



UNITED SECURITY PROVIDERS

USP Network Authentication System®

Installation 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 Summary

The USP Network Authentication System® (USP NAS) is a network access control solution (NAC) which provides visibility of and secure access to your network. It does this by communicating with network equipment (switches, access points, routers), enumerating the connected endpoints (laptops, desktops, printers, IoT devices and more) and enforcing access control policies based on the endpoint type, user identity and other factors.

This installation guide provides a guideline to install the USP Network Authentication System® (USP NAS) in a virtualized environment.

Note that these instructions are based on USP NAS release 15.x.

The USP NAS Appliance has been tested to run in VMware ESXi, Microsoft Hyper-V and Oracle VirtualBox hypervisors. It has also been observed to work well in Nutanix, Proxmox, KVM/QEMU and other similar virtualization environments. Additionally, it supports running on bare-metal servers of the Dell PowerEdge 6xx series.

To install the USP NAS system, you first need to configure your hardware appliance or your virtual machine to boot from the USP NAS .iso file. After booting from the .iso, select the option "Install appliance operating system" in the bootloader menu. Installation will proceed without needing any user interaction. Partitions and filesystems will be created and the USP NAS System will be installed. The System will then restart automatically and boot the USP NAS operating system.

The network interface of the appliance and the default gateway can be set via the console menu. After completing the initial network setup, you can access the web-based USP NAS GUI using a webbrowser of your choice (Google Chrome, Mozilla Firefox or Microsoft Edge are recommended) via the configured IP address URL `https://X.X.X.X` to continue with the configuration of the USP NAS application.



2 Prepare Virtual Machine

Create a virtual machine image with the following basic settings:

- Type: Linux, Gentoo, 64-bit
- Base memory: 4 GB or more
- Disk: 20 GB or more
- vCPU: 2 Cores or more
- Network card: Virtual Ethernet Adapter (as an example: 192.168.56.1/255.255.255.0)

Here is a best practice overview of the hardware requirements depending on the endpoints for USP NAS.

Table 1: USP NAS Hardware system requirements

	1 - 5000 Endpoints	5000 - 100000 Endpoints
RAM	8 GB	16 GB
Processors cores	2-4	8
Harddisk size	50 GB	140 GB

2.1 Prepare Network cards for virtual machine

For a quick and easy implementation of USP NAS, we recommend using a virtual machine variant with a single network card. It should be configured as a bridge to your existing network, so that network devices like switches can communicate with USP NAS.

Go to the networks settings of the desired hypervisor system and create a new virtual network cards or use an existing network card.

USP NAS can use one or multiple network adapters, e.g. to facilitate the separation of management and data traffic. In our example, we use a single network card only.

When booting for the first time, and only one network card is present, USP NAS will attempt to obtain an IP address via DHCP; this can later be changed in the console menu (see below). If more than one interfaces are present, they must be configured manually in the console menu.

In the following example, we will use the network 192.168.56.1/24 and assign the IP address 192.168.56.10 to USP NAS.

2.2 Configure Firewall Rules

The following ports and protocols are used to ensure communication with USP NAS. We distinguish between mandatory and optional ports. Please ensure that your corporate firewall allows communication on these ports, and that routes to the necessary subnets are properly set up.

2.2.1 Mandatory ports



Protocol	Port	Direction	Remarks
SSH	22	Incoming	Admin CLI access, HA synchronization between two USP NAS instances
SNMP	161	Bidirectional	Communication between netdevices and USP NAS
SNMP Traps	162	Bidirectional	Communication between netdevices and USP NAS
HTTPS	443	Incoming	Admin WebGUI access
RADIUS Authentication	1812	Bidirectional	Communication between netdevices and USP NAS, HA status check between two USP NAS instances
RADIUS Accounting	1813	Bidirectional	Communication between netdevices and USP NAS

2.2.2 Optional ports

Protocol	Port	Direction	Remarks
SMTP	25 or custom	Outgoing	E-Mail (alerts, scheduled reports)
DNS	53	Outgoing	Domain name resolving
NTP	123	Outgoing	Time synchronization
SNMP	161	Incoming	Status monitoring by external monitoring systems
SNMP Traps	162 or custom	Outgoing	Monitoring/Alarming (e.g. Nagios, Incinga)
HTTPS	443	Outgoing	Vendor code updates (standards-oui.ieee.org)
Syslog	514 or custom	Outgoing	Log forwarding (e.g. Syslog, Splunk, Elastic, OpenSearch)
RADIUS Authentication	1812	Outgoing	Communication with external RADIUS server (e.g. NPS)
RADIUS Accounting	1813	Outgoing	Communication with external RADIUS server (e.g. NPS)
LDAPS	636 or custom	Outgoing	Communication with external LDAP server (e.g. Active Directory) for Web GUI/SSH login

