

User Guide - License Activation of BAT Controller Virtual

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How to set up the license

Collect information from the Command Line

Run the command `show licenses`

Copy and note:

- Serial number
- Device-ID

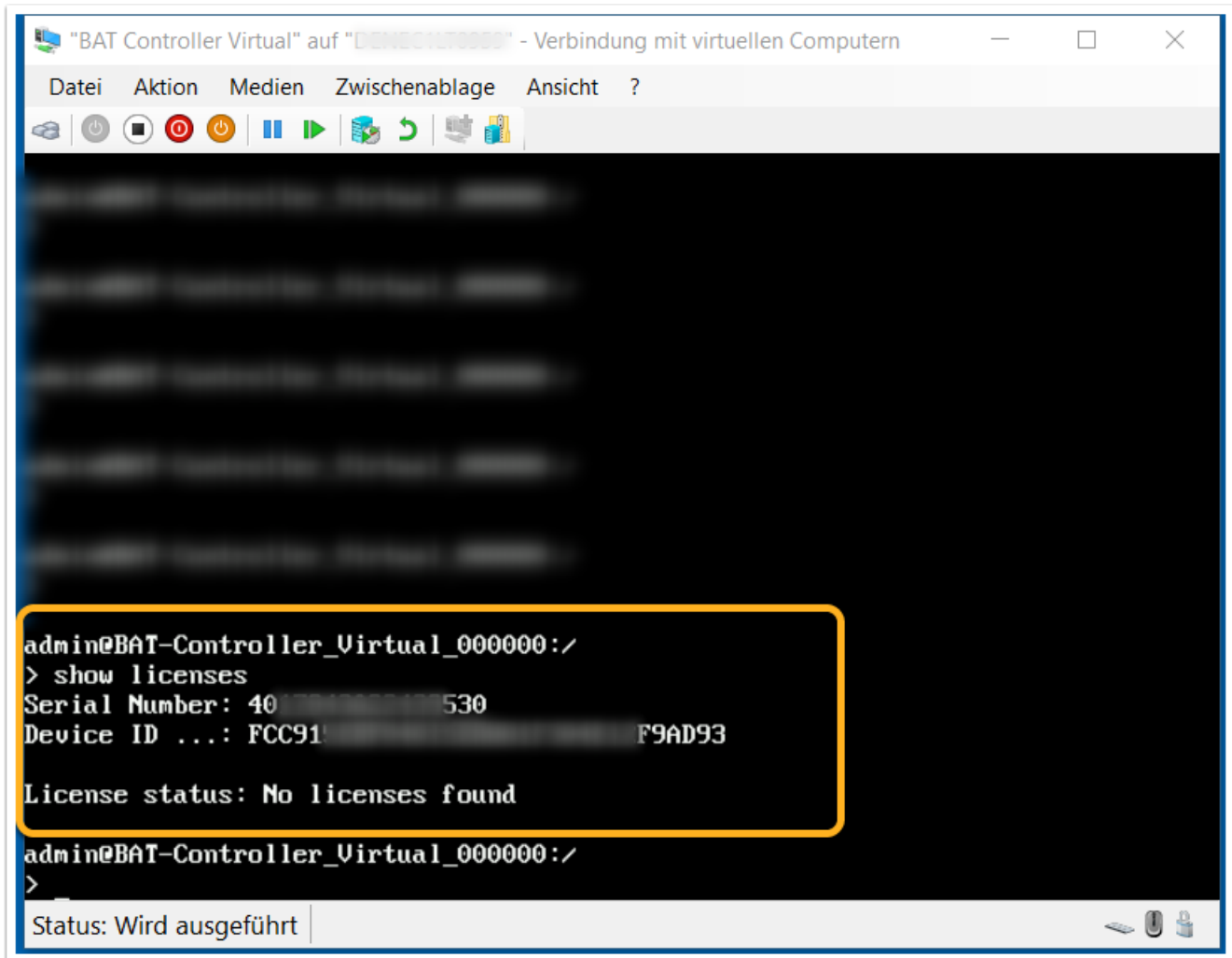


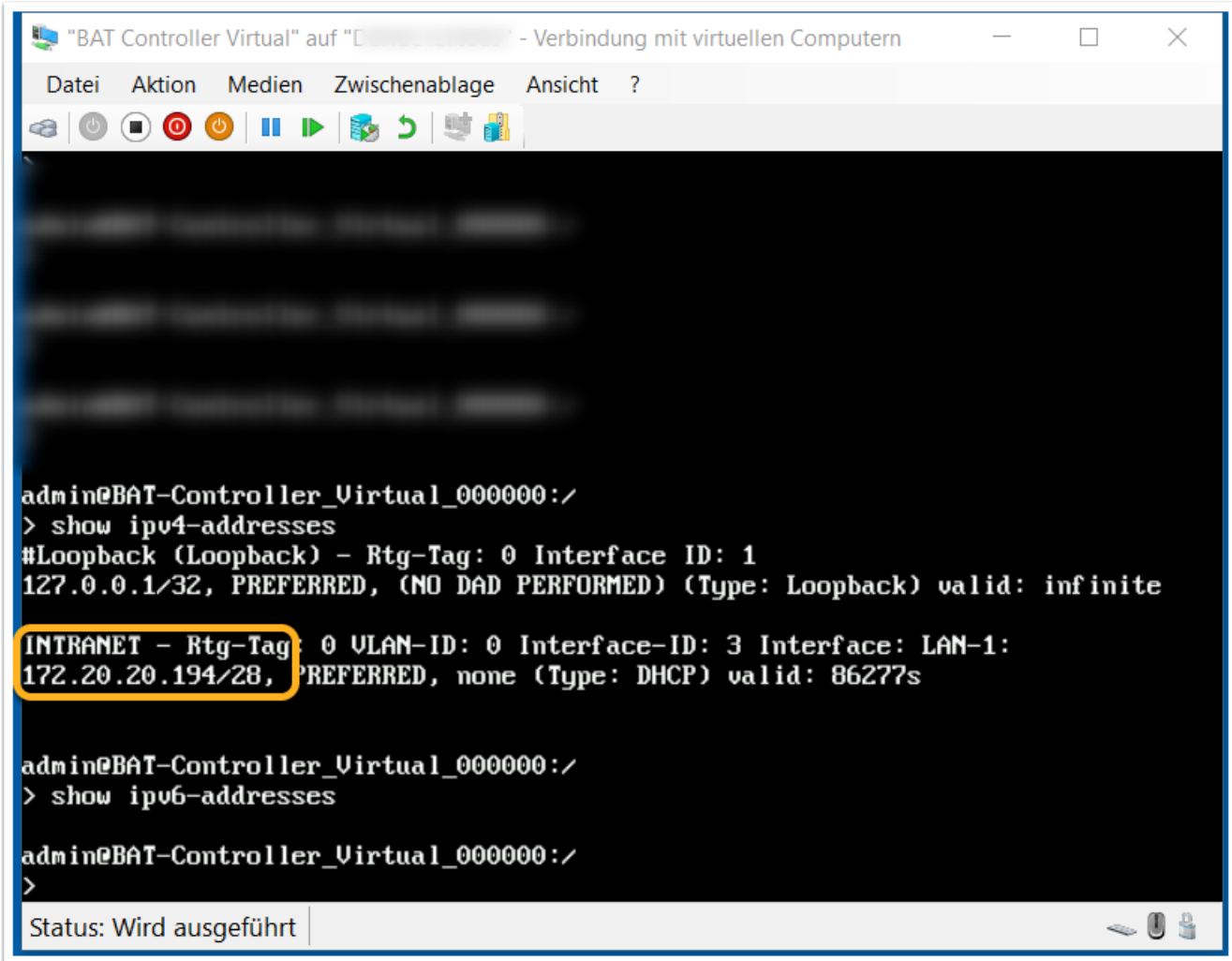
Figure 1: Reading out Device ID and Serial Number

