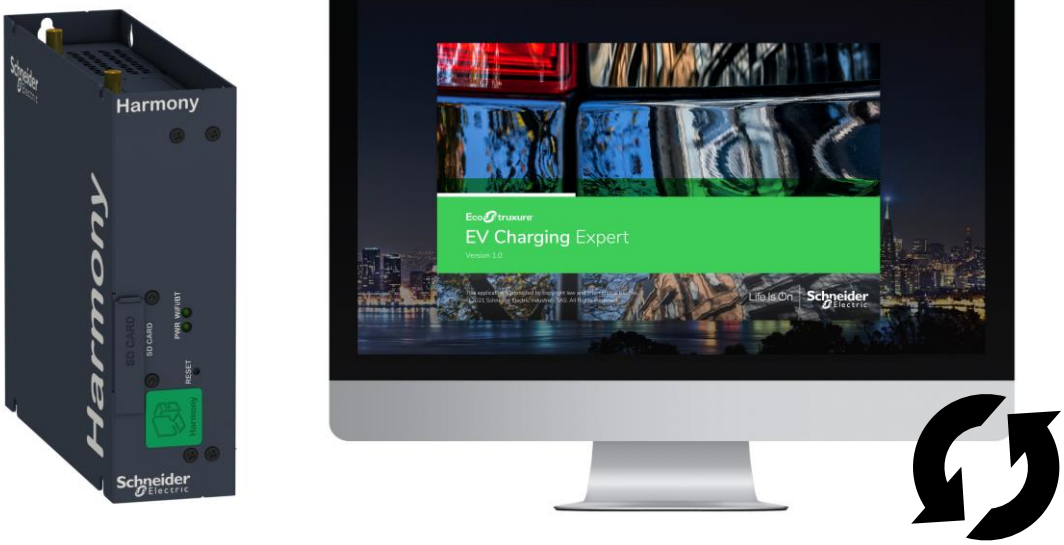
EcoStruxure™ EV Charging Expert

Migration guide

01/2025



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As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.

About this guide

Document scope

The purpose of this guide is to provide technical migration information to update EcoStruxure EV Charging Expert from 5.5 version to 6.0 version. This new version provide more cybersecurity, a new way to manage authentication locally and improve EcoStruxure EV Charging Expert functionals.

Related documents

Title of documentation	Reference number
User guide for EcoStruxure EV Charging Expert with version 5 (English)	DOCA0163EN
User guide for EcoStruxure EV Charging Expert with version 6 or upper (English)	DOCA0358EN

You can download these technical publications and other technical information from our website at https://www.se/en/download

Safety information

Important information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

PLEASE NOTE

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation and has received safety training to recognize and avoid the hazards involved.

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MIGRATION INTERFACE

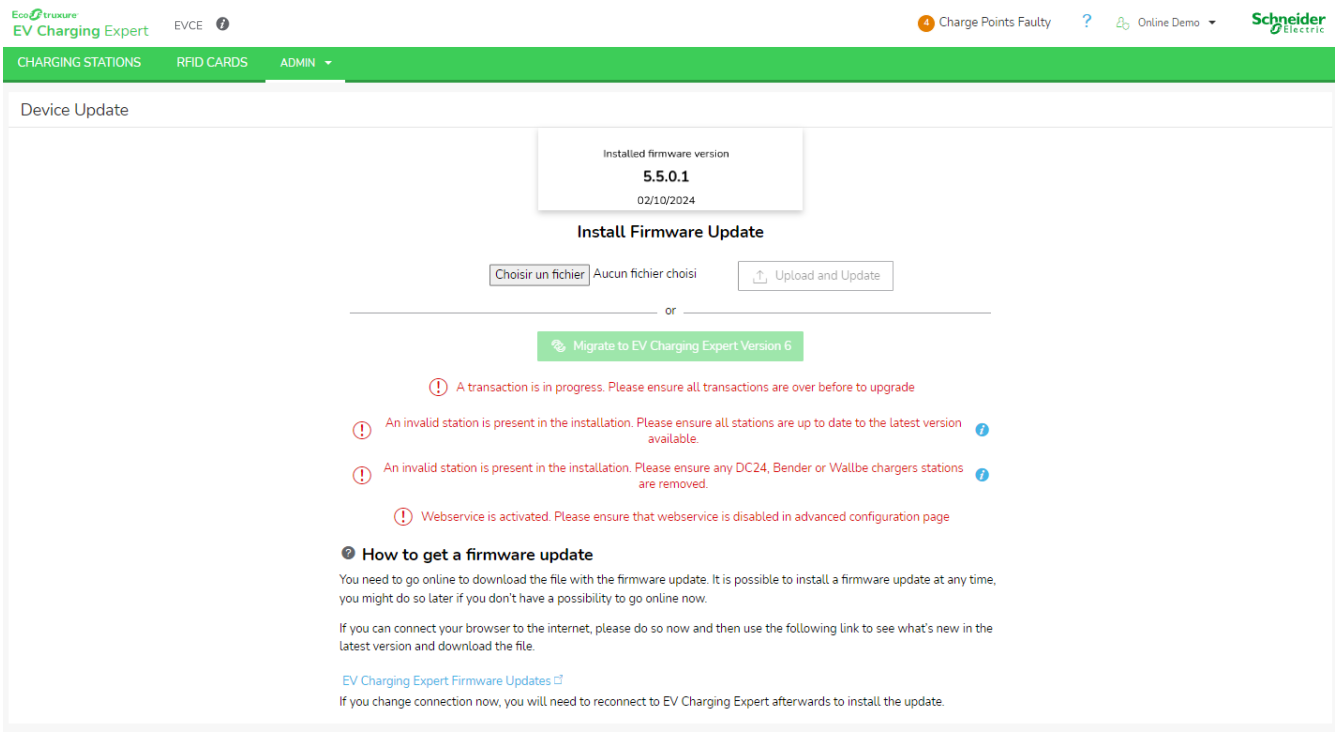
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1.1 Launch migration

1.1.1 Overview

Prior to EcoStruxure EV Charging Expert migration to version 6, it is required to update the device to the version 5.5. While starting the migration process in web interface, an indication will display if the update of the charging stations are also required.

The migration to version 6 will only be enabled once there is no firmware discrepancy between EcoStruxure EV Charging Expert and the charging stations.



1.1.2 Charging station restriction

The below table summarized supported charging stations and minimal firmware versions to enable EcoStruxure EV Charging Expert migration.

Charging station	Supported	Minimal version
EVlink Pro AC	Yes	1.3.8
EVlink ProDC 120/180	Yes	2.5.02
EVlink Parking	Yes	3.4.0.9
EVlink SmartWallBox	Yes	3.4.0.9
EVlink City	Yes	3.4.0.9
24kW DC Charger	No	
Bender	No	
WallBee	No	

If 24kW DC, Bender or WallBee charging stations are present in the EcoStruxure EV Charging Expert configuration, the migration will not be allowed.

If charging sessions are in progress into the installation, it is necessary to stop all of them in order to perform the migration.

If a charging station is disconnected from the installation, migration is blocked. It is necessary to reconnect charging station or uninstall it prior to the migration. In this case, the station can be re-installed once migration is over.