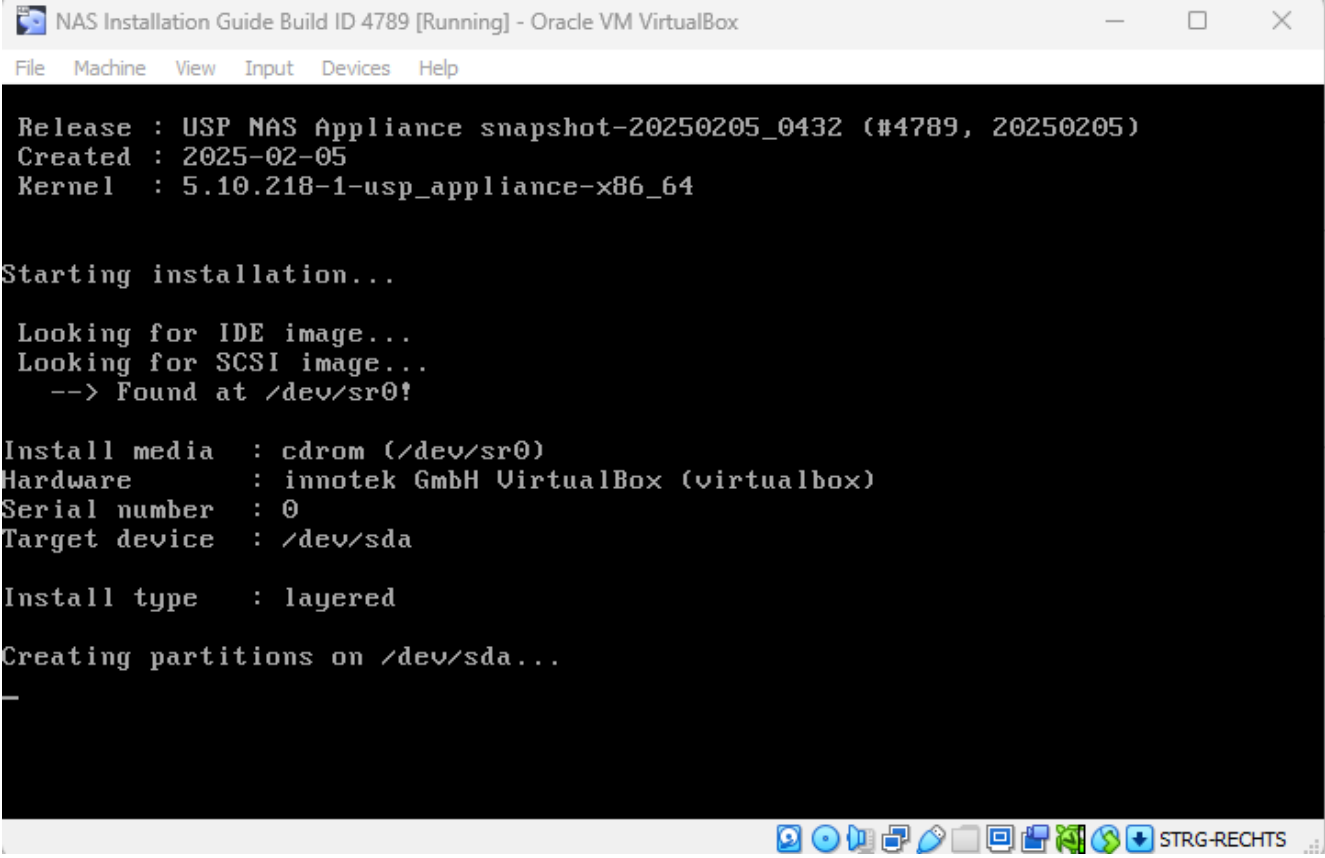


3 Start installation

Download the desired USP NAS ISO image from the [USP Service Platform](#) (if you have a United Security Providers AG customer account), or from a specific download link provided by your USP NAS partner/distributor.

Choose the image as optical drive medium in the VM settings. After the virtual machine is prepared and the USP NAS ISO file is selected as boot drive, you can start the virtual machine.

On the console you should see the following installation prompt:



```
NAS Installation Guide Build ID 4789 [Running] - Oracle VM VirtualBox
File  Machine  View  Input  Devices  Help

Release : USP NAS Appliance snapshot-20250205_0432 (#4789, 20250205)
Created  : 2025-02-05
Kernel   : 5.10.218-1-usp_appliance-x86_64

Starting installation...

Looking for IDE image...
Looking for SCSI image...
--> Found at /dev/sr0!

Install media : cdrom (/dev/sr0)
Hardware      : innotek GmbH VirtualBox (virtualbox)
Serial number : 0
Target device : /dev/sda

Install type  : layered

Creating partitions on /dev/sda...
_
```

USP NAS will install itself automatically and reboot. Once the installation is completed, the following login prompt will be displayed on the console:



```
NAS Installation Guide Build ID 4789 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
* Checking your configfile (/etc/syslog-ng/syslog-ng.conf) ... [ ok ]
* /var/lib/syslog-ng: correcting mode
* Starting syslog-ng ... [ ok ]
* Starting cronie ... [ ok ]
* Bringing up interface enp0s3
* Caching network module dependencies
* 192.168.0.1/24 ... [ ok ]
* Starting postfix ... [ ok ]
* Starting snmpd ... [ ok ]
ssh-keygen: generating new host keys: RSA ECDSA ED25519
* Starting sshd ... [ ok ]
* Initializing USP NAS Database server ... [ ok ]
* Starting USP NAS Database server ... [ ok ]
* Starting USP NAS Core ...
* Importing JRE truststore ... [ ok ]
* Initializing MAS database ... [ ok ]
* Migrating database schema ... [ ok ]
* Preparing first profiler import ... [ ok ]
* Generating GUI keystore ... [ ok ]
* Starting USP NAS WebUI ... [ ok ]
* Starting local ... [ ok ]

USP NAS Appliance snapshot-20250205_0432 (#4789) localhost
localhost login: _
```




4 Basic system setup using the console menu

Login with the user "console" and password "console" to access the USP NAS console main menu. The console menu provides a variety of options to configure basic USP NAS system settings.

Here you can configure the network interface of the USP NAS appliance.

```

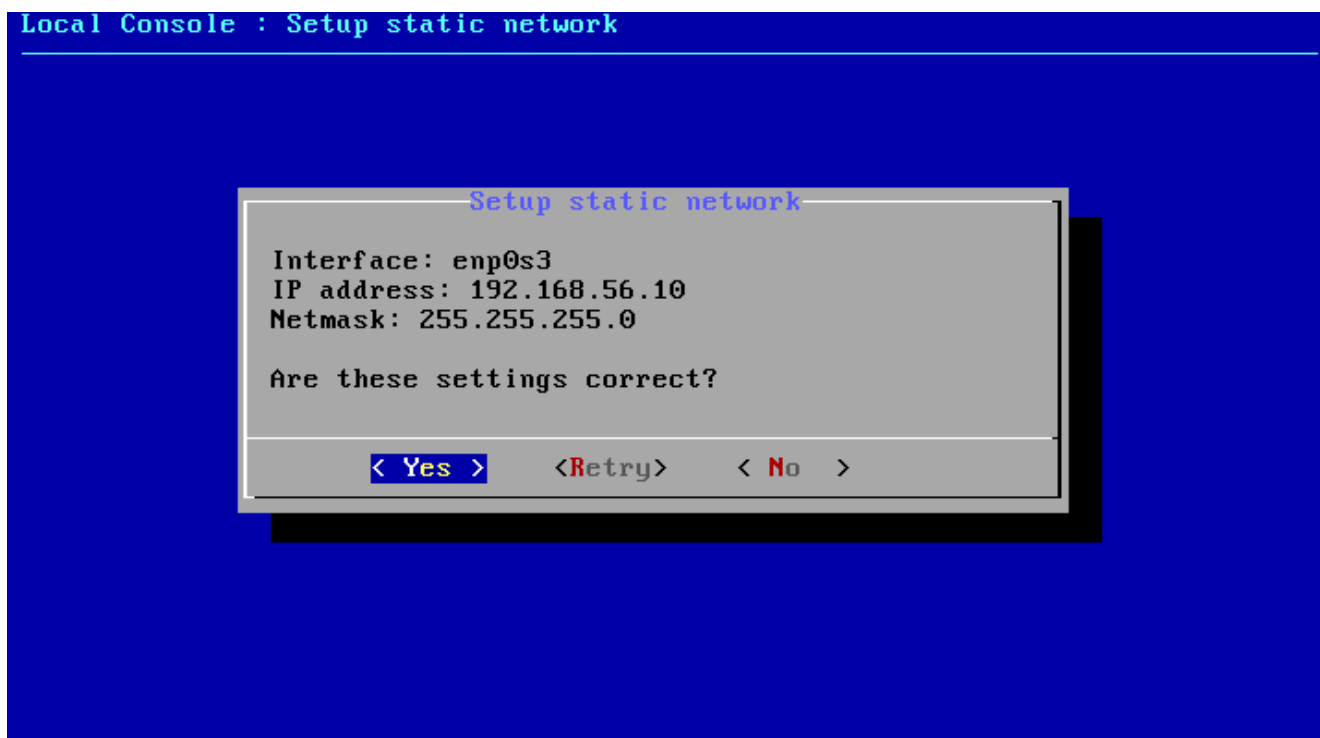
Main menu
USP NAS Appliance snapshot-20250205_0432 (#4789, 20250205)

Please access the configuration web front-end using the following URL(s):
https://169.254.52.120

E Show appliance release information
H Start local DHCP server
N Setup static network
C Setup network using DHCP
F Show network interfaces and addresses
G Set default gateway (DHCP, enp0s3, )
D Set DNS server ( )
S Show routing table
P Reset root password
W Reset WebGUI admin
O Show installed software
B Reboot

<Select>          < Exit >
```