Find IP Address from the Command Line

You can use the following commands to find the IP addresses on the **INTRANET** interface:

```
show ipv4-addresses
show ipv6-addresses
```

So in this example the BAT Controller Virtual is assigned a 172.20.20.194 IPv4 address, which is the default HyperV range and only accessible from the PC that hosts the virtual machine.



```
"BAT Controller Virtual" auf "C:\..." - Verbindung mit virtuellen Computern
Datei  Aktion  Medien  Zwischenablage  Ansicht  ?
[Icons]

admin@BAT-Controller_Virtual_000000:/
> show ip4-addresses
#Loopback (Loopback) - Rtg-Tag: 0 Interface ID: 1
127.0.0.1/32, PREFERRED, (NO DAD PERFORMED) (Type: Loopback) valid: infinite
INTRANET - Rtg-Tag: 0 VLAN-ID: 0 Interface-ID: 3 Interface: LAN-1:
172.20.20.194/28, PREFERRED, none (Type: DHCP) valid: 86277s

admin@BAT-Controller_Virtual_000000:/
> show ip6-addresses

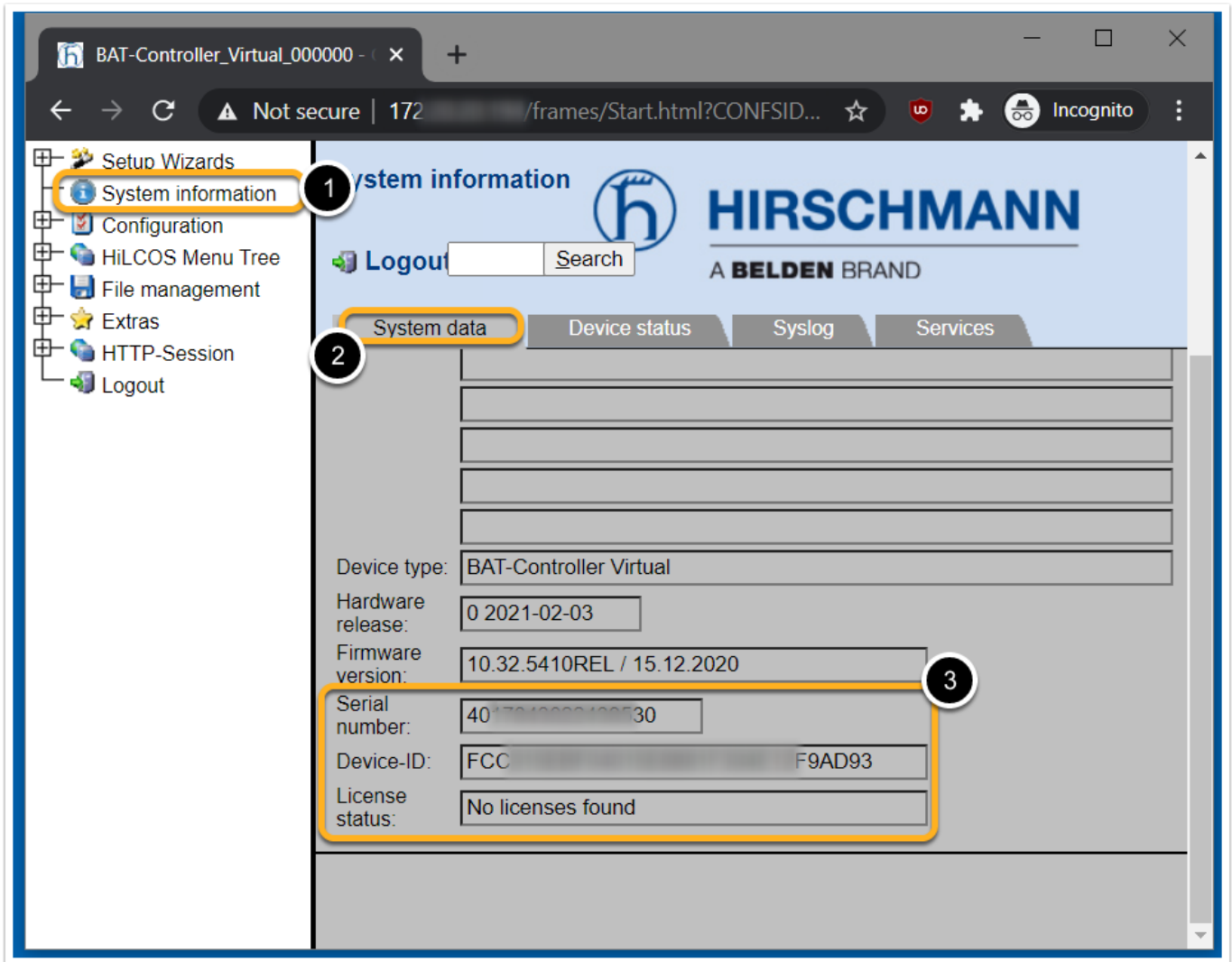
admin@BAT-Controller_Virtual_000000:/
>

Status: Wird ausgeführt
```