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1.1.3 Configuration restrictions

EcoStruxure EV Charging Expert configuration restrictions:

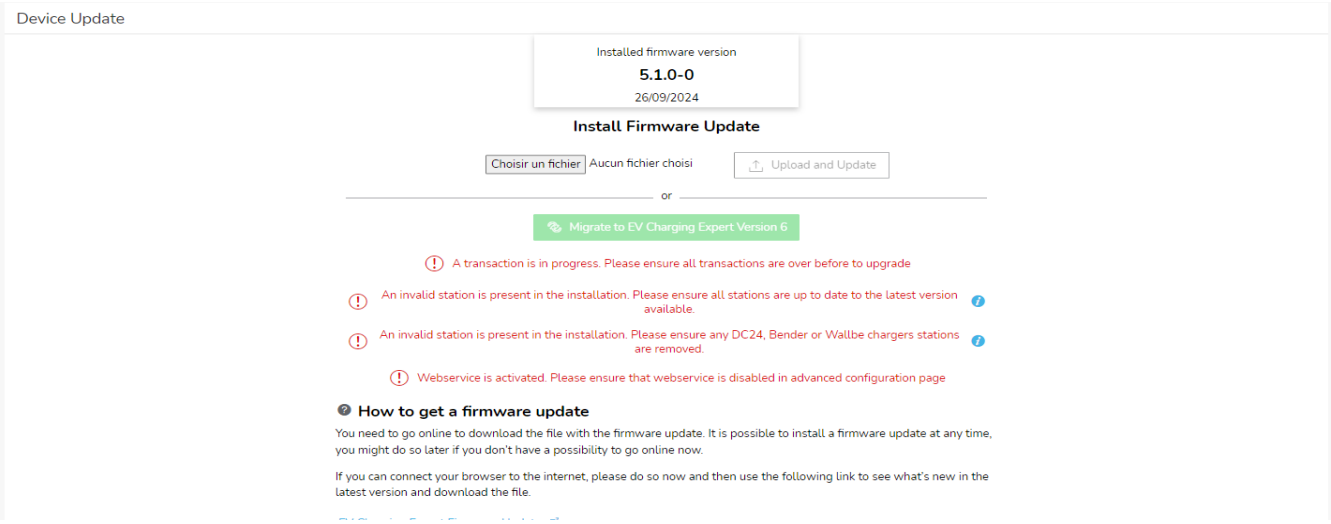
- **Webservice activated**: If EcoStruxure EV Charging Expert Rest API v1 is enabled, it is not recommended to perform migration. This version is no more supported in EcoStruxure EV Charging Expert versions 6.0 or upper. Otherwise, if EcoStruxure EV Charging Expert Rest API v2 is used, please deactivate webservice in order to allow the migration.
- **Username**: Any username shorter than 4 characters prevents the migration start. To perform migration, please update usernames accordingly.
- **Box identifier**: Charging station box identifiers shall be shorter than 30 characters. To perform migration, please update all box identifiers accordingly.
- **ModBus Polling Period**: Configurations lower than 1 second or higher than 3 seconds are adjusted to that range during the migration.

1.1.4 Version 6 limitations and points of attention

Below features are removed or adapted in firmware version 6 and upper. Major differences between the new version 6 and previous versions are presented below:

- Power Outlet feature is removed. It is no more possible to report the values of a power meter that is not assigned to the EV charging infrastructure.
- When remote supervision is enabled:
  - VIP badges feature is deactivated
  - Remote start and authentication management are not accessible
- When there is no remote supervision
  - Authentication management through EcoStruxure EV Charging Expert is reviewed with specific authentication groups. The configuration of authentication rules should be checked once migration is performed.
- Add station manual is not possible anymore. It is necessary to add it via OCPP (please refer to user guide)

1.1.5 Where to start migration ?



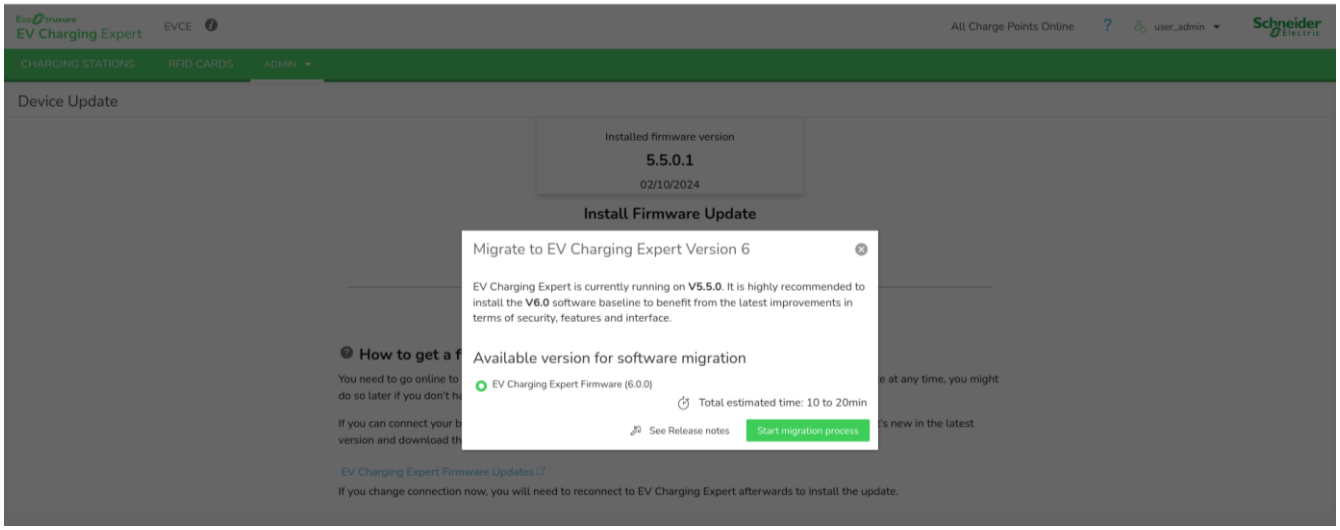
To start the migration from the **Device Update** webpage, select **Migrate to EV Charging Expert Version 6**. It automatically reviews all the configuration restrictions

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and display information if any limitation prevents the migration. Otherwise, the migration wizard will start. From that point of time, all new transactions on a charging station connected to EcoStruxure EV Charging Expert should be stops.