- Select "(N) Setup static network" and press enter
- Select "Primary interface"
- Configure the IP address 192.168.56.10
- Configure the netmask 255.255.255.0
- Confirm with "Yes"



You also might want to define a default gateway to ensure packets get routed correctly.

- Select "(G) Set default gateway"
- Configure the gateway IP address 192.168.56.1
- Configure the gateway interface (usually the same as used for the primary interface)
- Confirm with "Yes"

Exit the console menu.

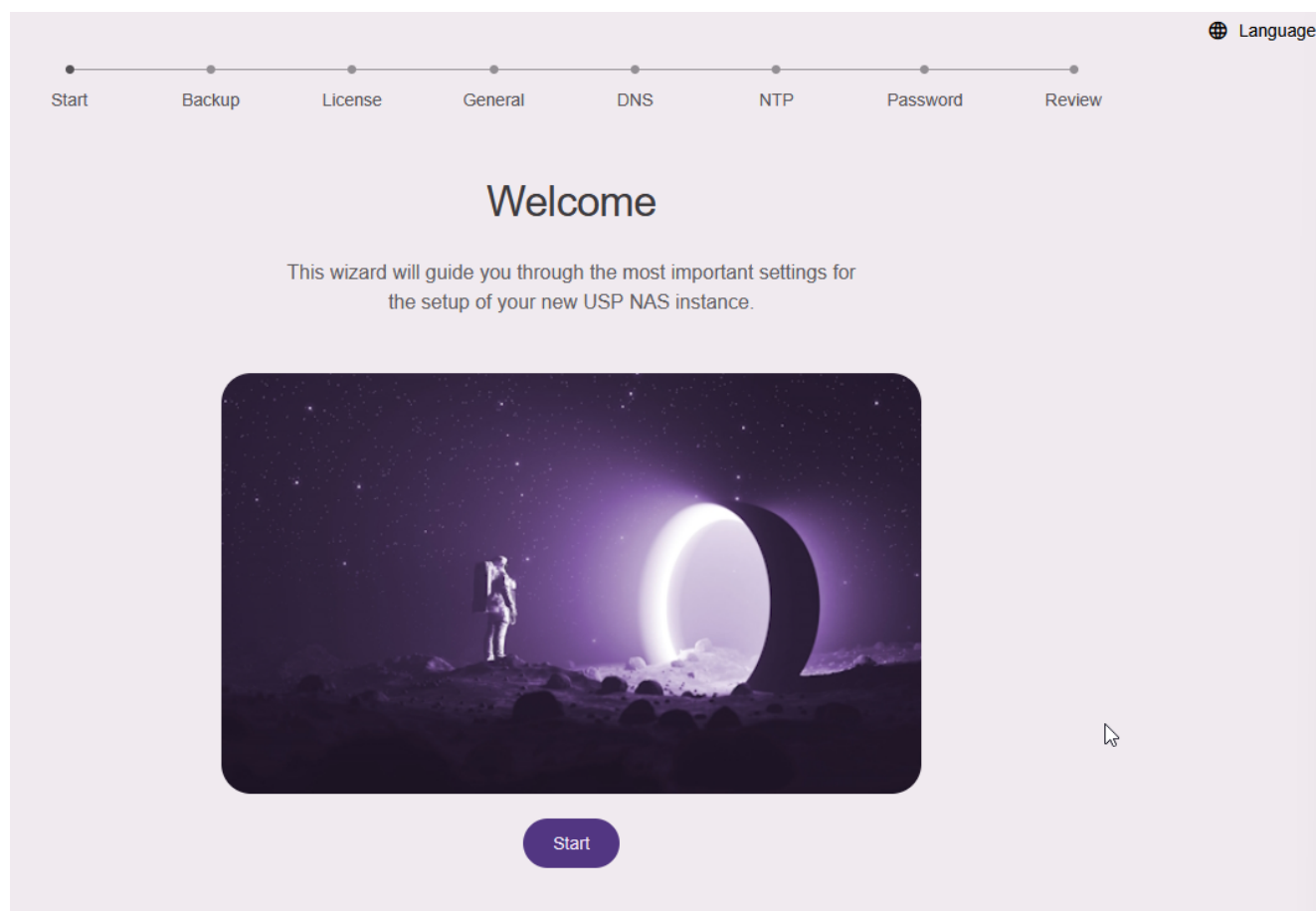


5 USP NAS Admin WebGUI

USP NAS can now be accessed at <https://192.168.56.10/> via browser from your client.

5.1 USP NAS first-time Setup Wizard

The setup wizard, part of the modern Web GUI, will appear when you try to log in after a fresh installation of USP NAS. Click *Start* to continue.



If you have a backup file from a previous USP NAS installation, you can restore it by clicking on "Browse for file". Otherwise, go ahead and click on "Skip" in case of a new USP NAS Installation.

