TestScript Charge Station connected with OCPP 1.6 to GreenFlux Platform

Manufacturer Name :Alfen BV
Manufacturer Number :ace0001593
Manufacturer Model :NG920-61002
Firmware Version :4.4.0-3106

#	Function	Acceptance Criteria	Result
1	Boot notification	• Receive a (not empty) BootNotification message, containing chargePointModel and chargePointVendor (required by OCPP 1.6), and chargePointSerialNumber, iccid, chargePointVendor, firmwareVersion and chargePointModel	*Request values: chargePointVendor=Alfen BV, chargePointModel=NG920-61002, chargePointSerialNumber=ace0001593, chargeBoxSerialNumber=A00003, firmwareVersion=4.4.0-3106, iccid=89462038005003992030, imsi=240075811404511, meterType=unset, meterSerialNumber=unsetResponse values: Status: Accepted; Heartbeat Interval: 3600, System Time: 2/18/2020 2:28:27 PM (UTC)*
2	Heartbeat (automatic)	• Receive OCPP command from CS i.e.. heartbeat registered • When CS is not providing heartbeat, send OCPP command to see heartbeat • Provide TCPIP default heartbeat at least every 1 hour from CS (configurable under Set Configuration).	OK
3	Change availability	• After sending ChangeAvailability with type Operative, the status must change to Available. • After sending ChangeAvailability with type Inoperative, the status must change to Unavailable. • This availability must be reflected by receiving a StatusNotification message (per socket) • Receive a (not empty) StatusNotification message per connector (including connector 0), containing: i. If not in error: status with Available, Preparing, Charging, SuspendedEV, SuspendedEVSE, Finishing, Reserved, Unavailable or Faulted ii. If in error: error details (errorCode)	OK
4	Get configuration (list parameters that can be read)	• After sending GetConfiguration() the Charge Station must respond with a GetConfiguration message, containing the total number of items, followed by a message with the complete list of items.	OK, received 125 items
5	Set configuration (set parameters that can be configured)	• After sending ChangeConfiguration (per item) a message with status Accepted must be received (and not “Not Supported”, “Not implemented”)	OK, MeterValueSampleInterval set to 60
6	Start charge transaction (both local notification and remote trigger)	• After sending RemoteStartTransaction the transaction must start, and a StartTransaction message (including transactionId) must be received, followed by several StatusNotification messages (according to OCPP 1.6) • Local StartTransaction should start with an Authorize, which – if approved – must be followed by a StartTransaction and several StatusNotification messages (according to OCPP 1.6). • If not approved the sequence must stop	OK, local charging done with plug&charge identifier.
7	Stop charge transaction (both local	• After sending RemoteStopTransaction (by using the transactionId) the transaction must stop, via a	OK, local stop done by disconnecting car.

	notification and remote trigger)	StopTransaction message, followed by several StatusNotification messages (according to OCPP 1.6) • Local StopTransaction starts with receiving a StopTransaction and several StatusNotification messages (according to OCPP 1.6) • When the charging cable is disconnected, a StopTransaction message must be received	
8	Receive Meter reading	• Meter values are received at the start of transaction and stop of transaction • Meter values are received, according to meter interval that can be set by user (at least 30 seconds interval when charging) Voltage, current and power reading are received, according to meter interval that can be set by user (at least 30 seconds interval)	OK
9	Reset CS (both hard and soft reset)	• Hard reset (ResetType 0): Charging Station comes online after reset (BootNotification message, StatusNotification message, etc.) • Soft reset (ResetType 1): Charging Station comes online after reset (BootNotification message, StatusNotification message, etc.)	OK
10	Any hardware related notifications or error conditions	• Create an error (e.g. disconnecting communication pin or power pin connection or create 3 phase imbalance supply), notifications to be represented in the StatusNotification messages. • Error messages on connector 0 are from the Charging Station itself.	NOT TESTED
11	Charging cable connection status	• Status to be represented in the StatusNotification messages. • When car is connected, the charging station changes from Available to Occupied and to Error (connection is timed out).	OK
12	Remote Firmware update	• Receive firmware file from manufacturer. • After sending UpdateFirmware, FirmwareStatusNotification message with FirmwareStatus “Downloading” must be received, followed by FirmwareStatusNotification message with FirmwareStatus “Installed”. • Automatically reboot if connectors are available	OK
13	Remotely initiate and get diagnostics reports	• After sending GetDiagnotics, with specific timeframe and ftp location, the Charging Station must send GetDiagnostics message and upload the diagnostic file to the specified ftp location	OK
14	Set charging profile or power control (for smart charging)	• After sending SetChargingProfile (per connector) a message with status Accepted must be received	OK
15	Smart Charging Enable/Disable	• Receive enable/disable status notification when smart charging enabled/disabled	OK
16	Get past charge transactions	• When Charging Station reconnects, after being offline, the cached transactions must be sent to the server automatically	OK
17	Clear cache (if applicable)	• After sending the ClearCache, a message with status Accepted must be received	OK

18	TriggerMessage	• After boopting the centralsystem will send a TriggerMessage requesting the status of the charger.	OK