

Test Report for Charge Stations connected to GreenFlux Platform using OCPP1.6 via JSON	
Manufacturer Name:	Xcharge
Hardware model:	C8EU
Firmware	V1.0.0_C8_Standard
Tester:	Wei Wang
Date:	30/10/2023

Step	OCPP Profile	Action	Timestamp	Pass	Remarks
1	Core	Boot charging station	2023-09-22 09:50:02	Y	<ul style="list-style-type: none"> * Tested in a WiFi environment. * We highly recommend implementing ICCID information in BootNotification when a charge connects via SIM cards, as it facilitates the troubleshooting process. * This charger model includes an internal storage battery. During each boot, the battery will perform a self-check. During this period, the connectors will become Unavailable for approximately 5 seconds, after that they will return to an Available State again. * Vendor-specific Datatransfer messages will be sent frequently to the backend to notify the battery's status. The configuration key "BatterySampleInterval" is used to control the frequency.
2	Core	Change availability	2023-09-22 09:51:24	Y	
3	Core	Get Configuration	2023-09-22 09:54:26	Y	
4	Core	Change Configuration	2023-09-22 09:54:32	Y	
5	Core	Heartbeat	2023-09-22 09:54:54	Y	
6	Core	Charging Session - Local - Plugin first	2023-09-22 10:05:45	Y	<ul style="list-style-type: none"> * Swiping an unauthorized card during an ongoing transaction will not trigger a Notification to the backend. * According to the manufacturer, the charger will authorize with the backend if the 'ParentIDTag' is used to stop the transaction. * The connector will transition from 'Finishing' to 'Available' after 30 seconds of cable unplugging. This 30-second delay is used to display charging records and billing information on the charger's screen.
7	Core	Charging Session - Local - Identification first - Connection Loss	2023-09-22 10:15:23	Y	MeterValues and Stop Transaction received as expected after re-establishing the connection.
8	Core	Charging session - Local - Identification first - Connection TimeOut	2023-09-22 10:27:12	Y	The ConnectionTimeout should be configured for a duration longer than 60 seconds. After identification through swiping card, the charger requires time for a self-check and to prepare the battery system. However, it is possible to configure this value for less than 60 seconds. In such cases, the actual ConnectionTimeout period will remain at 60 seconds. It is strongly recommended to notify the backend when making changes to this value that result in a period less than 60 seconds.
9	Core	Hard Reset - During Charging session	2023-09-22 10:33:29	Y	<ul style="list-style-type: none"> * Stop Transaction received before reboot as expected. * It is recommended that the Charge Point changes to Unavailable during the Reset. Minor Issue. * After reboot, we expected to receive a StatusNotification indicating Finishing instead of Preparing since the cable remains connected and previous transaction has just stopped. Minor Issue.
10	Core	Hard Reset - No charging session	2023-10-30 10:21:33	Y	The charger is likely to reboot twice within one minute after sending the Hard Reset Request, after these reboots, the connection stabilizes. Minor issue.
11	Core	Soft Reset - During Charging session	2023-09-22 10:48:40	Y	Same with step 9.
12	Core	Soft Reset - No charging session	2023-09-22 10:51:31	Y	It is recommended that the Charge Point changes to Unavailable Status during the Reset. Minor Issue.
13	Core	Charging session - Local - Unauthorized	2023-09-22 10:52:08	Y	
14	Core	Charging session - Remote Start and Stop Transaction - Cable first	2023-09-22 10:55:59	Y	
15	Core	Charging session - Remote Start Transaction - Request first - Unlock Connector	2023-09-22 11:02:46	N/A	It is a DC charger and unlock connector is not available.
16	Core	Hardware related notification / error condition	2023-09-22 11:04:45	Y	
17	Firmware Management	Remote Firmware update - Download failed	2023-10-30 10:33:00	Y	DownloadFailed received as expected.
18	Firmware Management	Remote Firmware update - Installation failed	2023-09-22 11:17:32	Y	We received DownloadFailed instead of InstallationFailed.
19	Firmware Management	Remote Firmware update - Download & install	2023-09-22 11:48:56	Y	<ul style="list-style-type: none"> * Installed received as expected after the charger reboot. * The Firmware update should be sent in APK format. * It is recommended that the Charge Point changes to Unavailable during the installing process of the Firmware. Minor Issue.
20	Firmware Management	Remote get diagnostics report	2023-09-22 11:32:41	Y	Uploaded as expected.
21	Firmware Management	Remote get diagnostics - fail	2023-09-22 11:46:58	Y	UploadFailed received as expected with an invalid URL.
22	Core	Clear cache	2023-09-22 11:47:02	Y	
23	Remote Trigger	TriggerMessage	2023-09-22 11:48:34	Y	<ul style="list-style-type: none"> * MeterValue can only be triggered when the transaction is ongoing. * StatusNotification can triggered as expected.