Import a valid USP NAS license file by clicking on "Browse for file" to continue the setup procedure.

In the next section "General Information" you can put additional information and set the hostname for your USP NAS device, for example:

- Hostname: nac01.example.com
- System label: NAC Test
- System location: Datacenter ZH
- Contact person: Max Mustermann



In the next section, you can add the IP addresses of your DNS servers. You can also add them later on the network configuration page of the Web GUI.

In the next section, you can add the IP addresses or hostnames of your NTP servers used for time synchronization. You can also add them later on the network configuration page of the Web GUI.

In the penultimate section, you must change the password of the default user *nasadmin*. Enter the new password twice to confirm and click *Change Password*.

Finally, in the section "Review your configuration", you can check all settings entered and confirm with "Apply Changes":

Start Backup License General DNS NTP Password Review

Review your configuration

Make sure the configuration is correct before you apply the changes. This step might require a reboot. After that you have to login again.

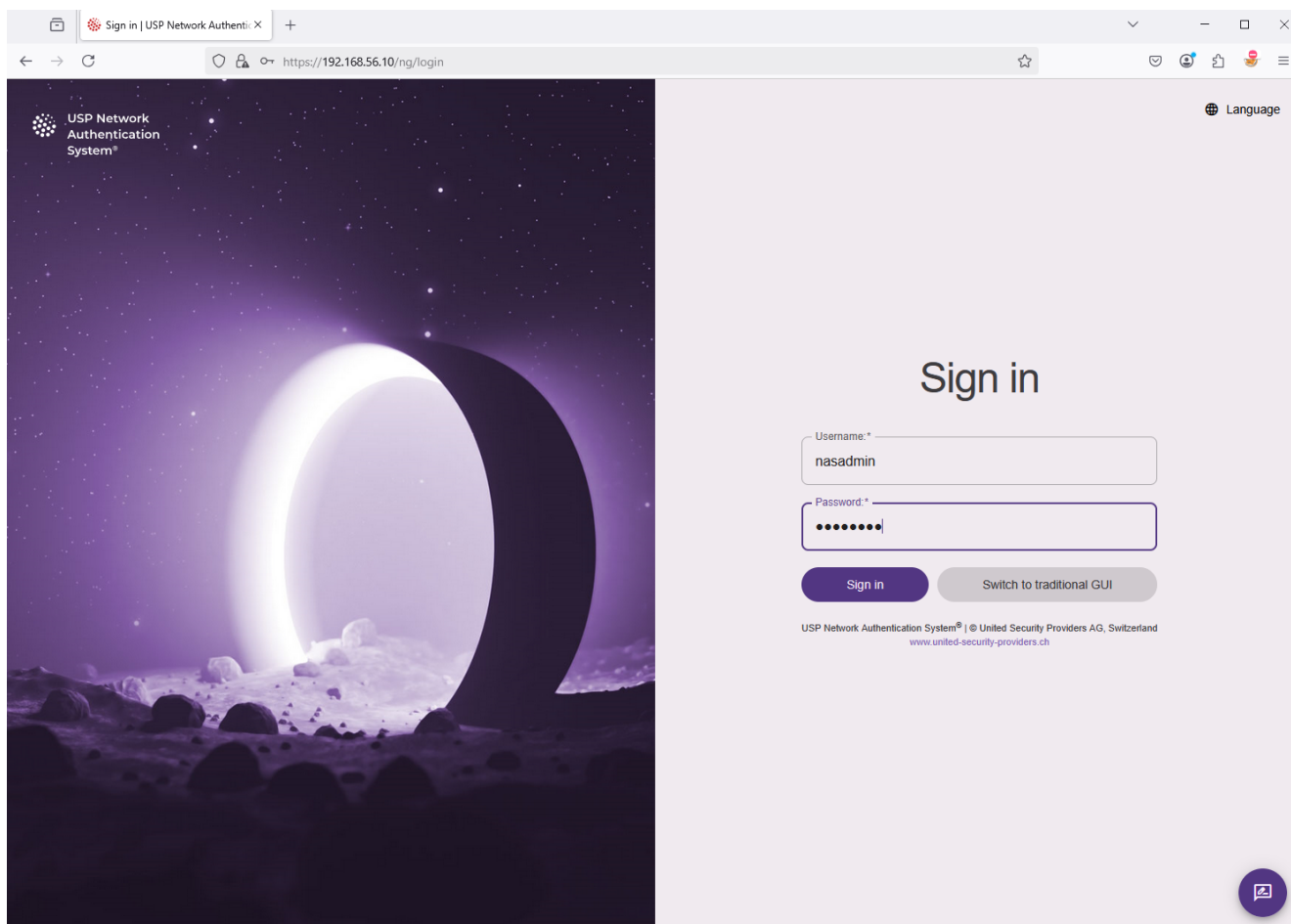
License	TESTLAB, USP	4/25/24 - 9/11/51
Hostname	localhost.localdomain	DNS Not configured
System label	LAB	NTP Not configured
System location	Datacenter ZH	New Password Password has been set.
Contact person	Max Mustermann	

Back Apply changes

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The USP NAS Webserver will restart now, this can take up to one minute.

The login mask will appear. Use the username "nasadmin" to log in with your newly defined password.