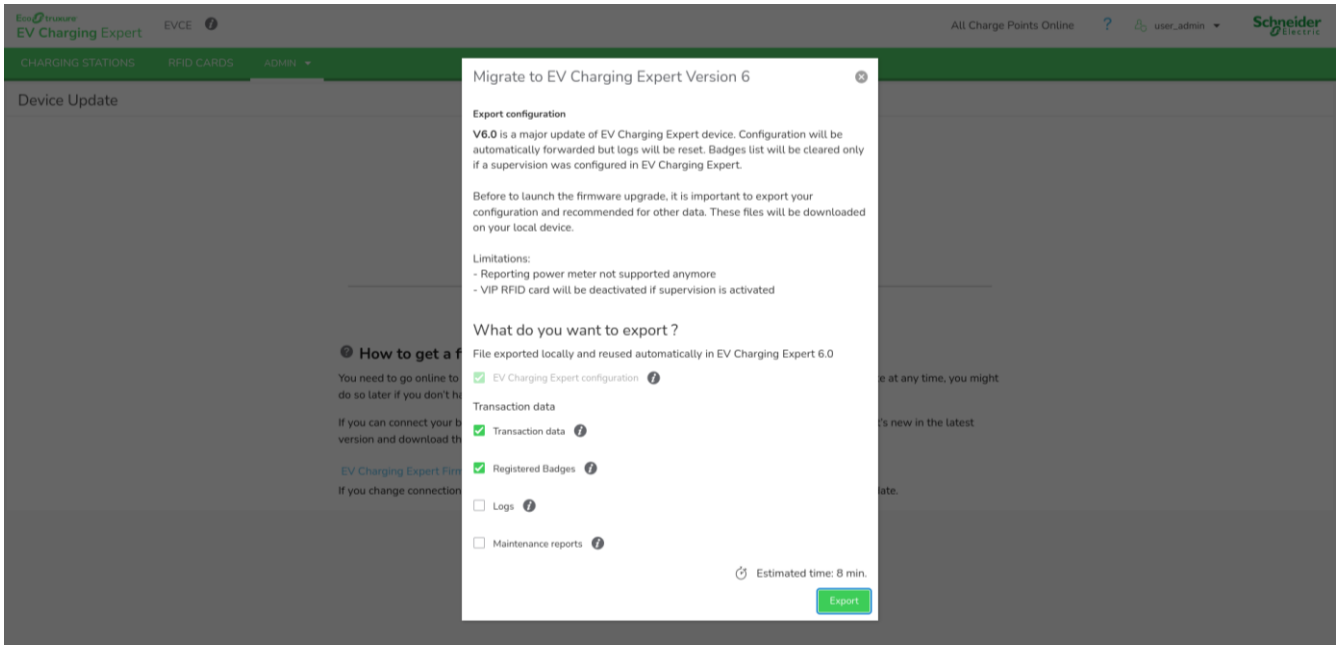
1.2 Migration process

1.2.1 Start migration from wizard



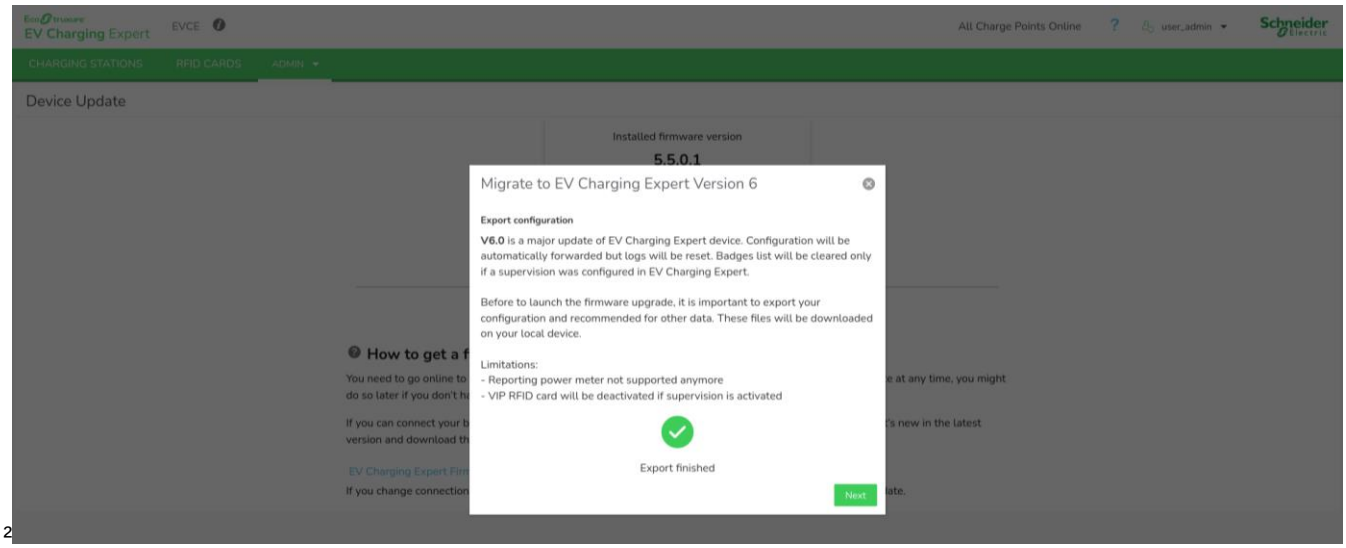
At first, it is possible to read release note detail of EcoStruxure EV Charging Expert version 6.0. The migration process takes around 10 to 30 min depending on your installation configuration (number of electrical zones, number of charging stations …).

1.2.2 Configuration export



At this step, it is important to save EcoStruxure EV Charging Expert data before the migration. This step takes around 10 minutes depending on installation size. The configuration is saved in a format that is only compatible with EcoStruxure EV Charging Expert version 6.0 and upper and will be used as a backup in case of a migration failure.

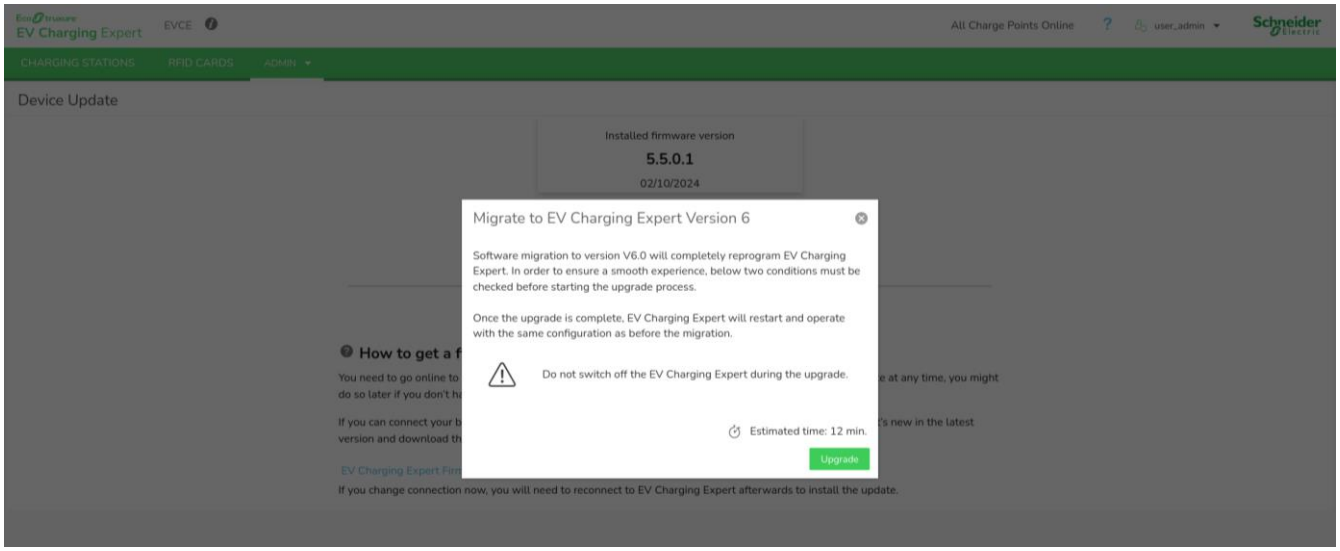
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Once configuration is exported, verify on your computer that files are present before to continue the migration.

