
EVlink release note for software version 3200

date: 2018_02_09

1) Document scope

This release note presents the new features and modifications added to the EVlink charging stations.

This release for the EVlink software is a mandatory update to benefit from latest functionalities for charging stations EVlink Parking range, EVlink Smart Wallbox range and EVlink City range

Note: in case of cluster with Energy Management features, the software upgrade to **EVSE 3200** or higher is not allowed. Please contact your Schneider Electric support.

The software release package will consist of the charging station software and associated documentation.

2) Software and Hardware requirements

This software release applies to EVlink charging stations with 2 conditions detailed in next sections:

- Hardware compatibility
- Software compatibility
- Not included in a M340 based cluster

2.a Hardware Revision

This software release is compatible with charging stations:

- **EVlink Smart Wallbox:** EVB
- **EVlink Parking:** EVF2... and EVW2
- **EVlink City** with a datecode greater than 15401

You can check the date code directly on the product or in the commissioning tool.



Directly on the product
See example below



Date code of the product

On the Commissioning tool (Maintenance Tab)

See example below Production Date 16043

Maintenance Report

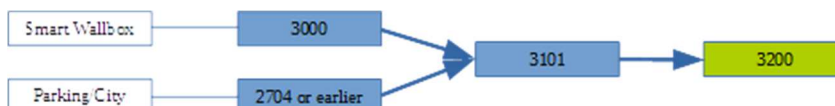
Product Number

	Plug #104
Commercial Ref	EVB1A22P4ERI
Factory Code	3N
Production Date	16043
Production Revision	00
Batch Number	002
Unique Identifier	001
Product Id	S01B67D
Serial Number Part 1	3N155110441G2
Serial Number Part 2	S1B7551700014

2.b Software compatibility

The software update requires that the charging station has a recent software installed onboard. The version required is 3101.

For older installed software, provided that the hardware is compatible, a preliminary update to version 3101 is possible, as shown in the figure below, and detailed in a later section.



Schneider Electric Industries SAS
35, rue Joseph Monier
CS 30323
F - 92506 Rueil Malmaison Cedex
always
www.schneider-electric.com

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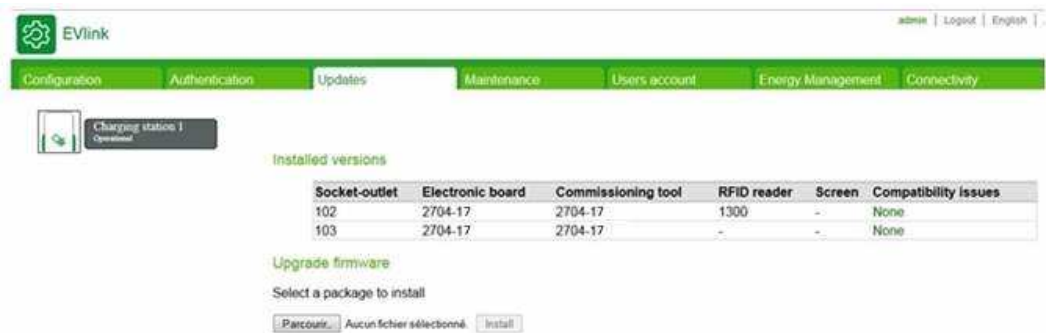
As standards, specifications and designs change from time to time,

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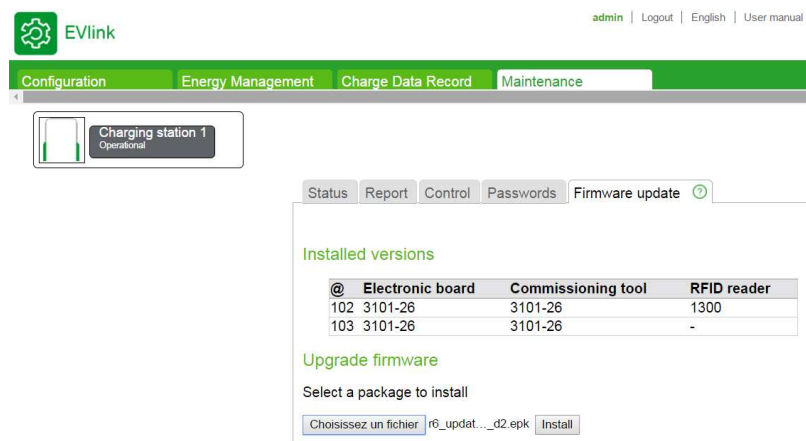
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Software version can be checked using the Commissioning tool in the Updates Tab.