Collect information from the Web-Interface

Copy and note:

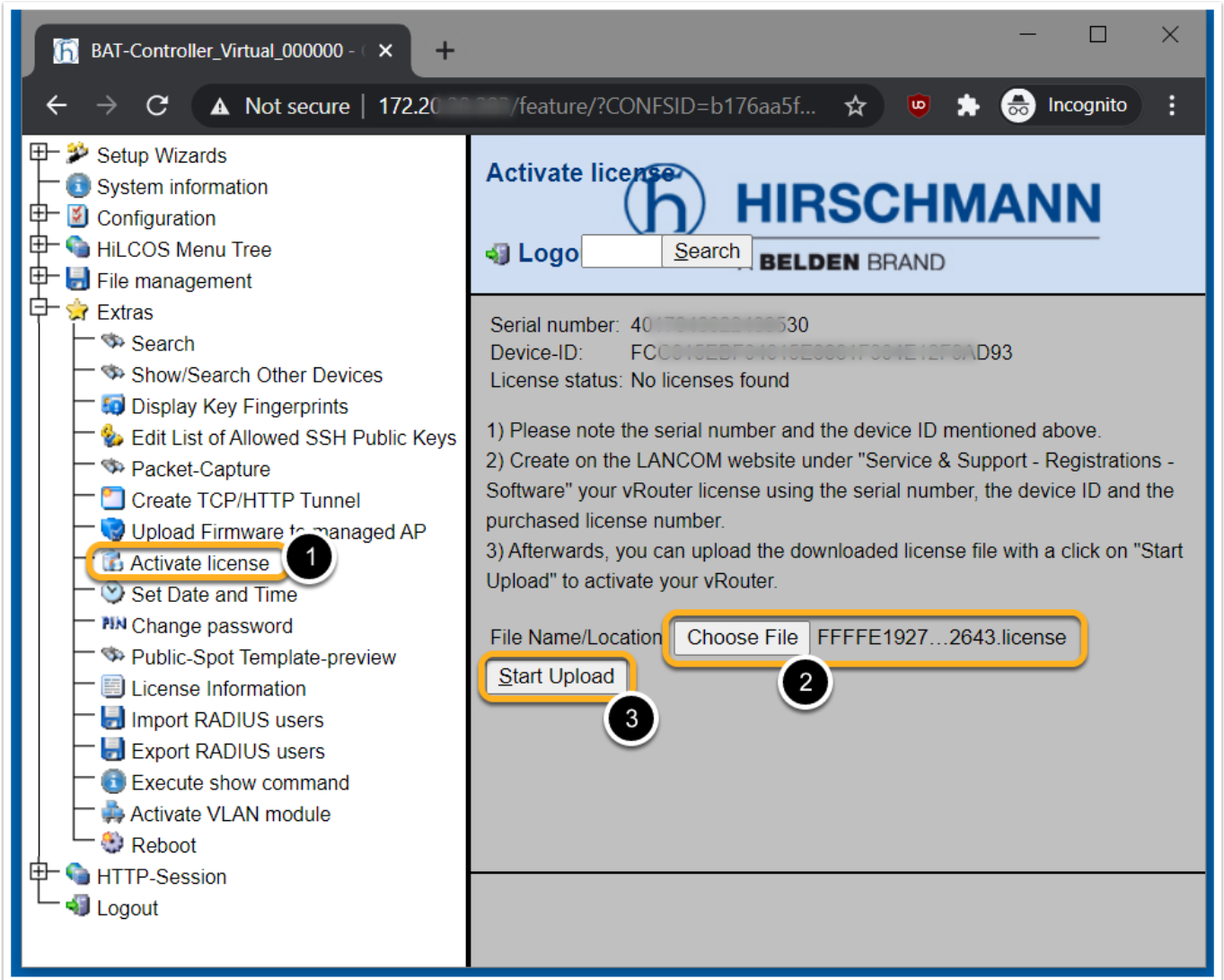
- Serial number
- Device-ID