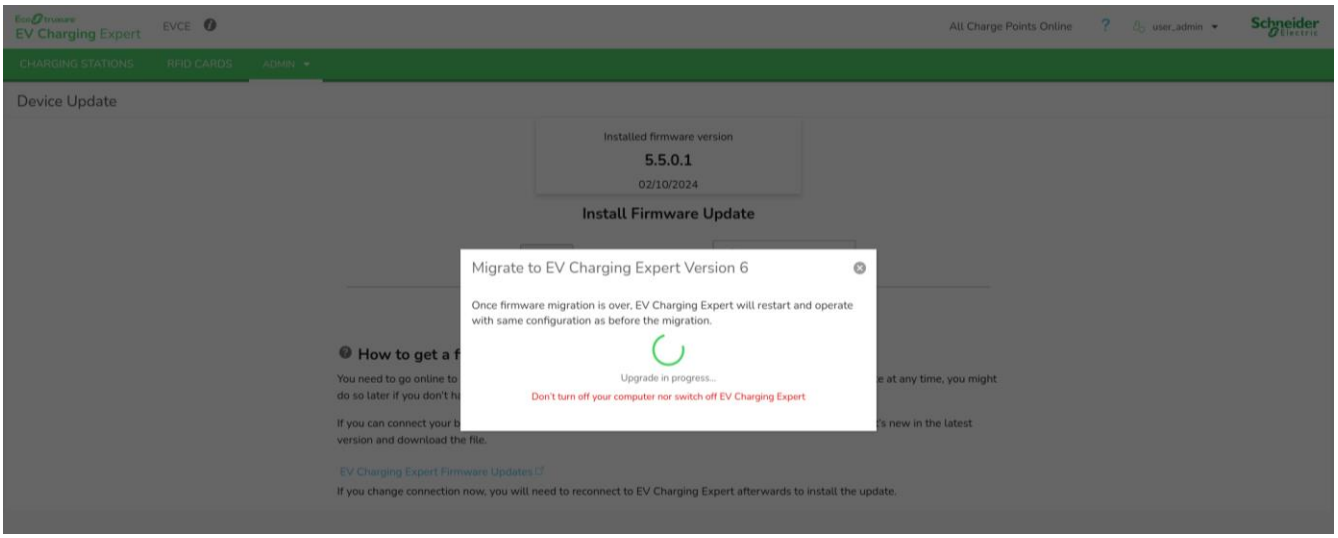
The migration zip file is protected by a password: **se**. To import the migration file directly to an EV Charging Export with version 6.0.0 or upper, it is necessary to provide the password.

1.2.3 Launch migration programming

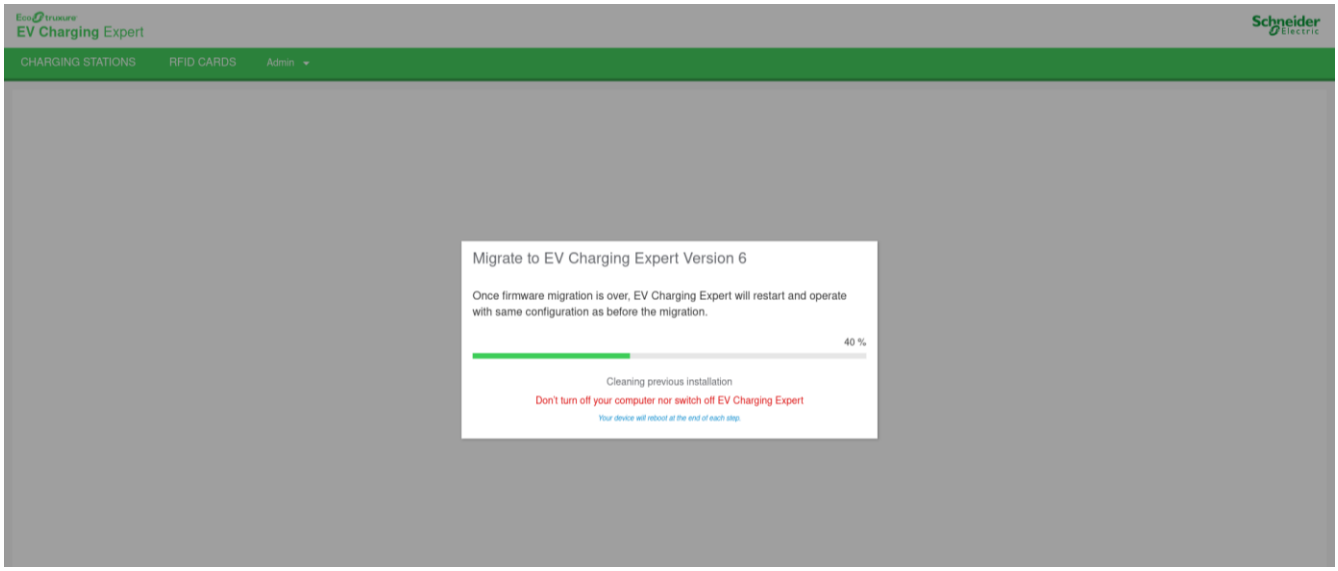


This step is the main part of migration process, it completely reprograms the device. **As a consequence, it is mandatory to let EcoStruxure EV Charging Expert powered during the process**. The programming starts with a click on **Upgrade** button.

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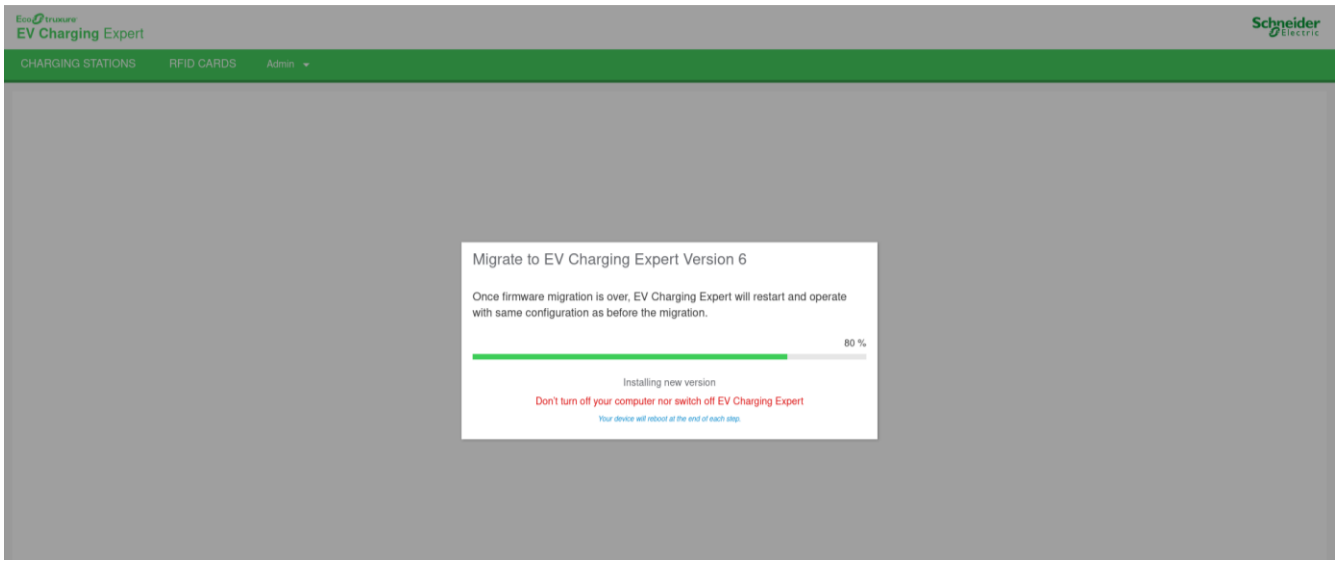


