, many more properties and filter parameters have been added, and the performance with large data sets has been improved. Properties are now also ordered in a more logical way.

Please consult the online REST API documentation in the USP NAS Web GUI for more details.

Here are some examples on the differences in the REST API response between release 15.x and 16.0:

3.2.1 Netdevices



Version 15.4	Version 16.0
<pre>[{ "id": 1002004, "device_name": "cisco-c-1300", "device_ip": "10.15.1.20", "device_class": "SWITCH", "portgroups": ["Main building"], "errorcode": 0, "source": "testlab", "inscope": 1, "updated": "2025-08-21T12:08:50.574+00:00", "created": "2025-08-21T12:01:48.442+00:00", "location": "Datacenter East", "devicetype": "GenericQBridgeMibAdaptor", "description": "Catalyst 1300 Series Managed Switch (C1300-8P-E-2G)", "snmpAccessProfileId": "52f36b8b-4d6c-45b1-80b9-3c2cb4852073", "snmpAccessProfileName": null, "snmpVersion": "SNMPV3", "snmpAuthenticationAlgorithm": "SHA512", "snmpEncryptionAlgorithm": "AES128" }]</pre>	<pre>[{ "id": 1002004, "deviceName": "cisco-c-1300", "deviceIp": "10.15.1.20", "deviceClass": "SWITCH", "deviceType": "GenericQBridgeMibAdaptor", "inScope": "IN_SCOPE", "location": "Datacenter East", "description": "Catalyst 1300 Series Managed Switch (C1300-8P-E-2G)", "accessControl": "SYSTEMDEFAULT", "accounting": "ACCOUNTING_ENABLED_ALL", "snmpAccessProfileId": "52f36b8b-4d6c-45b1-80b9-3c2cb4852073", "snmpAccessProfileName": null, "snmpVersion": "SNMPV3", "snmpAuthenticationAlgorithm": "SHA512", "snmpEncryptionAlgorithm": "AES128", "errorCode": "NO_ERROR", "portGroup": "Main building", "accessRule": "BASEACCESSRULE", "accessMode": "RESTRICTIVE", "hasNetports": true, "source": "testlab", "created": "2025-08-21T12:01:48.442Z", "updated": "2025-08-21T12:25:52.539Z", "lastScan": "2025-08-21T12:25:52.529Z", "lastScanDuration": 12397 }]</pre>

- Previously, the response contained an array `portgroups` for the assigned portgroups. It has been replaced with a property `portGroup` indicating the effective portgroup in use, based on its priority.
- New properties `accessControl`, `accounting`, `accessRule`, `accessMode`, `hasNetports`, `lastScan`, `lastScanDuration` have been added.
- New filters for `description`, `accessControl`, `snmpAccessProfileName`, `portGroup`, `accessRule`, `hasNetports`, `lastScan` have been added.
- Numeric values of properties `errorCode` and `inScope` have been replaced with a descriptive name. This also affects the respective filters.
- Soft-deleted netdevices are no longer included in the API response. The related filter parameters `deletedBefore` and `deletedAfter` have been removed.

3.2.2 Interfaces



Version 15.4	Version 16.0
<pre>[{ "id": 1002231, "netdevice_id": 1002004, "portgroups": ["Main building"], "ifname": "gi1", "ifindex": 1, "ifalias": "uplink", "dot1xstate": 1, "defaultvlan": 1, "netport": true }, { "id": 1002232, "netdevice_id": 1002004, "portgroups": ["Main building"], "ifname": "gi2", "ifindex": 2, "ifalias": "access", "dot1xstate": 0, "defaultvlan": 1, "netport": false }]</pre>	<pre>[{ "id": 1002231, "netdeviceId": 1002004, "netdeviceName": "cisco-c-1300", "netdeviceIp": "10.15.1.20", "ifName": "gi1", "ifIndex": 1, "ifAlias": "uplink", "ifType": "ETHERNET_CSMACD", "nodeCount": 14, "dot1xEnabled": false, "defaultVlan": 1, "netportType": "NETPORT", "portGroup": "Main building", "accessRule": "BASEACCESSRULE", "accessMode": "RESTRICTIVE", "updated": "2025-08-21T13 ↵ :07:44.441327Z" }, { "id": 1002232, "netdeviceId": 1002004, "netdeviceName": "cisco-c-1300", "netdeviceIp": "10.15.1.20", "ifName": "gi2", "ifIndex": 2, "ifAlias": "access", "ifType": "ETHERNET_CSMACD", "nodeCount": 0, "dot1xEnabled": true, "defaultVlan": 1, "netportType": null, "portGroup": "Main building", "accessRule": "BASEACCESSRULE", "accessMode": "RESTRICTIVE", "updated": "2025-08-21T13 ↵ :07:44.441327Z" }]</pre>