See example below based on 2704.17



See example below based on 3101.26



More details can be found in the below section “Upgrade procedure”.

2.c No Cluster configuration

The software update is not allowed if the Charging Station is included in a cluster managed by a Schneider Electric M340 device.

3) Software upgrade procedure

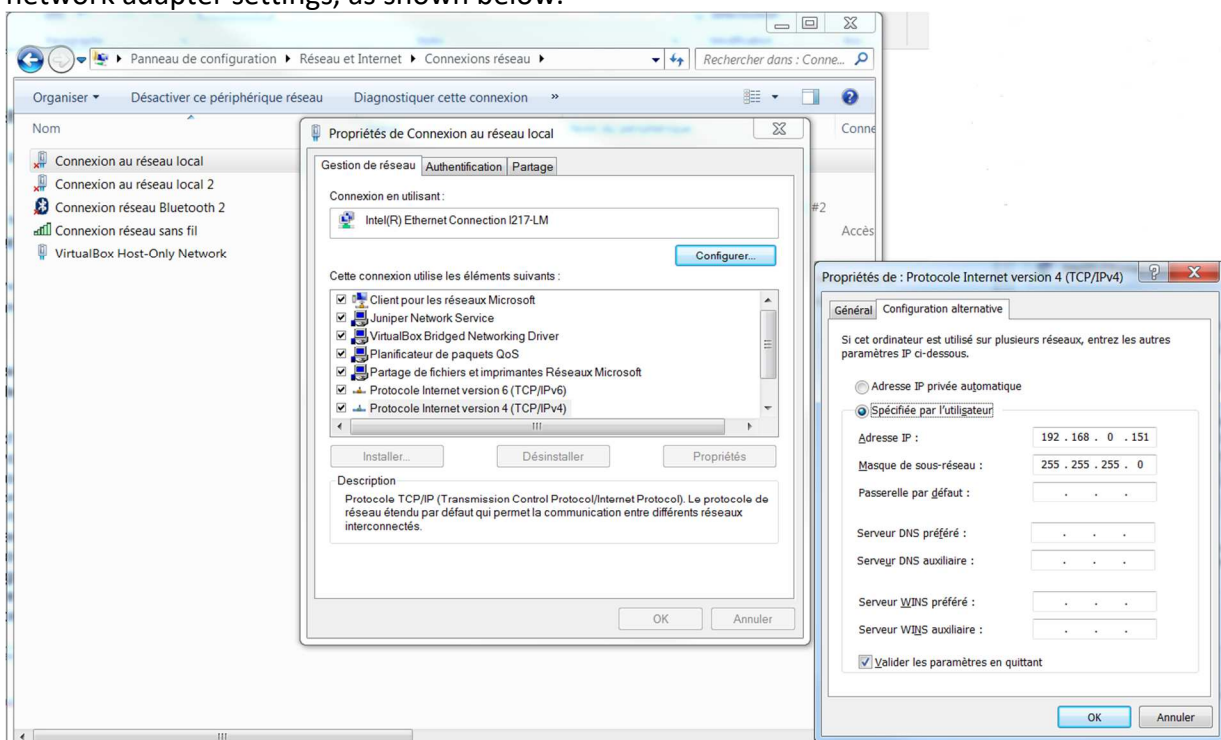
Software upgrade is not possible on all Charging Stations (see “Hardware/software requirements” section above).

If your Charging Station has a software version older than 3101, please start with upgrading to 3101.