During this step, a backup of product configuration and license is generated automatically in order to forward it automatically at the end of migration process and before the first user login.

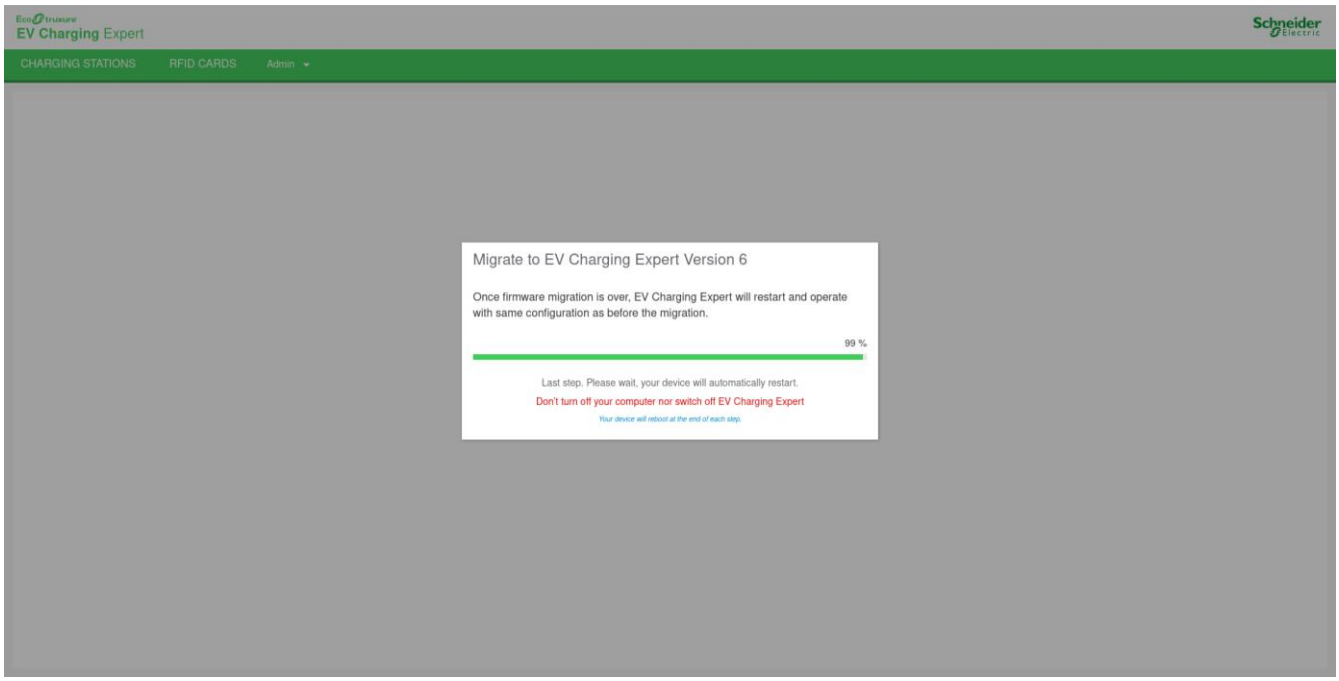


A progression bar is displayed. It will iteratively show 40 / 60 / 80 / 99% or progress along the migration. At this step, the running software prepares the device to perform migration and reorganize storage.

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At this step, migration process prepares resources upgrade to finalize the installation.

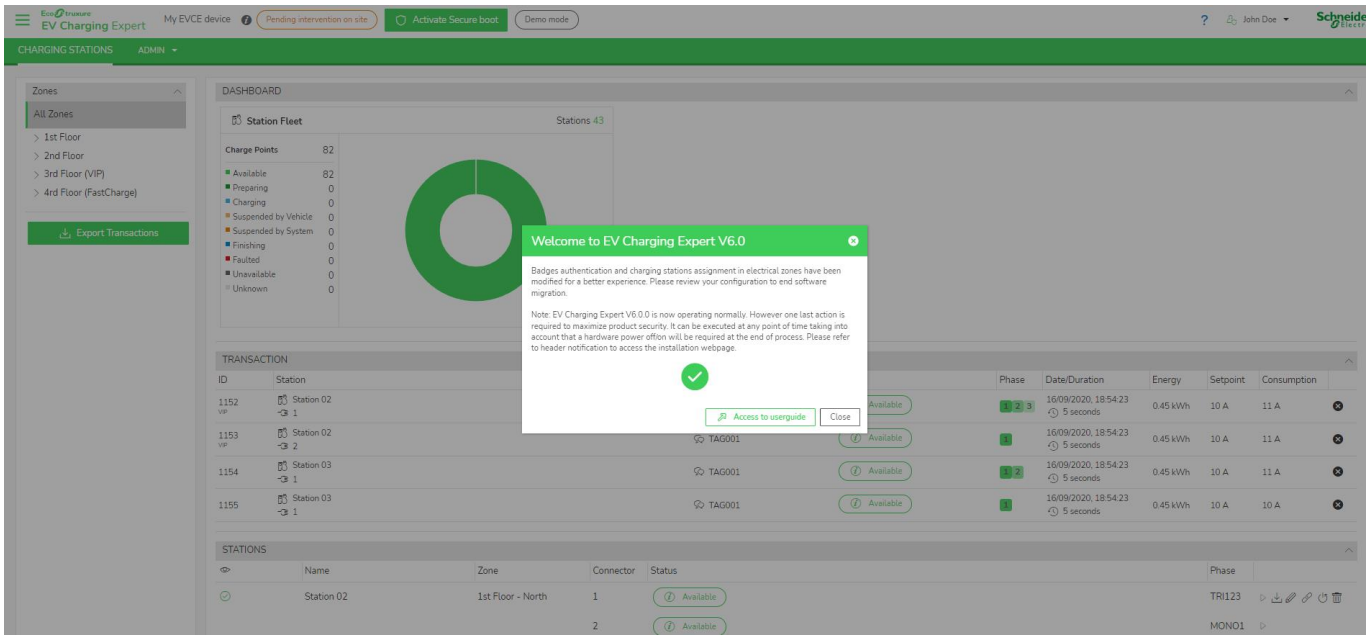


At the last step, the EcoStruxure EV Charging Expert is being upgraded to version 6.0 and then reload configuration.

