

Test Report for Charge Stations connected to GreenFlux Platform using OCPP1.6 via JSON	
Manufacturer Name:	EVOS
Hardware model:	FleetHome22
Firmware	FH1.6.6
Tester:	Wei Wang
Date:	30/08/2023

Step	OCPP Profile	Action	Timestamp	Pass	Remarks
1	Core	Boot charging station	2023-07-27 09:09:23	Y	
2	Core	Change availability	2023-07-27 09:11:12	Y	
3	Core	Get Configuration	2023-07-27 09:16:42	Y	
4	Core	Change Configuration	2023-08-24 09:06:12	Y	*Connectiontimeout set to Read Only and can't change the value *MeterValueSampleData set to Read Only and can't change the value *MeterValueSampleInterval, Heartbeatinterval and Websocketpinginterval had been implemented and tested as expected *Currently, the charger has 26 configuration keys, more keys will be implemented by the manufacturer to increase the remote monitor capacity
5	Core	Heartbeat	2023-07-27 09:17:06	Y	
6	Core	Charging Session - Local - Plugin first	2023-07-27 09:35:28	Y	* The Charger has no RFID Reader, There are two ways to start transaction: 1. The first is through a physic device equipped in the EV(The EV user should equip this device) to send authorization information (RFID ID) after plug in the charging cable, once the ID is authorized by the Backend, the transaction starts, if not and cable remains plug, the Charger remains Preparing status 2. The second is through Remote start from the backend * There is no RFID Reader, swipe an unauthorized card can't be detected and send to the backend during a transaction * The ways to stop Transaction are: 1. Through the physic device from the EV side, only unplug the cable will send Stop Transaction message to the backend, if the cable remains plug, the status of the Charger will be SuspendedEV, after specific time(Depends on EV), the transaction restarts(Normally request from the EV) 2. Through the Remote Stop request from the backend, in this scenario, the Stop Transaction will send to the backend no matter the cable remains plug or unplug
7	Core	Charging Session - Local - Identification first - Connection Loss	2023-08-30 10:02:06	Y	* The Charger only Send Stop transaction message after the cable is unplugged, if the cable remains plug, Stop Transaction will not send to the backend * The Metervalues will not be cached during Offline and send to the backend when the charger return online * The Stop transaction send as expected * The MeterStart will be reseted to 0 for each transaction, the difference between MeterStop and MeterStart is used to generate the CDR, according to the Manufacturer, they have a internal key to store how much total energy the charger process during its service lifetime
8	Core	Charging session - Local - Identification first - Connection TimeOut	2023-07-27 10:05:25	N/A	Not applicable, please confirm the functionality of the ConnectionTimeout key
9	Core	Hard Reset - During Charging session	2023-07-27 10:26:53	Y	
10	Core	Hard Reset - No charging session	2023-07-27 10:28:54	Y	
11	Core	Soft Reset - During Charging session	2023-07-27 10:30:53	Y	
12	Core	Soft Reset - No charging session	2023-07-27 10:32:13	Y	
13	Core	Charging session - Local - Unauthorized	2023-07-27 10:35:51	Y	After plugging the cable into the vehicle and send the Authorization information from the device, the unauthorized information will be detected
14	Core	Charging session - Remote Start and Stop Transaction - Cable first	2023-07-27 10:40:52	Y	Plug in the cable in the EV and the charger remains Preparing status(The EV does not send authorization information from the device) will accept Remote Start Request
15	Core	Charging session - Remote Start Transaction - Request first - Unlock Connector	2023-07-27 10:46:01	N/A	Not applicable: * The Remote Start Request will be rejected when the cable is unplug * It is fixed cable on the charger which don't support unlock connector
16	Core	Hardware related notification / error condition	2023-07-27 10:47:34	Y	
17	Firmware Management	Remote Firmware update - Download failed	2023-07-27 10:52:09	Y	
18	Firmware Management	Remote Firmware update - Installation failed	2023-07-27 10:53:42	Y	* Received DownloadFailed instead of InstallationFailed
19	Firmware Management	Remote Firmware update - Download & install	2023-07-27 10:58:29	Y	* The URL is provided from the manufacturer pointing towards the Firmware, firmware updates should be done from the manufacturer or using the manufacturer provided URL * After accepting the firmware update request with the correct URL, we receive a Status Notification mentioning that Connector 1 is Available but with a VendorErrorCode(HiCPULoad) during downloading and installing, we recommend that during Firmware update, the charger send Unavailable Status Notification to the backend, this issue should be further checked with the charger implementation
20	Firmware Management	Remote get diagnostics report	2023-07-27 11:03:52	N/A	Not applicable, the Disgnostics file can only be obtained from the charger manufacturer. After sending the request, the charger return NULL
21	Firmware Management	Remote get diagnostics - fail	2023-07-27 11:05:31	N/A	Not applicable, the Disgnostics file can only be obtained from the charger manufacturer. After sending a wrong URL, the charger returns NULL instead of UploadFailed.
22	Core	Clear cache	2023-07-27 11:06:22	N	Clear cache is not implemented
23	Remote Trigger	TriggerMessage	2023-07-27 11:13:32	Y	Status Notification message works as expected. The Metervalue can only be triggered during Transaction, which can be accepted.