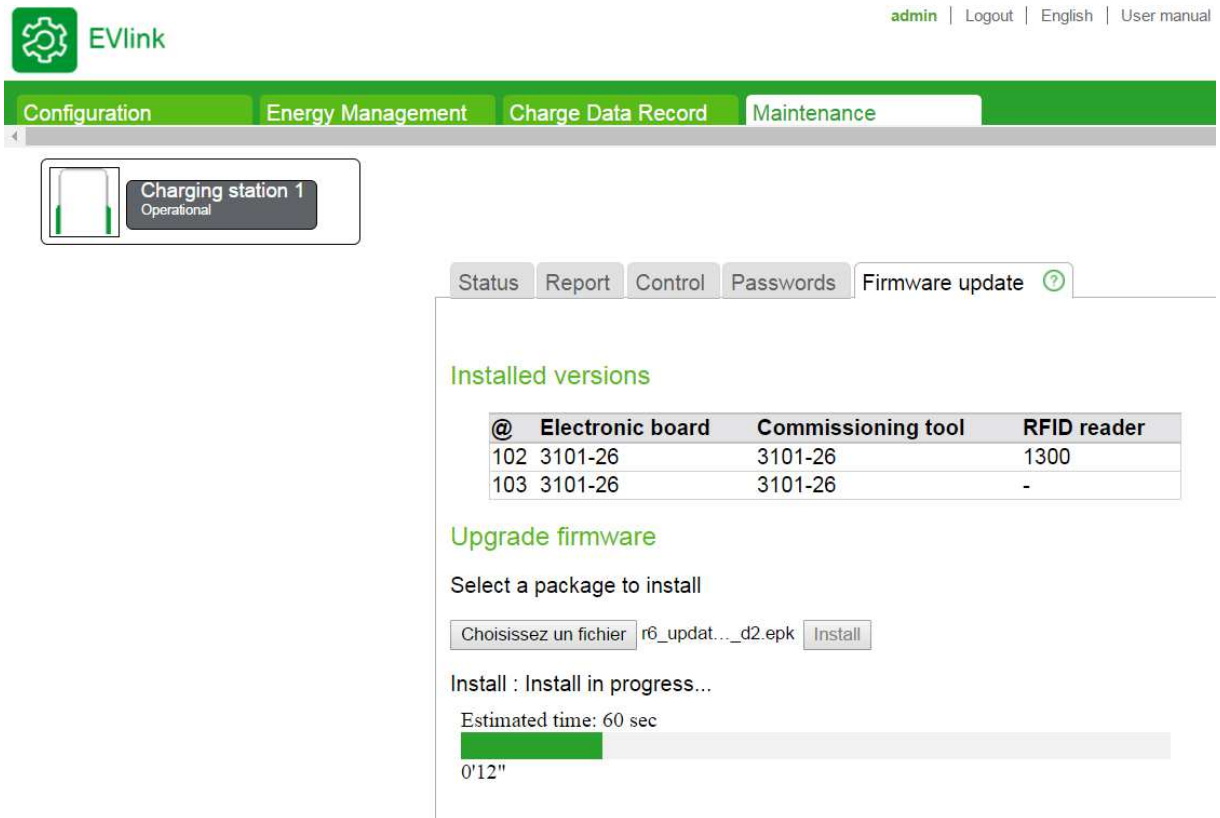
Note: in case of cluster with Energy Management features, the SW upgrade to 3200 is not allowed. Please contact your Schneider Electric support.

Follow strictly the procedure below and the remarks:

- 1) First connect your laptop to the Charging Station using an Ethernet cable (slot #1, on the left), and check that you can communicate with the Charging Station. You may need to change your network adapter settings, as shown below.



- 2) The firmware version displayed in the “Maintenance” tab, “Firmware update” subtab shall be 3101, otherwise a preliminary upgrade to 3101 is required before proceeding with next steps (please refer to specific documentation)
- 3) Click on “Browse” and select “r6_update_3.2.0.12_d2.epk”, and click on “Install”.
- 4) Wait for progress bar to complete and “operation completed” message for each plug.