1.2.4 Migration ending

At the end of migration process, EcoStruxure EV Charging Expert restarts and runs the version 6.0. The login credentials are the same. An information pop-up displays the recommendations after migration.

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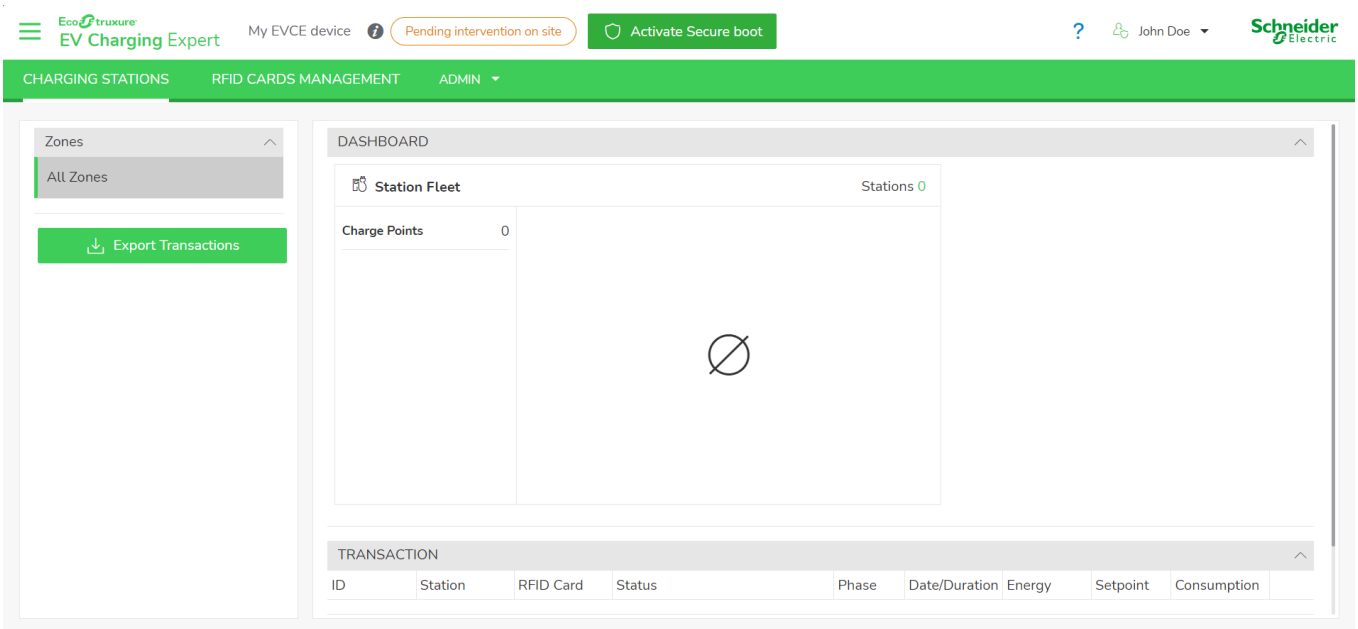


1.3 Secure boot activation

1.3.1 Overview

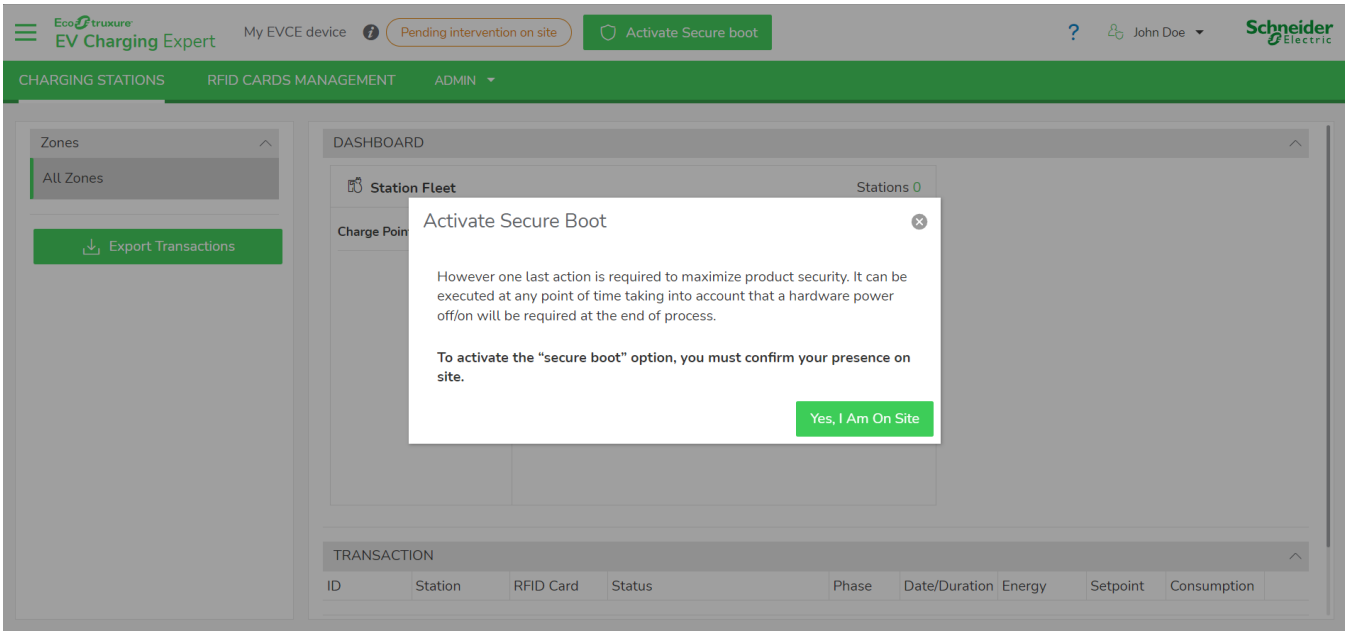
To finalize EcoStruxure EV Charging Expert cybersecurity installation at its highest level, it is important to install secure bootware on your device. To proceed, it is mandatory to be physically on site and access EcoStruxure EV Charging Expert power supply in order to perform an electrical reboot.