- Previously, the response contained an array `portgroups` for the assigned portgroups. It has been replaced with a property `portGroup` indicating the effective portgroup in use, based on its priority.
- New properties `netdeviceName`, `netdeviceIp`, `ifType`, `nodeCount`, `accessRule`, `accessMode`, `updated` have been added.
- Numeric property `dot1xstate` has been replaced with boolean property `dot1xEnabled`.
- Boolean property `netport` has been replaced with property `netportType` since there exist more than one netport types. A value of `null` indicates that no netport of any kind is configured.
- New filters for `netdeviceName`, `netdeviceIp`, `ifType`, `dot1xEnabled`, `defaultVlan`, `isNetport`, `portGroup`, `accessRule` have been added.
- The API response will no longer contain records belonging to soft-deleted netdevices.



3.2.3 Endpoints



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Version 15.4	Version 16.0
Version 15.4	Version 16.0
<pre>[{ "macAddress": "00012e703675", "macVendor": "PC Partner Ltd.", "status": "ACTIVE", "netdevice_id": 1002000, "ifname": "gi8", "ifindex": 8, "ifalias": "8021x", "vlan": 1, "defaultvlan": 1, "clientip": "192.168.100.53", "clientip_updated": "2025-08-21T12 ↵ :25:33.360+00:00", "client_router_name": "fortigate-80 ↵ e", "client_router_ip": ↵ "192.168.100.99", "clientname": null, "clientname_inventory": null, "eap_username": "host/zotac-zbox", "eap_username_inventory": "zotac- ↵ zbox", "location": null, "source": "EAP_CACHE", "changedBy": null, "inventoried": true, "assetId": "n/a", "assettype": null, "assetclass": null, "lastcheck": "2025-08-21T12 ↵ :23:40.231+00:00", "updated": "2025-08-21T12 ↵ :25:34.140+00:00", "created": "2025-08-21T12 ↵ :02:35.922+00:00", "devicename": "cisco-cbs-250", "deviceip": "192.168.100.100", "portGroup": "Global", "accessMode": "ALLOWED", "accessRule": "BASEACCESSRULE", "endpointDetails": [{ "source": "EAP", "key": "subject.commonName", "value": "zotac-zbox" }] }]</pre>	<pre>[{ "macAddress": "00012e703675", "macVendor": "PC Partner Ltd.", "eapUsername": "host/zotac-zbox", "clientIp": "192.168.100.53", "clientIpUpdated": "2025-08-21T12 ↵ :25:33.360Z", "clientNameDns": null, "vlan": 1, "status": "ACTIVE", "authType": "IEEE802DOT1X", "firstSeen": "2025-08-21T12 ↵ :02:35.922Z", "lastSeen": "2025-08-21T13 ↵ :07:26.915Z", "lastCheck": "2025-08-21T12 ↵ :23:40.231Z", "lastEvent": "2025-08-21T12 ↵ :23:40.243Z", "lastStatusChange": "2025-08-21T12 ↵ :23:40.227089Z", "netdeviceId": 1002000, "netdeviceName": "cisco-cbs-250", "netdeviceIp": "192.168.100.100", "ifName": "gi8", "ifIndex": 8, "ifAlias": "8021x", "defaultVlan": 1, "portGroup": "Global", "accessRule": "BASEACCESSRULE", "accessMode": "ALLOWED", "routerName": "fortigate-80e", "routerIp": "192.168.100.99", "inventoried": true, "authorized": true, "identityType": "EAP_LAN", "eapUsernameInventory": "zotac-zbox ↵ ", "clientNameInventory": null, "location": null, "owner": null, "assetType": null, "assetClass": null, "tenant": null, "doubleAttached": false, "assetId": null, "changedBy": null, "source": "EAP_CACHE", "inventoryCreated": "2025-08-21T12 ↵ :23:40.221Z", "inventoryUpdated": "2025-08-21T12 ↵ :23:40.221Z", "inventoryValidUntil": null, "endpointDetails": [{ "source": "EAP", "key": "issuer.commonName", "value": "ca.test.usp-nas. ↵ internal" }] }]</pre>