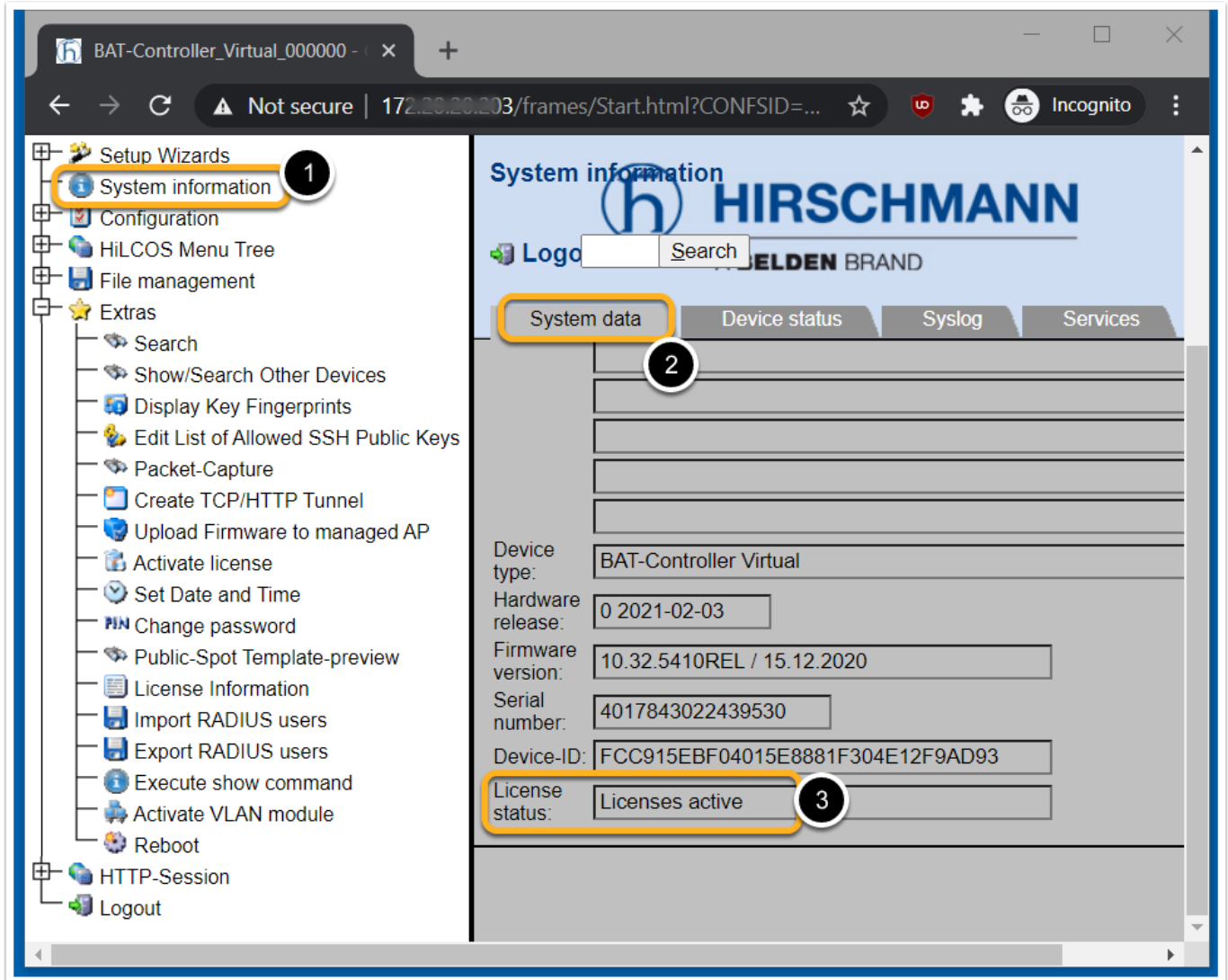
Activate License

Upload the license file you were given by Hirschmann.