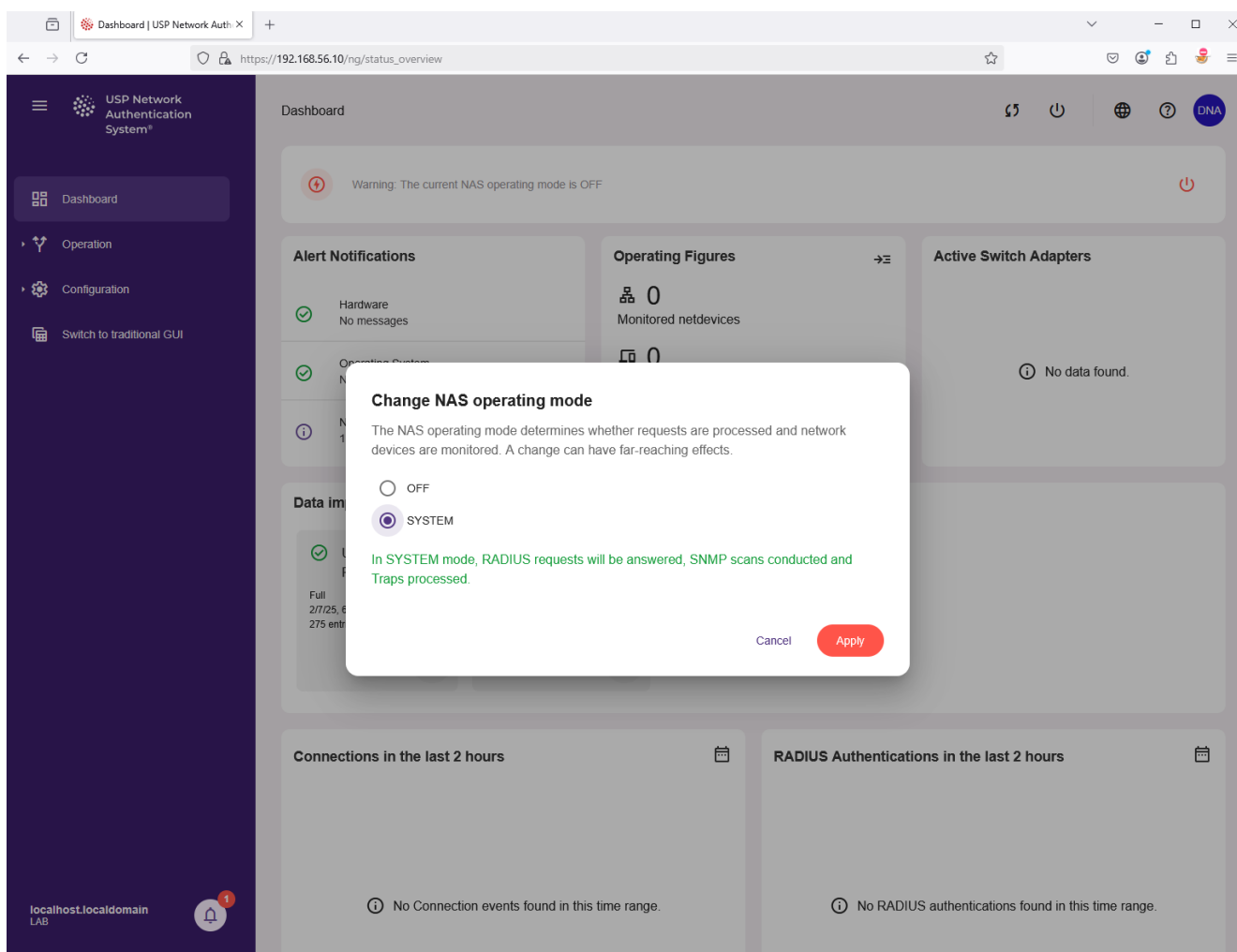


6 Turn on the operating mode

Press the red power button at the top of the USP NAS Web GUI to activate the NAS operation mode.



Select the menu item "SYSTEM" and click on "Apply" to confirm:



Then click again on "Apply" to confirm twice:

Change NAS operating mode

Should the operating mode really be changed to SYSTEM?



You are now ready to register netdevices like network switches and inventory endpoints like laptops and printers in USP NAS.

Don't forget to take a snapshot of the VM and give it an appropriate label, e.g. "Clean Setup" so you can easily return to this state for a fresh installation.



7 Register a Netdevice

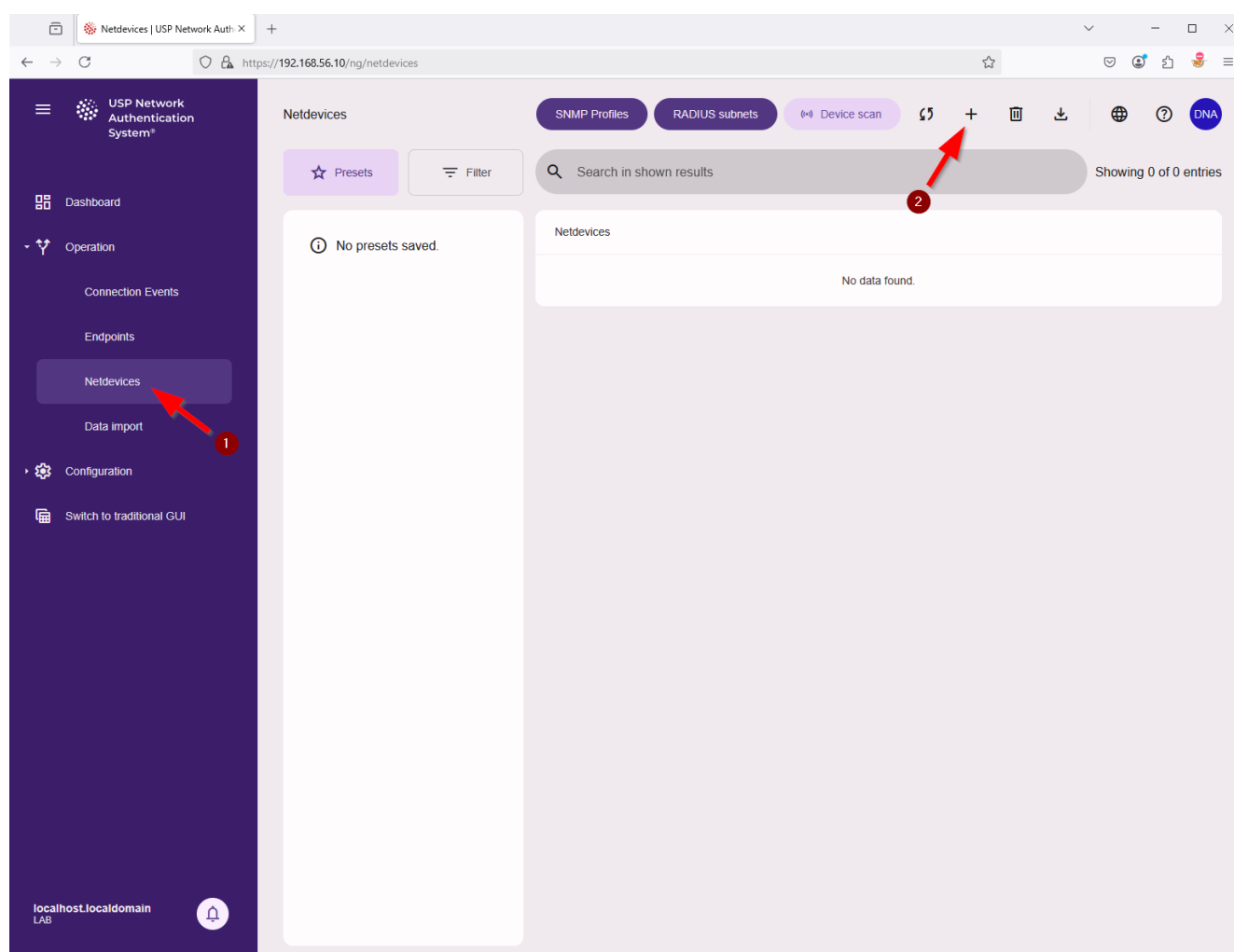
USP NAS communicates with network devices like switches via SNMP and RADIUS.

