HMI firmware upgrade procedure

Overview

The StageSmarts HMI application is downloaded and installed on a client computer, multiple clients can exist within the same network.

The firmware of the connected units must be upgraded for the HMI to work, the communication protocol is completely different from the older web server application.

All network communications and discovery functions are handled by the IPV6 protocol. IPV4 addresses of the connected units can still be used but they do not matter for the communication within the HMI application to work.

The application does not need a DHCP server to work and can be used on managed and unmanaged networks. The application also works on networks with DHCP servers running and even mixed networks can be used.

A DHCP server is however needed to give IP addresses to units with older firmware for the initial update to the new communication protocol services.

Application installation

Download the application from the link provided to you from Stage Smarts. If you do not have a download link you can request one at the Stage Smarts website.

There are versions for **macOS**, **windows** and **linux** available.

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macOS

1. Download the application.
2. Install the application on your computer.
3. Launch the application.

Since this application is not distributed by the App Store you may get a warning on initial launch of the application..

1. Right click on the icon and select *OPEN*.

Get more information here: https://support.apple.com/en-gb/guide/mac-help/mh40616/mac

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Windows

1. Download the application.
2. Unzip the folder.
3. Open the folder and locate the StageSmarts-HMI.exe file.
4. Launch the application.

Since the certification is ongoing for this early release the windows version is not delivered as an installer. If you get a warning from the operating system when launching do the following:

1. Select *MORE* information.
2. Select *RUN ANYWAY*.

Linux

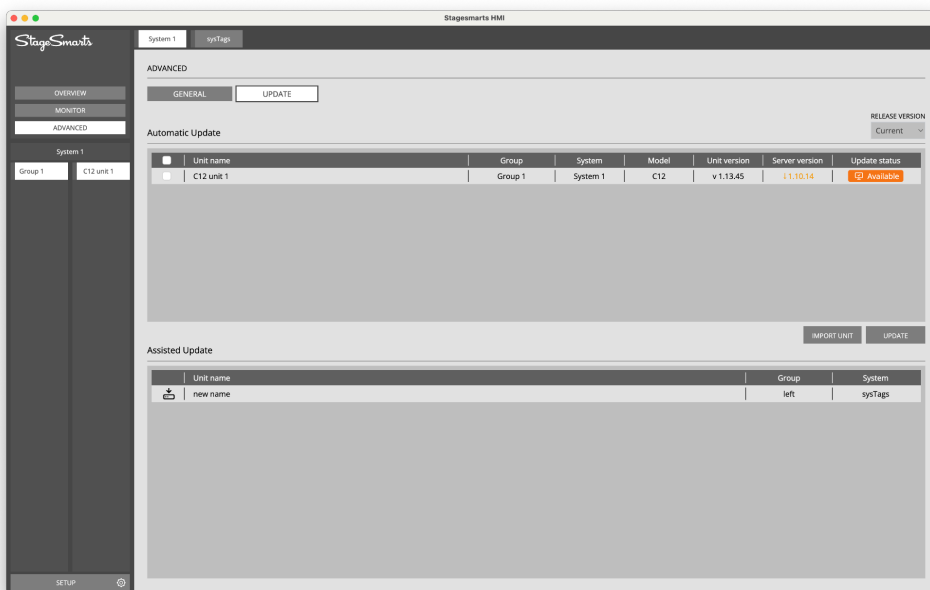If you are a Linux user you most likely know how to do this anyway……

Firmware upgrade

Connect the units that will be updated to the same network as the client computer. Units with older firmware will need a DHCP server on the network to get the IPV4 addresses of the units to be accessible from the HMI application.