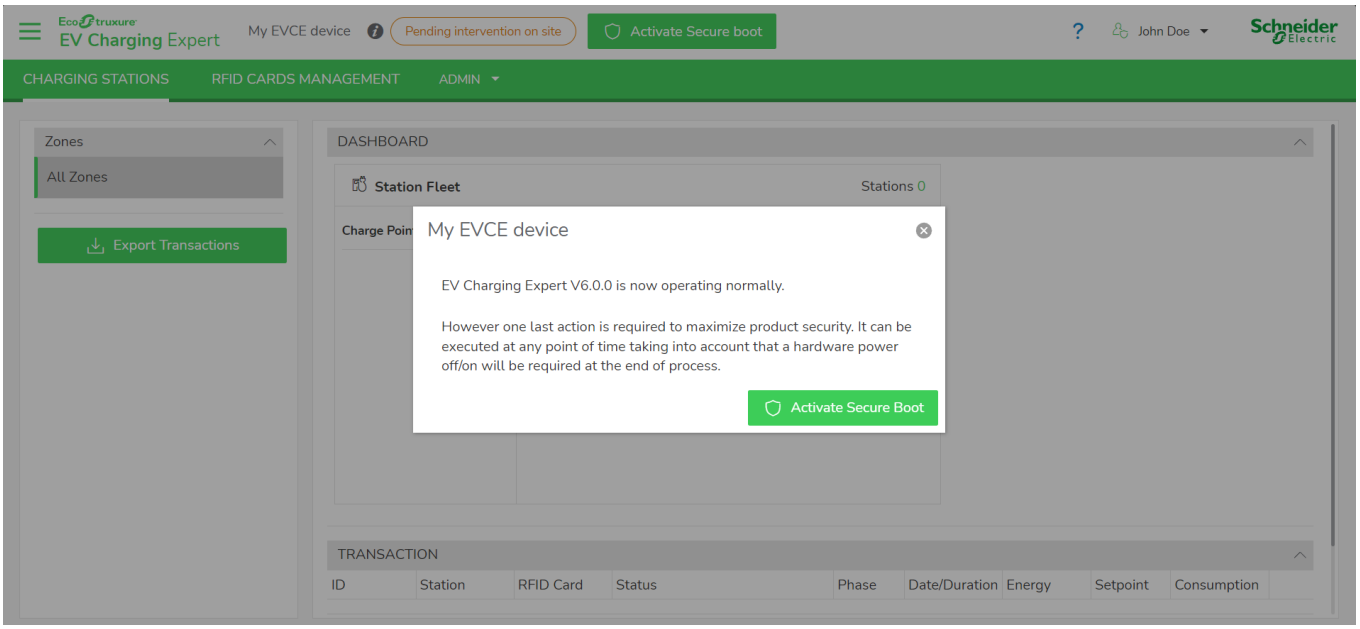
1.3.2 Secure boot activation



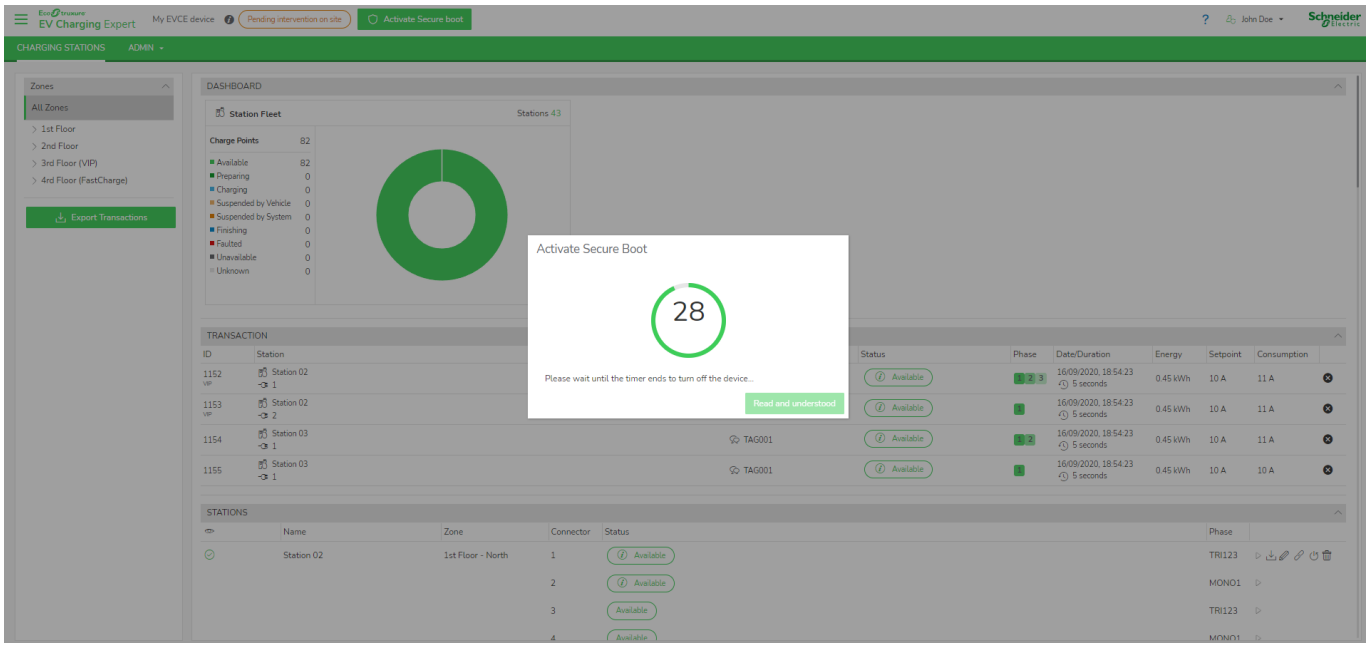
To activate secure boot, select **Activate Secure boot** button and follow the pop-up information.

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At the end of counter, power off the EcoStruxure EV Charging Expert during 20 seconds then power on the device. The secure boot is now activated and notification disappears from webpages header.

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BACK TO FACTORY INTERFACE

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2.1 Overview

During the migration process, in case of any issue, it is required to run the **Back to Factory** procedure in version 6.0. Once EcoStruxure EV Charging Expert is running, backup configuration (downloaded at the beginning of the migration wizard) can be imported for a shorter commissioning. To perform the update it is necessary to have an SD card with EcoStruxure EV Charging Expert **Back to Factory** image version 6.0.

2.2 Back to factory process

This procedure describes the steps to flash an EcoStruxure EV Charging Expert using industrial SD Card. This is the only procedure to run a complete reset of the product to version 6 and more.

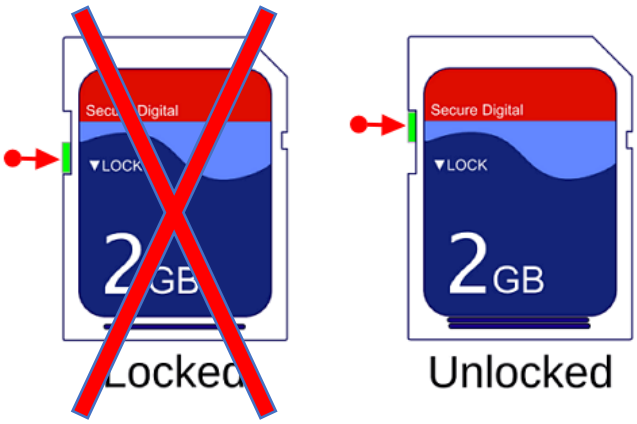
2.2.1 Prerequistes

The following material is required:

- An SD Card of at least 4 GB (can be a microSD card with an SD card adapter)
- A Windows computer with an SD Card reader and administrative rights