- SNMP is used to scan a switch for learning about its properties like vendor, model, location, number of ports, connected endpoint devices etc. USP NAS supports SNMPv1, SNMPv2c and SNMPv3. A switch can also send notifications to USP NAS (called SNMP traps) in case a cable is plugged into or unplugged from a port. When access control policies are enabled, USP NAS can use SNMP write commands on the switch to shut down or reconfigure the VLAN of a port based on the defined policy. As this is an asynchronous operation, we generally recommend using RADIUS for access control.
- RADIUS is used for authentication and authorization when plugging in an endpoint device to a port of the switch. USP NAS support authenticating devices via 802.1X with X.509 certificates, as well as MAC authentication bypass (MAB) in case a device does not support certificates.

USP NAS can use either SNMP or RADIUS protocols or both to communicate with a switch.

Here is a brief description on how to add a new switch device to USP NAS.

In the main menu on the left side, navigate to "Operation" → "Netdevices" and on the top click the plus + sign.



In the next window "Register netdevice" add all necessary information for the new switch, for example:

- Type: Switch



- DNS Name: switch-lab
- IP Address: 192.168.1.125
- Access Control: System default
- Monitoring status: Monitored
- RADIUS Accounting: Disabled
- SNMP access profile: select an available SNMP access profile.

A default SNMP profile with version 2c and community strings `public/private` is pre-configured. Additional profiles can be added via the button *SNMP Profiles*.

Make sure that SNMP is activated on the switch and that the corresponding community strings (a kind of shared-secret, although not encrypted) or username and passwords (in the case of SNMPv3) are configured.

Register netdevice

Type* Switch	DNS Name* switch-lab
IP Address* 192.168.1.125	Tenant
Access Control System default	Monitoring status Monitored
RADIUS Accounting Disabled	SNMP access profile SNMPV2C read/write (pu**ic/pr***te)

Cancel Save

USP NAS will now start scanning the new netdevice shortly.

You should see the information "Unknown / Waiting for scan". Wait until the status changes to "No netports defined" in yellow.

7.1 Configure Netports

A *missing netports* warning means that we now need to configure the netports of this switch, that is, the uplinks/downlink ports of this switch, so USP NAS knows which ports must be ignored for access control.

Click on info button (Netdevice details) for this Netdevice. Then in the tab on top click on *Ports* to see the list of interfaces. The action menu at the end of each line lets you define this port as a netport.



IF Index	IF Name	IF Alias	# Endpoints	Netport	RADIUS/802.1X	PVID/ACL Filter ID	Assigned Portgroups
1	gi1	uplink	7	-	-	1	
2	gi2	-	2	-	-	1	
3	gi3	-	1	-	-	1	
4	gi4	-	2	-	-	1	
5	gi5	-	-	-	-	1	
6	gi6	-	-	-	✓	1	
7	gi7	-	-	-	-	1	
8	gi8	-	-	-	✓	1	
7000	loopback1	-	-	-	-	-	
8000	User Defined Port 1	-	-	-	-	-	
20000	Logical-int 1	-	-	-	-	-	

USP NAS will scan the switch again, and the status indicator in the overview will change to green.

In case of a communication error, you should check the SNMP settings of the switch and the SNMP access profile in USP NAS, as well as any firewall rules that might block SNMP traffic (port 161 and 162).

7.2 Configure SNMP Traps

To receive SNMP traps from the switch, you need to configure the switch to send traps to the IP address of the USP NAS appliance.

It is also necessary to define the SNMP trap community. USP NAS currently only supports SNMPv1/SNMPv2c traps.

The SNMP trap community is a global setting, which can be configured on the application configuration page (navigate to *Configuration* → *Application* → *SNMP*). The default value is `trapcom`. Changing this value requires a restart of the USP NAS core service. This is indicated by the notification icon in the bottom left corner.

7.3 Configure RADIUS authentication

If your switches support 802.1X authentication, you can optionally configure RADIUS authentication on the switch to identify and authenticate endpoints connected to the switch. This process differs from switch to switch, so please consult the documentation of your switch vendor. It generally involves the following steps:



1. Configure a RADIUS backend server on the switch, pointing to the IP address of the USP NAS appliance. RADIUS communication is encrypted, so you need to configure a shared secret on the switch and in USP NAS. In USP NAS, the shared secret can be configured by navigating to *Configuration* → *Application* → *RADIUS/802.1X*.
2. Configure the switch to use 802.1X port authentication on the ports where endpoints are connected. Often, port based 802.1X authentication needs to be enabled in general, and then specifically for each port. The setting is sometimes called "Administrative Port Control" and should be set to "Auto". Some switches require then connecting the defined RADIUS server to the port based 802.1x authentication schema. If the switch supports MAB (MAC Authentication Bypass), you can also configure this as a fallback mechanism.

USP NAS can either use an external RADIUS server like Windows NPS, or make use of its built-in RADIUS server based on FreeRADIUS. To configure the RADIUS server, navigate to *Configuration* → *Application* → *RADIUS/802.1X* and tick the corresponding checkboxes or fill the necessary parameters in the form. We recommend that the setting "Automatically add EAP users to the inventory if the certificate is valid" is set enabled, so that clients with a valid certificate are auto-inventoried.

You also need to upload one or more valid CA certificates to the USP NAS appliance, which are used to validate the client certificates. This can be done by navigating to *Configuration* → *Certificates* and clicking the + sign on top of the page. Here you can import certificates in PEM format. Make sure that the checkbox *RADIUS CA Certificate* is ticked.

These changes will require a restart of the USP NAS core service, which can be done on the *Maintenance* page.

7.4 Self-registration of RADIUS-enabled netdevices

Switches and access points which are configured for RADIUS authentication can be self-registered in USP NAS. This means that they will automatically appear in the list of netdevices in USP NAS after they have sent their first RADIUS request to authenticate a client device.

This is controlled through a setting called *RADIUS subnets* where you can define the networks (subnets) a netdevice is allowed to self-register from. By default, all networks are allowed. Navigate to *Operation* → *Netdevices* → *RADIUS subnets* to fine-tune this setting. An SNMP access profile can be linked to a RADIUS subnet to allow automated SNMP scanning of the netdevice once it has self-registered.