The client computer must have access to the internet to be able to download the firmware updates to the HMI application.
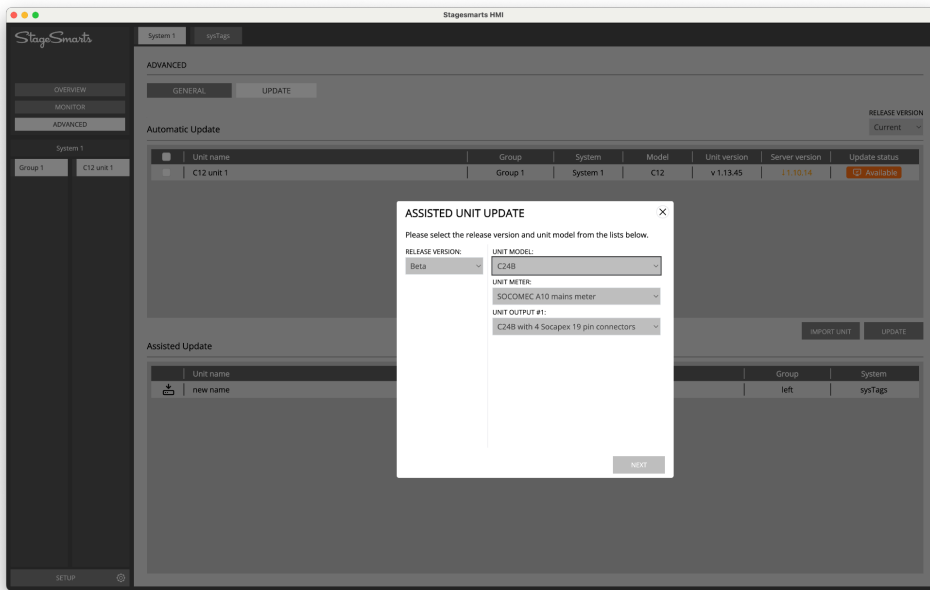
Assisted update

1. Select *ADVANCED* to go to the advanced view.
2. Select *UPDATE*.
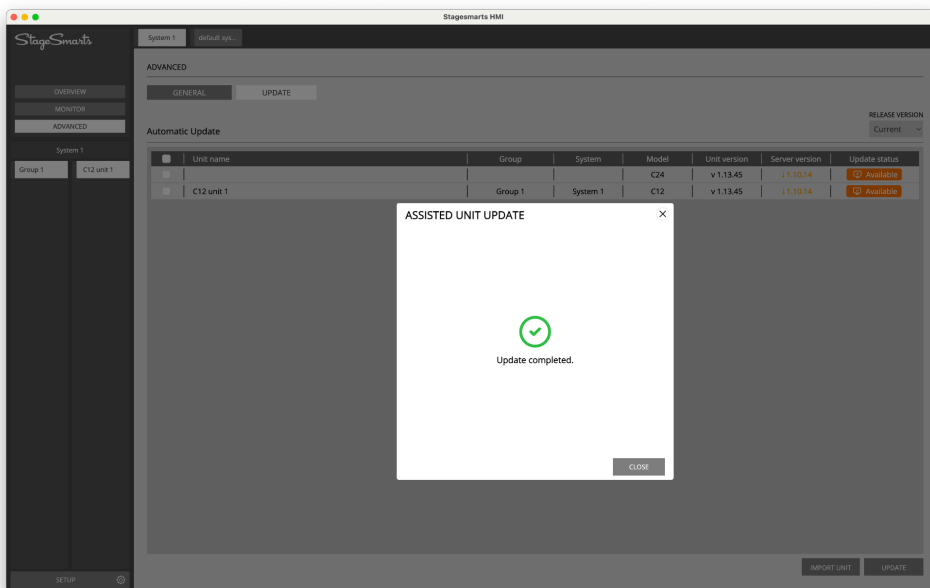3. Select the update *ICON* for the unit in the Assisted update list.

4. The IPV4 address of the unit will be displayed. Select *NEXT*.
5. Select *CURRENT* release version with the dropdown list.
6. Select the configuration of the unit with the dropdown lists.
    6.1. Unit Model
    6.2. Unit Meter
    6.3. Unit output configuration

For the C72tv there are multiple choices for the output configuration of the unit, one for each output bay. These can be reconfigured at any stage in the HMI setup menu for the units.