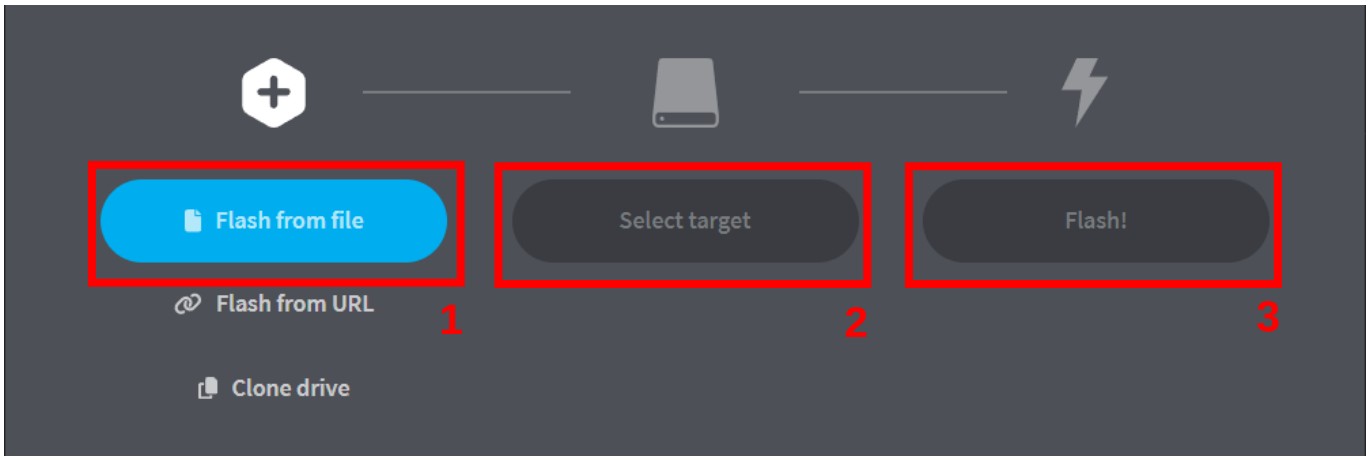
2.2.2 SD Card preparation

The SD card / SD card adapter side latch should be “Unlocked” position:



Plug the SD Card to the Windows computer using an internal SD card reader or an external USB SD card reader. Download Balena Etcher software from https://etcher.balena.io/

Install the downloaded software on your computer (administrative rights may be required). Launch the Etcher software:

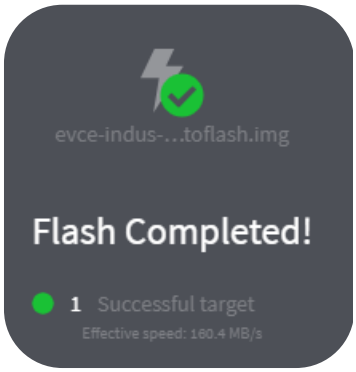


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1. Download the EcoStruxure EV Charging Expert SD card back to factory image on se.com, click on “Flash from file” and select the image.
2. Click on “Select target” and select your SD card.
3. Click on “Flash”. The SD card content will be erased and replaced by the EcoStruxure EV Charging Expert back to factory image. Wait for the Decompressing, Flashing and Verifying process to end with success.

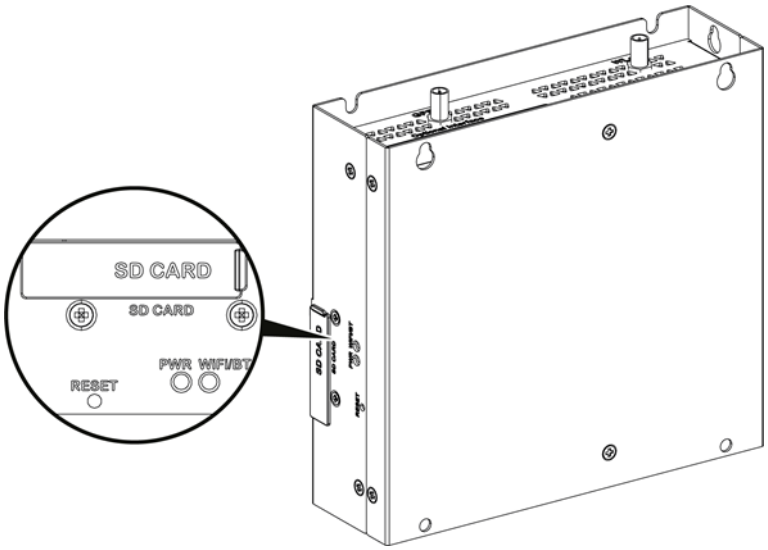
   At the end you should get the following message:



If you have an error, try again by using another SD card or another SD card reader.

2.2.3 Flashing the EcoStruxure EV Charging Expert

1. Unplug the device from power source.
2. Insert the prepared SD Card into the HMIBSC SD card slot

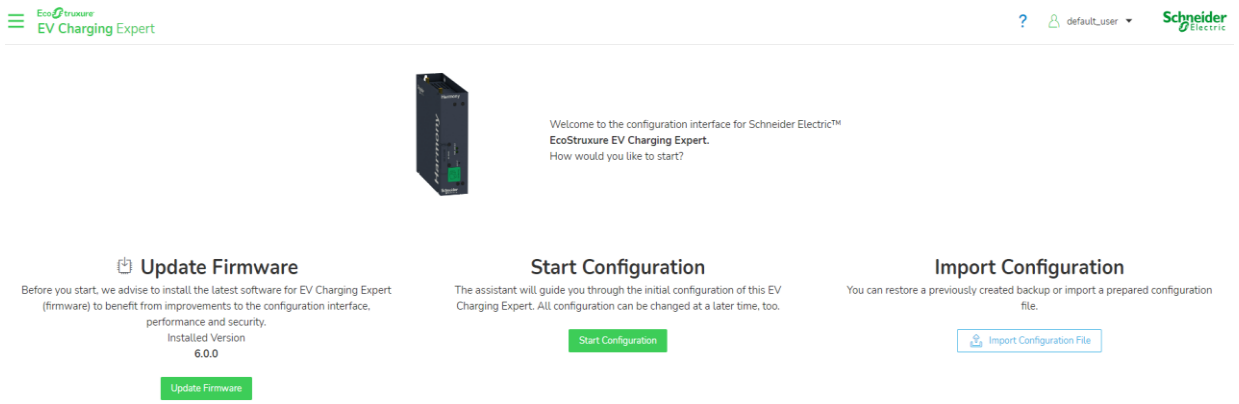


3. Plug the device from power source.
4. WiFi LED starts blinking quickly.
5. At the end of the installation, LED blinks slowly.
6. Don’t forget to remove the SD Card before to restart your device.

2.3 Import configuration

During Configuration export, a zip archive was downloaded containing all EcoStruxure EV Charging Expert information and configuration. After the back to factory, the device IP address is 192.168.0.128 and proposes to import backup configuration.

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Select zip file and import it. After reboot, the configuration is applied and the device is reachable at the IP address that was set in imported configuration.

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