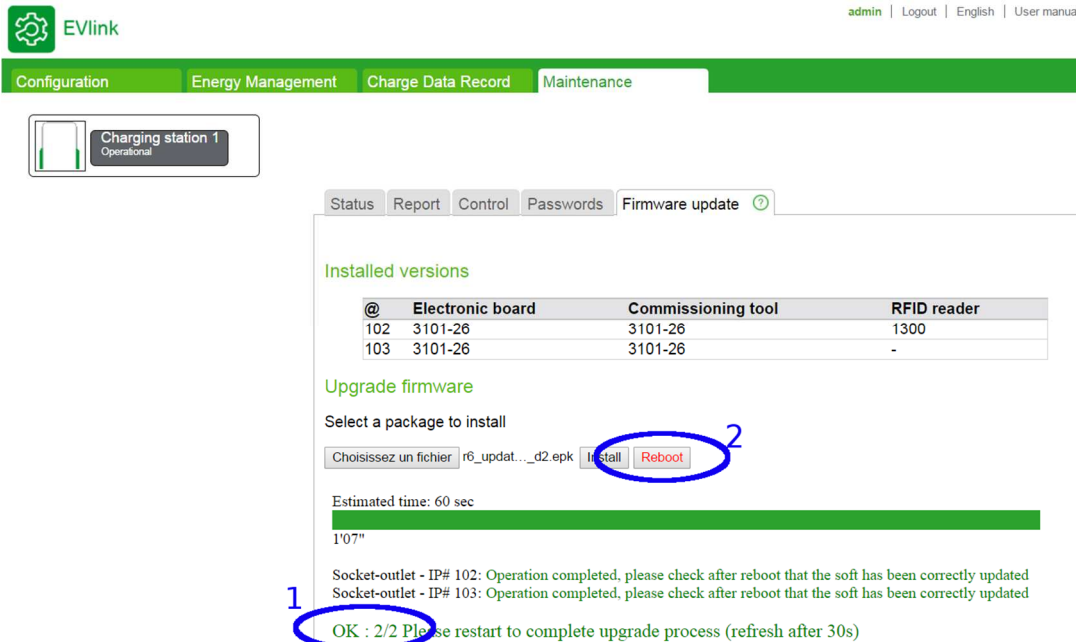


The screenshot shows the EVlink web interface. At the top, there is a navigation bar with tabs: Configuration, Energy Management, Charge Data Record, and Maintenance. The Maintenance tab is selected. Below the navigation bar, there is a section for 'Charging station 1' which is 'Operational'. To the right, there is a sub-tab menu with options: Status, Report, Control, Passwords, and Firmware update. The Firmware update sub-tab is selected. Under this sub-tab, there is a section titled 'Installed versions' which contains a table with the following data:

@	Electronic board	Commissioning tool	RFID reader
102	3101-26	3101-26	1300
103	3101-26	3101-26	-

Below the table, there is a section titled 'Upgrade firmware' with the text 'Select a package to install'. There is a file selection button labeled 'Choisissez un fichier' and a file named 'r6_updat..._d2.epk' is selected. An 'Install' button is next to it. Below this, it says 'Install : Install in progress...' and 'Estimated time: 60 sec'. A progress bar is shown with a green segment and the text '0'12''.

5) Reboot the Charging Station, by clicking on “Reboot” button.



admin | Logout | English | User manual

Configuration Energy Management Charge Data Record Maintenance

Charging station 1 Operational

Status Report Control Passwords Firmware update ?

Installed versions

@	Electronic board	Commissioning tool	RFID reader
102	3101-26	3101-26	1300
103	3101-26	3101-26	-