7.   Select *NEXT*. The import and firmware update runs.

8.   The unit will **reboot** at the end of the update process.

9.   When the update has been completed the following message will appear.
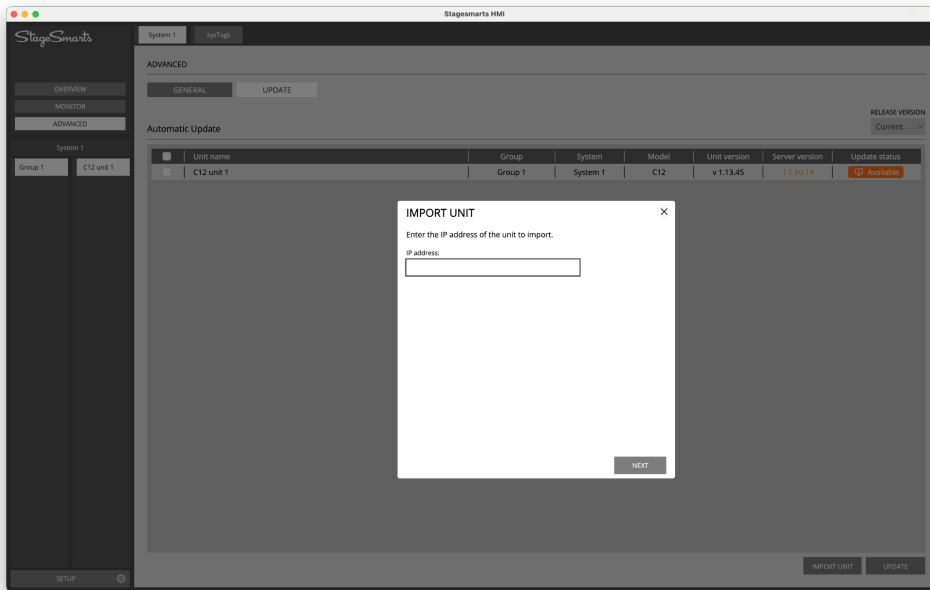

10.   **Done!** The unit can now be used in the new application system.

Import unit

Use a LAN-scanner application or the DHCP routers router-tables to retrieve the IPV4 addresses of the connected units that need an firmware update..
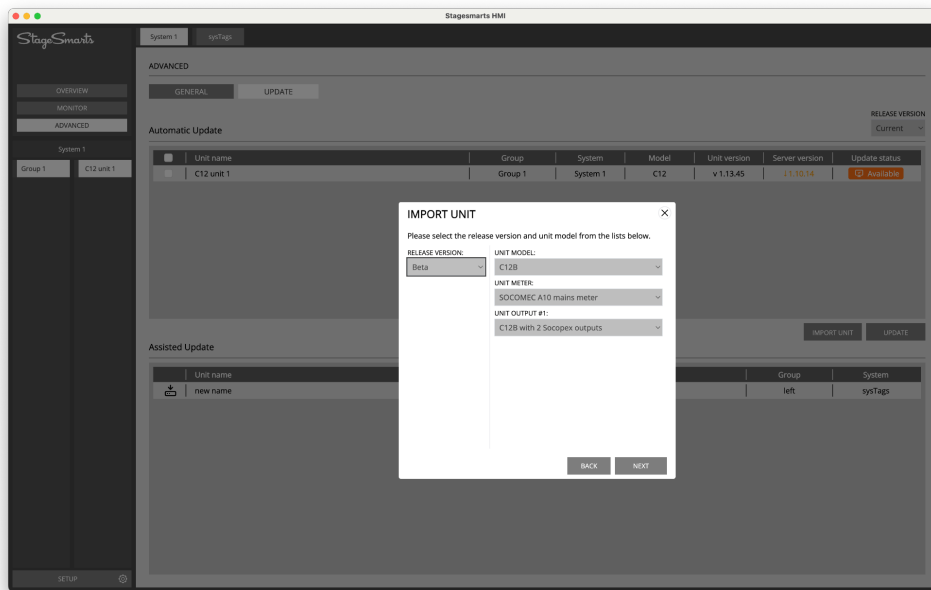
1. Select *ADVANCED* to go to the advanced view.
2. Select *UPDATE*.
3. Select *IMPORT UNIT*. Enter the IPV4 address for the unit to be updated.
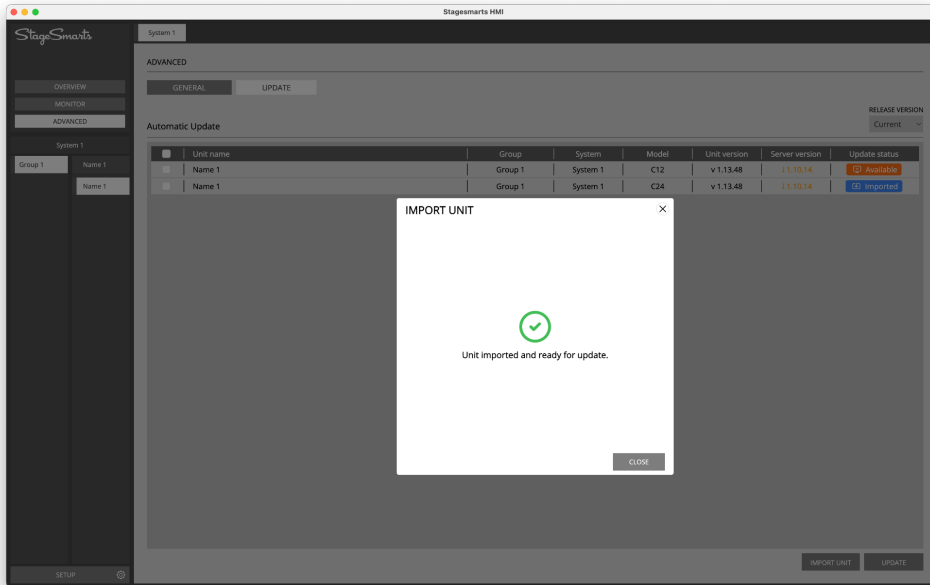