Version 15.4	Version 16.0
--------------	--------------

- Properties have been ordered according to *Node in network* → *Netdevice* → *Inventory record*.
- New properties `authType`, `lastEvent`, `lastStatusChange`, `authorized`, `identityType`, `owner`, `tenant`, `doubleAttached`, `inventoryCreated`, `inventoryUpdated`, `inventoryValidUntil` have been added.
- `clientname` has been renamed to `clientNameDns`.
- `client_router_name` and `client_router_ip` have been renamed to `routerName` and `routerIp` respectively.
- `created` has been renamed to `firstSeen`, and `updated` has been renamed to `lastSeen`.
- New filters have been added for almost all properties.
- Filters for `eapUsername` and `clientName` now check both network and inventory record.
- If a netdevice has been deleted, the related values will be set to `null`.

3.3 Migration of SAB functionality to Java

Backup-related functionality of the SAB CLI API tool has been migrated into the USP NAS core daemon Java code. As a consequence the following SAB function can no longer be used directly on the CLI:

```
sab backup:set_backup
sab backup:get_backup
sab backup:del_backup
sab backup:run_backup
sab backup:do_backup
sab backup:do_validate
sab backup:do_restore
```

3.4 Deprecation notice

The following functionality is considered deprecated/obsolete and will be removed or replaced with an alternative implementation in the next USP NAS major release 17.0:

- SNMP trap forwarder
- VLAN Zones/WLAN ACL Zones (to be replaced by new policy management implementation)
- Netdevice classes WTP/ACCOUNTING (to be replaced by new policy management implementation)
- Soft-deleted netdevices/netports
- Soft-deleted endpoints



4 USP NAS 15.0

4.1 Summary

This migration guide provides a set of guidelines to migrate the USP Network Authentication System® from versions prior to 14.0 to the latest version 15.0.

In most cases, no actions are required and all changes are done automatically. However, some minor manual changes might be required by the update. Consult the migration guide carefully prior the update and apply any steps required before or after the update.

When upgrading existing installations, please follow the recommended upgrade procedure outlined in the "USP NAS Installation Guide".

If you are updating from a Network Authentication System® Appliance older than version 14.0, please consult also the migration guides for all intermediate versions, as this migration guide only outlines the changes between the new and the previous USP Network Authentication System® version.

4.2 Introduction of SNMP Access Profiles

Starting from this release, SNMP access profiles are being used to store credentials for accessing switches and routers via SNMP for network mapping, monitoring and enforcement (if SNMP MAC authentication is used). SNMP access profiles define the SNMP version to be used as well as the read/write community (in case of Version 1 and 2) or username, passwords and encryption algorithms (in case of version 3). These profiles can be managed at a dedicated location in the WebGUI, and therefore SNMP credentials no longer have to be defined for each netdevice; an SNMP access profile must be chosen instead. Every netdevice which should be monitored by SNMP must be assigned an SNMP access profile. There is no default SNMP community/username/password settings anymore in the global configuration.

SNMP access profile can be given a unique name; if omitted, an auto-generated name based on the stored data is created.

Due to the redesigned user interface for managing these profiles, new SNMPv3 authentication and encryption algorithm combinations are now supported, which increase security and compatibility in communicating with your netdevices.

During USP NAS Appliance update, existing entries are migrated automatically, and SNMP access profiles are created as needed. This applies as well to netdevices which use the global configured credentials in the past.

CSV data imports make use of the new profiles as well: for each record in an import file, it is checked if a profile matching the provided data exists, and it is assigned, or a new profile will be created. Therefore, existing import mechanisms don't need to be adapted. Optional, named SNMP access profiles can be specified directly as a new column in the import file. Please see the dedicated data import specification document for details.

If you use **scheduled scripts** to create netdevice entries in the database, some manual changes might be needed. Please refer to the newly added scrip template `NetdeviceGenerator.jy` to see an example on how this can be used.

RADIUS subnet definitions make use of the new profiles too. This enables the possibility to auto-inventorize netdevices with SNMPv3 credentials configured.