8 Observe connected Endpoints

Once a switch has been scanned successfully, connected endpoints are listed in the tab "Associated Endpoints" on the netdevice details page. A list of all detected and/or inventoried endpoints is available by navigating to "Operation" → "Endpoints".

USP NAS will scan all netdevices every 20 minutes by default. This can be changed in the application configuration page.

9 Observe Connection Events

When switches send a trap to USP NAS, the endpoint status will be updated immediately and a *connection event* will be logged.

To see all connection events, navigate to "Operation" → "Connection Events".

To test this functionality properly, it is advisable to disconnect and reconnect a physical port/cable on the corresponding switch.

You should then see the corresponding events under *Connection Events* after a few seconds.



Connection Events | USP Network X

https://192.168.56.10/ng/event_overview

USP Network Authentication System®

Dashboard

Operation

Connection Events

Endpoints

Netdevices

Data import

Configuration

Switch to traditional GUI

Events

Presets

Filter

Search in shown results

Showing 5 of 5 entries

No presets saved.

Connection Events

☐		2/18/25, 7:44:59 PM - Connect (SNMP MAC) - 148473651684	Unregistered - Cisco Systems, Inc - switch-lab [gi4]	
☐		2/18/25, 7:44:43 PM - Disconnect (SNMP MAC) - 148473651684	Cisco Systems, Inc - switch-lab [gi4]	
☐		2/18/25, 7:44:29 PM - Connect (SNMP MAC) - 148473651684	Unregistered - Cisco Systems, Inc - switch-lab [gi4]	
☐		2/18/25, 7:41:28 PM - Disconnect (SNMP MAC) - 00005e000101	ICANN, IANA Department - switch-lab [gi4]	
☐		2/18/25, 7:41:28 PM - Disconnect (SNMP MAC) - 148473651684	Cisco Systems, Inc - switch-lab [gi4]	

Clicking on the connection event entry will reveal a detailed view of the event.

Please note that it might take a while for a switch to register traffic from a new endpoint and update the information in its bridge table. USP NAS will retry several times to get the information from the switch in case an empty status is returned.

Connections events can also be viewed for a specific netdevice. Navigate to "Operation" → "Netdevices" and click on the info button (Netdevice details) for this Netdevice. In the tab on top click on "Associated Connection Events" to see the related events.

Netdevice details | USP Network X

https://192.168.56.10/ng/netdevice_details/switch-lab

USP Network Authentication System®

Dashboard

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Netdevices

Data import

Configuration

Switch to traditional GUI

Netdevice details switch-lab

Device scan

Reset

Delete

Information

Edit Data

Ports

Associated Endpoints

Associated Connection Events

Connection Events

☐		2/18/25, 7:44:59 PM - Connect (SNMP MAC) - 148473651684	Unregistered - Cisco Systems, Inc - switch-lab [gi4]	
☐		2/18/25, 7:44:43 PM - Disconnect (SNMP MAC) - 148473651684	Cisco Systems, Inc - switch-lab [gi4]	
☐		2/18/25, 7:44:29 PM - Connect (SNMP MAC) - 148473651684	Unregistered - Cisco Systems, Inc - switch-lab [gi4]	
☐		2/18/25, 7:41:28 PM - Disconnect (SNMP MAC) - 00005e000101	ICANN, IANA Department - switch-lab [gi4]	
☐		2/18/25, 7:41:28 PM - Disconnect (SNMP MAC) - 148473651684	Cisco Systems, Inc - switch-lab [gi4]	



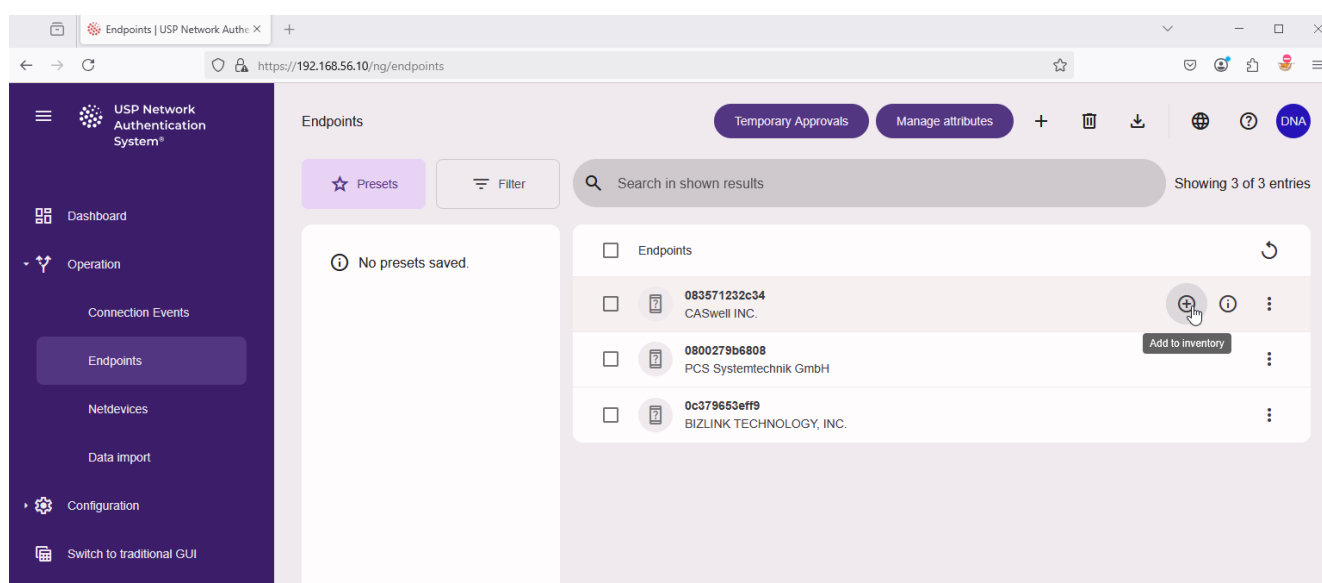
10 Add Endpoints to the Inventory

USP NAS has a built-in inventory system to keep track of endpoints (to be) connected to the network (client device like a laptop, desktop PC, printer, IoT device, ...). If an endpoint is inventoried, it can be used to enforce access control policies, e.g. to allow or deny access to the network based on the endpoint type.

By default, USP NAS will not enforce any access control policies for unknown endpoints, but this could be changed once a sufficient number of endpoints are inventoried.

There are several possibilities to add an endpoint to the USP NAS inventory.