4. Select *NEXT.*

5. Select *CURRENT* release version with the dropdown list.
6. Select the configuration of the unit with the dropdown lists.
    6.1. Unit Model
    6.2. Unit Meter
    6.3. Unit output configuration

For the C72tv there are multiple choices for the output configuration of the unit, one for each output bay. These can be reconfigured at any stage in the HMI setup menu for the units.

7. Select *NEXT*. The import process runs.

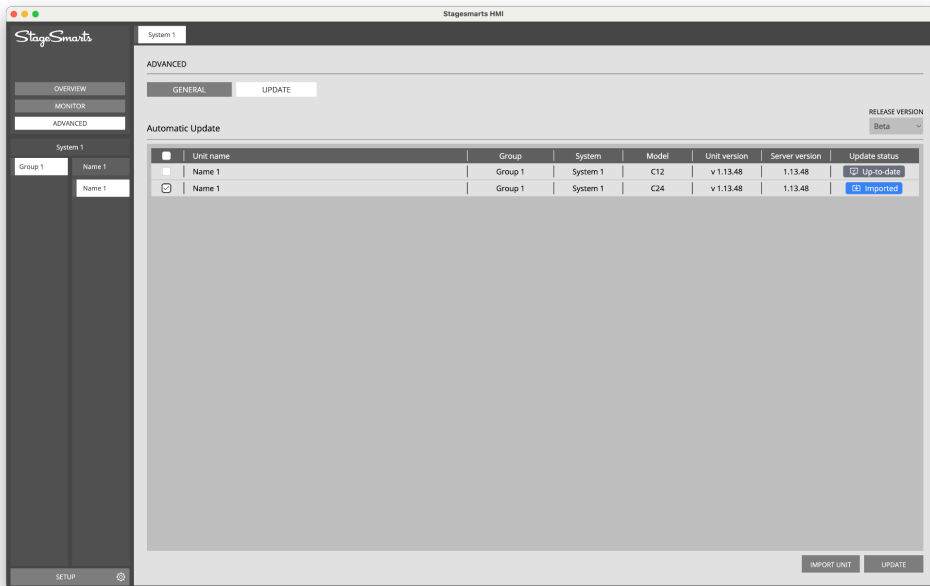8.   When the import has been completed the following message will appear.