The Controller will restart automatically afterwards.



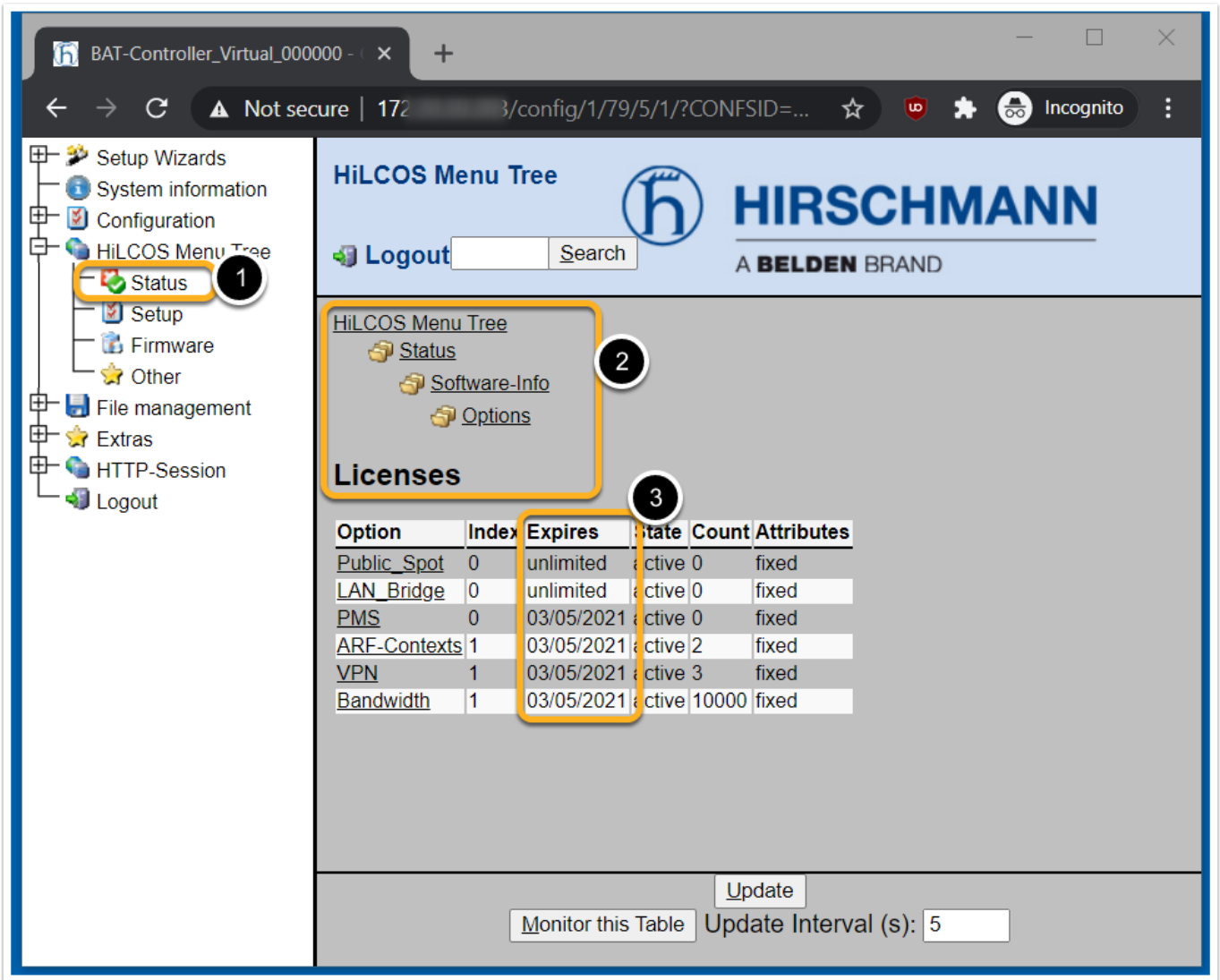
Verify the Successful License Activation