Upgrade firmware

Select a package to install

Choisissez un fichier r6_updat..._d2.epk Install Reboot

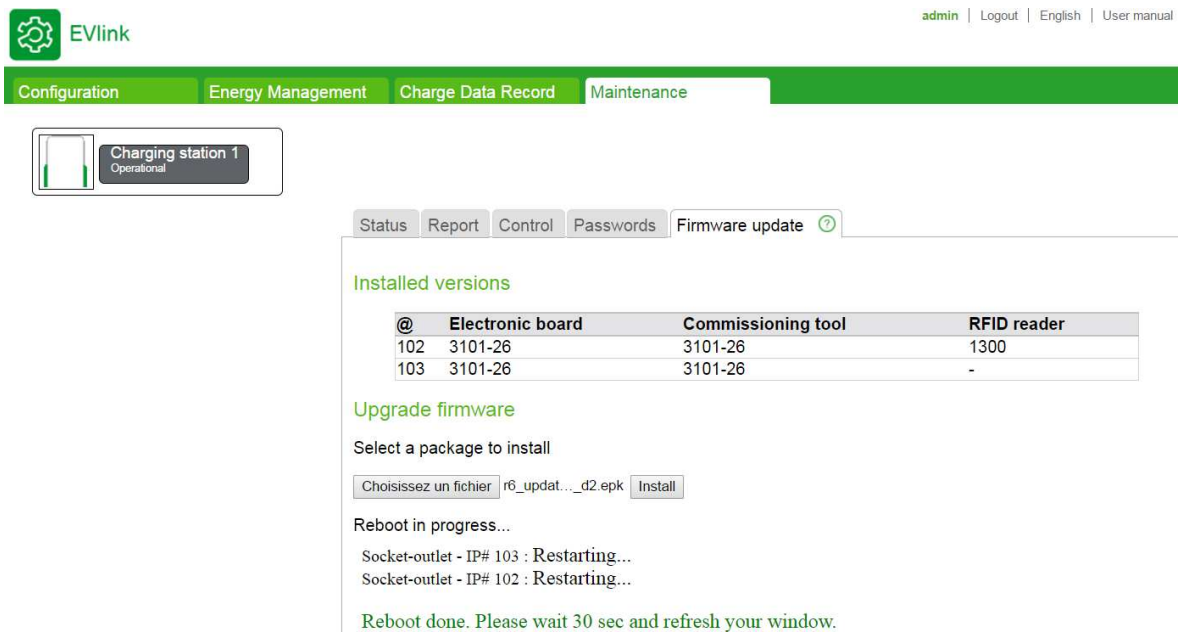
Estimated time: 60 sec

1'07"

Socket-outlet - IP# 102: Operation completed, please check after reboot that the soft has been correctly updated
Socket-outlet - IP# 103: Operation completed, please check after reboot that the soft has been correctly updated

OK : 2/2 Please restart to complete upgrade process (refresh after 30s)

The station reboots, and you need to reload the page to check the new firmware version.



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Configuration Energy Management Charge Data Record Maintenance

Charging station 1 Operational

Status Report Control Passwords Firmware update ?

Installed versions

@	Electronic board	Commissioning tool	RFID reader
102	3101-26	3101-26	1300
103	3101-26	3101-26	-

Upgrade firmware

Select a package to install

Choisissez un fichier r6_updat..._d2.epk Install

Reboot in progress...

Socket-outlet - IP# 103 : Restarting...
Socket-outlet - IP# 102 : Restarting...

Reboot done. Please wait 30 sec and refresh your window.

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CS 30323
F - 92506 Rueil Malmaison Cedex
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For charging stations with an OCPP Supervision, the charging station reboots automatically.

Important remark:

- Don't refresh the web page (F5 or refresh) during the process.
- Wait until the status light of the charging station turns off and then on again to be sure that the restart with the new software is successfully completed.
-

NOTE: With Smart Wallbox EVB.... fitted with a key lock, make sure that the station is unlocked, otherwise the status light remains off and it is not possible to check that the restart is completed.

After the reboot, please refresh your webpage and check in the "Maintenance" tab, "Firmware update" subtab that the Electronic Board and the Commissioning Tool versions for each socket outlet are 3200.

If not, restart the whole update process.

4) New features

4.a OCPP Smart Charging

The firmware version 3200 adds the support of OCPP1.6 / Smart Charging feature. Please refer to OCPP specification for details. You will find below all OCPP messages supported by this release:

	Message	Way	OCPP Profile					
			Core	Firmware	Reservation	Local auth	Smart charging	Remote trigger
General	BootNotification	Up	x					
	StatusNotification	Up	x					
	Heartbeat	Up	x					
Charging	Authorize	Up	x					
	StartTransaction	Up	x					
	MeterValues	Up	x					
	StopTransaction	Up	x					
Remote Charging	RemoteStartTransaction	Down	x					
	RemoteStopTransaction	Down	x					
Reservation	ReserveNow	Down			x			
	CancelReservation	Down			x			
Configuration	ChangeConfiguration	Down	x					
	GetConfiguration	Down	x					
Firmware	UpdateFirmware	Down		x				
	FirmwareStatusNotification	Up		x				
	GetDiagnostics	Down		x				
	DiagnosticsStatusNotification	Up		x				
Maintenance	ChangeAvailability	Down	x					
	ClearCache	Down	x					
	Reset	Down	x					
	UnlockConnector	Down	x					
Local list	SendLocalList	Down				x		
	GetLocalListVersion	Down				x		
Smart charging	SetChargingProfile (OCPP 1.6)	Down					x	
	GetCompositeSchedule (OCPP 1.6)	Down					x	
	ClearChargingProfile (OCPP 1.6)	Down					x	
Other	DataTransfer	Up/Down	x					
	TriggerMessage (OCPP 1.6)	Down						x

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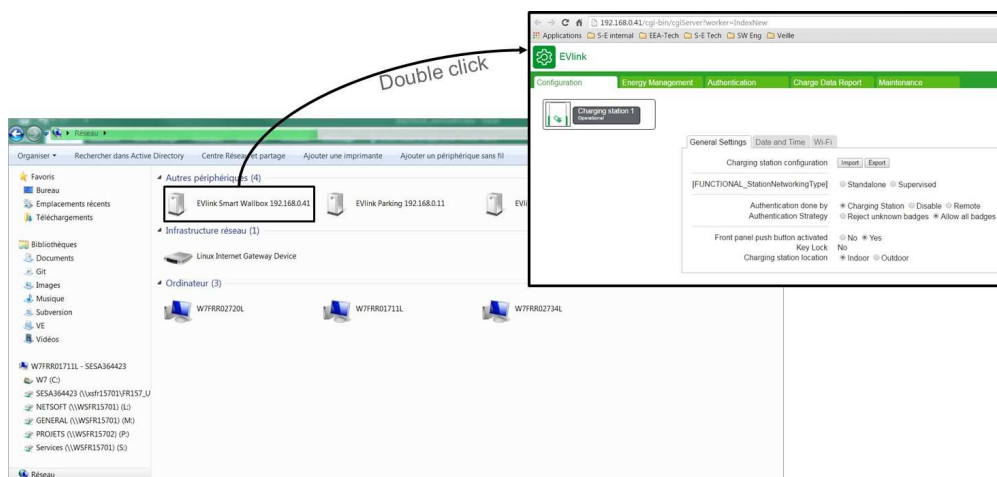
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4.b DHCP (Dynamic Host Control Protocol) Support

Network configuration is made easier with the embedded DHCP client, provided that your network has a DHCP server. The feature can be enabled/disabled using the commissioning tool. By default, the feature is:

- Disabled when the station is upgraded from a previous software release
- Enabled when the new station is new and packed with the software version 3200

The commissioning tool of the Charging Station can be opened from Windows using the “Network” window, as shown below:



4.b.a Automatic IP address assignment

When the DHCP client is enabled on the Charging Station and the network provides a DHCP server, the charging station automatically registers in the network without the hassle of manually configuring its IP address.

Note: if the DHCP server is not reachable or installed, the charging station falls back to its IP address set manually (by default, this IP address is 192.168.0.102).

4.b.b Single IP address

A charging station with 2 sockets can show one or two IP address(es). By default, a charging station with software version 3200 shows a single IP address. You may change this setting using the commissioning tool.

4.c EV Ready/ZE Ready Handshake

With software version 3200, the handshake feature implementation used by delayed charging is now compatible with EV Ready and ZE Ready standards.

5) **Improvements or bug fix**

- Charge Detail Record (CDR) improvement: in case of a wrong email address entry.
- Enhanced compatibility for badge list file import (now supports CR/LF ending character)

6) **Functions removed**

None

7) **Known limitations**

- RFID Reader upgrade is not possible with software versions 3101 and 3200. The expected version is of the RFID reader is 1300. If an update is required, it shall be done before the Charging Station is upgraded to software versions 3101 and/or 3200.