9.   Select **CLOSE**, the import is now complete. Proceed with an automatic update of the unit.
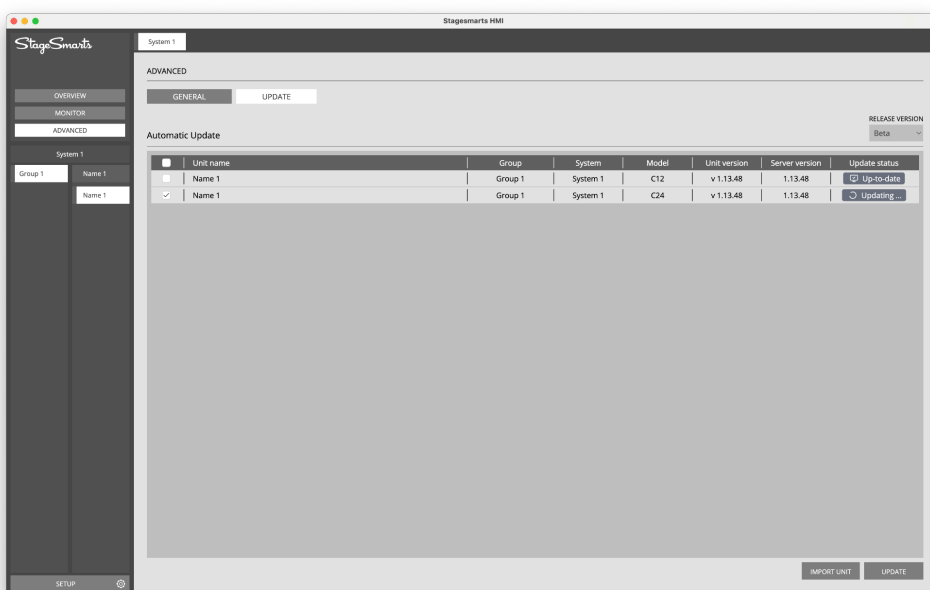
Automatic update

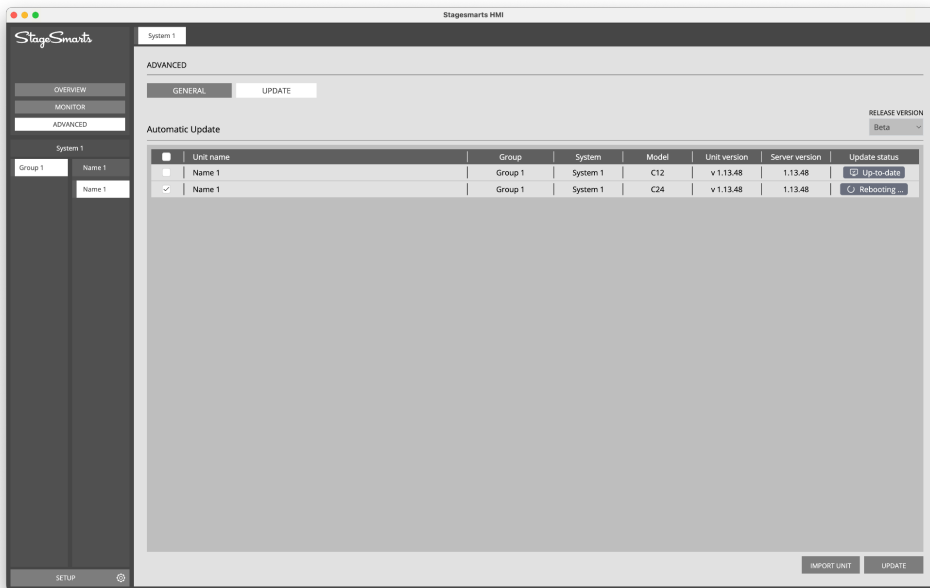The automatic update is the normal update process for unit firmware.

1. Select *ADVANCED* to go to the advanced view.
2. Select *UPDATE*.
3. Select *CURRENT* release version with the dropdown list.
4. Select the units to be updated with the *checkboxes*. Multiple units can be updated simultaneously.

5. Select *UPDATE* in the bottom right corner.
6. Update will run for selected units.

7. Units will **reboot** after the completed update.

8. Update is **done!**