

Protocol Implementation Conformance Statement

There are three PICS

1. PICS for OCPP1.6
2. PICS for OCPP1.6 Security
3. PICS for OCPP1.6 Performance

General information about Device Under Test (DUT)

Vendor name		
Device Under Test (DUT)	Charging Station	
Product subtype		
Communication		
Type / model		
OCPP Software version (DUT)		
Support for milliseconds in OCPP messages	Yes	No

Hardware feature set

Sockets / connector(s)		
Fixed cable	Yes	No
Communication technology		

RFID readers

Optional features (if applicable)

Other relevant values for testing. Please enter additional value name, including minimum and/or maximum values:

Feature	Supported / present
Authorization Cache	
Unknown Offline Authorization <i>MaxEnergyOnInvalidId</i>	
MinimumStatusDuration <i>If supported by a Charging Station, the station is to be delivered to the test lab with value set to 0.</i>	
WebSocketPingInterval (only for websocket implementations)	
Support reservations of entire Charging Station	
Choice transaction stopped when cable disconnected on EV side	

Other relevant settings and limits

The table below should contain all relevant limits and non-OCPP settings that are relevant for the test laboratory and for the correct functioning of the Charging Station:

Limit / setting	Value	
GetConfigurationMaxKeys		
MeterValuesAlignedDataMaxLength		
MeterValuesSampledDataMaxLength		
Minimum MeterValueSampleInterval supported		
Maximum MeterValueSampleInterval supported		
Minimum HeartbeatInterval supported		
Maximum HeartbeatInterval supported		
StopTransactionMaxMeterValues		
StopTxnAlignedDataMaxLength		
StopTxnSampledDataMaxLength		
WebSocketPingInterval		
Local Authorization List		
LocalAuthListMaxLength		
SendLocalListMaxLength		
Smart charging		
ChargeProfileMaxStackLevel		
ChargingScheduleAllowedChargingRateUnit		
ChargingScheduleMaxPeriods		
MaxChargingProfilesInstalled		
Firmware Management		
Supported file transfer protocols	http	https
	ftp	ftps
Other relevant values		
Name	Minimum	Maximum
Name	Minimum	Maximum
Name	Minimum	Maximum
Name	Minimum	Maximum
Name	Minimum	Maximum
Name	Minimum	Maximum

IP configuration

The test laboratory will provide information on the network configuration that has to be configured on the Charging Station beforehand.

1 PICS OCPP 1.6 certificate

The Table below states the mandatory and optional functionalities for certification. When a functionality is supported by the DUT, all applicable use cases must be supported, unless stated otherwise.

Functionalities	OCPP 1.6	Description
	Subset supported	
Core		Basic Charging Station functionality for booting, authorization (incl. cache if available), configuration, transactions, remote control.
Firmware Management		Support for (remote) firmware update management and diagnostic log file download.
Smart Charging		Support for Smart Charging (all profile types, including stacking), to control charging.
Reservation		Support for reservation of a connector of a Charging Station.
Local Authorization List Management		Features to manage a local list in the charging station containing authorization data for whitelisting users.
Remote Trigger		Support for remotely triggering messages that originate from a Charging Station. This can be used for resending messages or for getting the latest information from the Charging Station.

2 PICS OCPP 1.6 security certificate

Security extension (based on whitepaper, JSON only).

Supported cipher suites

Cipher suite	Supported
TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 AND TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384	
TLS_RSA_WITH_AES_128_GCM_SHA256 AND TLS_RSA_WITH_AES_256_GCM_SHA384	

Certificate Profiles

Name	Implemented	Description
Security Profile 1		Unsecured Transport with Basic Authentication Profile 1 is optional
Security Profile 2		TLS (1.2 or higher) with Basic Authentication Security profile 2 or security profile 3 or both must be implemented
Security Profile 3		TLS (1.2 or higher) with Client Side Certificates Security profile 2 or security profile 3 or both must be implemented

3 PICS related to performance for OCPP1.6

Name	Value	Unit	Description
OCPP triggered function timeout		seconds	The timeout used for when waiting for an OCPP function with its corresponding request message (e.g. time between receiving RemoteStartTransaction.conf and StartTransaction.req). Messages to the DUT can be handled within this timeout.
OCPP response timeout		seconds	The timeout used for exchanging OCPP response messages. Messages to the DUT can be handled within this timeout.
Response time RemoteStartTransaction		seconds	The response time for the RemoteStartTransaction message.
Communication technology used			(If multiple technologies available in a Charging Station)