- In the main menu on the left side, navigate to "Operation" → "Endpoints", mouse-over the desired entry and click the plus + sign labelled "Add to inventory".



- In the main menu on the left side, navigate to "Operation" → "Connection events", find the event with the endpoint you want to add, mouse-over the entry and click the plus + sign labelled "Add to inventory".
- In the main menu on the left side navigate to "Operation" → "Netdevices". Click on the info button (Netdevice details) for the desired netdevice. In the tab on top, click on "Associated Endpoints". Select the endpoint and click the plus (+) sign labelled "Add to inventory".



Netdevice details | USP Network Authentication System

Netdevice details switch-lab

Device scan Reset Delete

Information Edit Data Ports Associated Endpoints Associated Connection Events

Endpoints	IF Index	IF Name	VLAN	Status	
☐ 0c379653eff9 BIZLINK TECHNOLOGY, INC.	2	gi2	1	ACTIVE	
☐ 0800279b6808 PCS Systemtechnik GmbH	2	gi2	1	ACTIVE	
☐ 083571232c34 - computer-lab MAC Identity - CASwell INC.	3	gi3	1	ACTIVE	

In the popup dialog "Add Endpoint to inventory" add all necessary information for this new endpoint and click on "Add to inventory" to confirm, for example:

- MAC Address: 083571232c34
- DNS Hostname: computer-lab
- Location: Zurich
- Owner: Max Mustermann



Add Endpoint to inventory

☒ MAC Identity ☐ EAP Identity LAN ☐ EAP Identity WLAN

MAC Address*

083571232c34

☒ Authorized

DNS Hostname

computer-lab

Location

Zurich

Owner

Max Mustermann

Assettype

Asset Class

Tenant

Cancel

Add to inventory



The endpoint will now be inventoried and can be used for access control policies. Creating access control policies is outside the scope of this guide, please consult the general USP NAS documentation for more information.

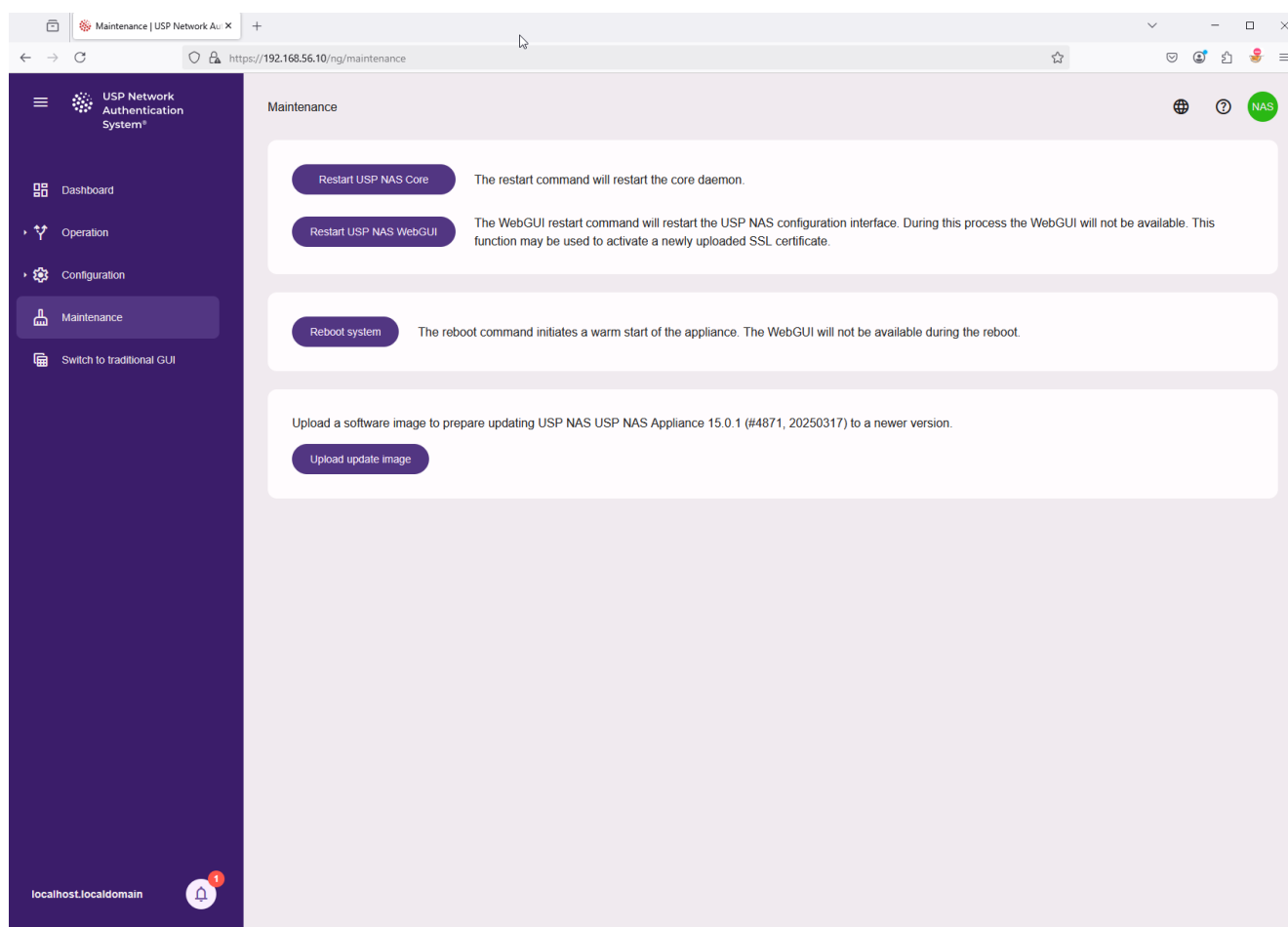


11 Upgrade USP NAS to a new release

Please note: The system update can be executed both through the modern and traditional Web GUI. We recommend using the modern Web GUI.

USP NAS update images can be downloaded from the [USP Service Platform](#) using your customer account.

To install the update, navigate to "Maintenance" in the main menu on the left side:



Click on "Upload update image" and select the USP NAS software image file from local computer, for example: `nas-15.0.1-4871-x86_64-update.img`. The upload of the software image starts directly.



Once the file is uploaded, you can click on button "Apply software update" to start the installation. This might take a while to complete. The user interface will not be usable, and the USP NAC service will not process any authentication requests or execute netdevice scans during this time.

Please note: The USP NAS Appliance will be rebooted automatically during the update process.