Check the Expiration Date of the Demo License

If you received a demo license you can check the expiration date here.

The format is in European format: 03/05/2021 refers to the 3rd of May in 2021.



The screenshot shows the HiLCOS web interface. On the left is a navigation menu with 'Status' highlighted (callout 1). The main content area has a 'HiLCOS Menu Tree' section with 'Status', 'Software-Info', and 'Options' (callout 2). Below this is a 'Licenses' table (callout 3) with the following data:

Option	Index	Expires	State	Count	Attributes
Public_Spot	0	unlimited	active	0	fixed
LAN_Bridge	0	unlimited	active	0	fixed
PMS	0	03/05/2021	active	0	fixed
ARF-Contexts	1	03/05/2021	active	2	fixed
VPN	1	03/05/2021	active	3	fixed
Bandwidth	1	03/05/2021	active	10000	fixed

At the bottom of the table area, there is an 'Update' button and a 'Monitor this Table' checkbox with an 'Update Interval (s):' input field set to 5.

Moving and Resetting Machines

The licenses are bound to the **Serial Number** and **Device ID** of the BAT Controller Virtual as mentioned in Figure 1: Reading out Device ID and Serial Number. These are bound to the UUID in VMWare and Hyper-V. This means that you must be careful in the following scenarios, otherwise your license will not be active any longer.

Exporting and Importing Virtual Machines

VMWare as well as Hyper-V allow to export and import virtual machines. The intention behind these mechanisms is to provide a way to configure the BAT Controller Virtual to a certain degree and then export it as a template. This template can then be used to create multiple copies of the previously exported BAT Controller Virtual. When performing the import (creating a copy) step be sure to select the option to assign a new **UUID**. This is necessary for the BAT Controller Virtual to generate a new **Serial Number** and **Device ID**. With these new values an additional license can be requested for the imported machines. This allows to simplify the steps of setting up a redundancy cluster.

Moving Virtual Machines

Moving virtual machines is usually performed to switch the virtual machine from one host to another host without duplicating it. This can for example be useful for host server replacement scenarios or for load balancing reasons. When performing this step please select the option to keep the **UUID** of the **VMWare** or **Hyper-V** virtual machine as is, without changing it. This will ensure that the license is still valid after moving the virtual machine.

Resetting Virtual Machines

The BAT Controller Virtual **Serial Number** and **Device ID** are generated the first time the virtual machine is powered up. When utilizing the snapshot functionality of the virtual host be sure to only take snapshots **AFTER** the first complete boot. This will ensure that, whichever snapshot you revert to later, the BAT Controller Virtual will keep its license activated.

When you revert to any such snapshot before the license is installed you can just install the license again as explained in this guide.

Resetting the BAT Controller Virtual

When you perform a **config-reset** of the BAT Controller Virtual software through its interfaces (web interface, command line interface or LANConfig) the activation of the license will persist.

Changelog

- *2021-07-07: Added chapter about moving and resetting virtual machines*
- *2021-02-03: Initial document release*