4.3 Changes in the REST API

In the netdevice REST API, the query filter parameter `snmpVersion` has been replaced by `snmpAccessProfileId` which references the assigned SNMP access profile. The response will now contain the fields `snmpAccessProfileId`, `snmpAccessProfileName`, `snmpVersion` (which can now be `SNMPV1`, `SNMPV2C` or `snmpv3`), `snmpAuthenticationAlgorithm` and `snmpEncryptionAlgorithm`.

Therefore, a REST API response for netdevices, which previously looked like this:



```
{
  "id": 1055600,
  "device_name": "cisco250",
  "device_ip": "192.168.100.100",
  "device_class": "SWITCH",
  "errorcode": 0,
  "source": "WEBGUI",
  "inscope": 1,
  "updated": "2024-11-18T11:26:34.653+00:00",
  "created": "2024-11-18T11:24:53.841+00:00",
  "deleted": null,
  "location": "USP Lab",
  "snmpVersion": "V2C",
  "devicetype": "GenericQBridgeMibAdaptor",
  "description": "CBS250-8T-D 8-Port Gigabit Smart Switch"
},
{
  "id": 1056000,
  "device_name": "v3test",
  "device_ip": "1.2.3.4",
  "device_class": "SWITCH",
  "errorcode": null,
  "source": "WEBGUI",
  "inscope": 1,
  "updated": "2024-11-18T14:14:39.278+00:00",
  "created": "2024-11-18T14:14:39.278+00:00",
  "deleted": null,
  "location": null,
  "snmpVersion": "V3_PRIV_AES_SHA512",
  "devicetype": null,
  "description": null
}
```

will now look like in release 15.0:

```
{
  "id": 1086800,
  "device_name": "cisco250",
  "device_ip": "192.168.100.100",
  "device_class": "SWITCH",
  "errorcode": 0,
  "source": "WEBGUI",
  "inscope": 1,
  "updated": "2025-01-06T10:44:44.609+00:00",
  "created": "2025-01-06T07:24:01.525+00:00",
  "deleted": null,
  "location": "USP Lab",
  "devicetype": "GenericQBridgeMibAdaptor",
  "description": "CBS250-8T-D 8-Port Gigabit Smart Switch",
  "snmpAccessProfileId": "9b9f8ele-2239-4599-8d36-94e5ffa3791e",
  "snmpAccessProfileName": "SNMPv2 default profile",
  "snmpVersion": "SNMPV2C",
  "snmpAuthenticationAlgorithm": null,
  "snmpEncryptionAlgorithm": null
}
```




```
},  
{  
  "id": 1089000,  
  "device_name": "v3test",  
  "device_ip": "1.2.3.4",  
  "device_class": "SWITCH",  
  "errorcode": 1,  
  "source": "WEBGUI",  
  "inscope": 1,  
  "updated": "2025-01-06T10:46:04.034+00:00",  
  "created": "2025-01-06T10:40:34.565+00:00",  
  "deleted": null,  
  "location": null,  
  "devicetype": null,  
  "description": null,  
  "snmpAccessProfileId": "728500ae-e051-4ab2-a846-67b0f8acac63",  
  "snmpAccessProfileName": "v3 Test Profile",  
  "snmpVersion": "SNMPV3",  
  "snmpAuthenticationAlgorithm": "SHA512",  
  "snmpEncryptionAlgorithm": "AES128"  
}
```

4.4 Migration of SAB functionality to Java

Some mail-related functionality of the SAB CLI API tool has been migrated into the USP NAS core daemon Java code. As a consequence the following SAB function can no longer be used in custom scripts to send emails:

```
sab monitoring:alerting:send_mail  
sab tools:send_mail
```

4.4.1 Jython Script Mail Interface

Instead of using the SAB commandline tool, it is now possible to send mails using custom Jython scripts. The command for this is:

```
mail.sendMail(String recipient, String subject, String body)  
mail.sendMail(String recipient, String subject, String body, String attachmentFilePath)
```

It will send a mail using the mail server settings configured in the GUI.

4.5 MobileIron integration removed

We removed support for the **MobileIron** MDM solution, a company and product which has been **acquired by Ivanti** and integrated into their "Ivanti Neurons for MDM" solution a few years ago. If by any chance you are still using MobileIron in connection with USP NAS to obtain endpoint inventory details, please contact USP product support, as it might be possible to re-implement this functionality using the scheduled script engine built into USP NAS.