

## 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

<b>Device Under Test (DUT)</b>	Charging Station	
<b>Communication</b>		
<b>Type / model</b>		
<b>OCPP Software version (DUT)</b>		
<b>Support for milliseconds in OCPP messages</b>	Yes	No

#### Hardware feature set

<b>Socket(s) / connector(s)</b>		
<b>Fixed cable</b>	Yes	No
<b>Communication technology</b>		

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

### 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		
<b>Local Authorization List</b>		
LocalAuthListMaxLength		
SendLocalListMaxLength		
<b>Smart charging</b>		
ChargeProfileMaxStackLevel		
ChargingScheduleAllowedChargingRateUnit		
ChargingScheduleMaxPeriods		
MaxChargingProfilesInstalled		
<b>Firmware Management</b>		
Supported file transfer protocols	http ftp	https ftps
<b>Other relevant values</b>		
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
<b>Fully supported</b>		
<b>Core</b>		<b>Basic Charging Station functionality for booting, authorization (incl. cache if available), configuration, transactions, remote control.</b>
<b>Firmware Management</b>		<b>Support for (remote) firmware update management and diagnostic log file download.</b>
<b>Smart Charging</b>		<b>Support for Smart Charging (all profile types, including stacking), to control charging.</b>
<b>Reservation</b>		<b>Support for reservation of a connector of a Charging Station.</b>
<b>Local Authorization List Management</b>		<b>Features to manage a local list in the charging station containing authorization data for whitelisting users.</b>
<b>Remote Trigger</b>		<b>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.</b>

## 2 PICS OCPP 1.6 security certificate

Security extension (based on whitepaper, JSON only).

### *Supported cipher suites*

Cipher suite	Supported
<b>TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256</b> <b>AND</b> <b>TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384</b>	
<b>TLS_RSA_WITH_AES_128_GCM_SHA256</b> <b>AND</b> <b>TLS_RSA_WITH_AES_256_GCM_SHA384</b>	

### *Certificate Profiles*

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

### 3 PICS related to performance for OCPP1.6

Name	Value	Unit	Description
<b>OCPP triggered function timeout</b>		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.
<b>OCPP response timeout</b>		seconds	The timeout used for exchanging OCPP response messages. Messages to the DUT can be handled within this timeout.
<b>Response time RemoteStartTransaction</b>		seconds	The response time for the RemoteStartTransaction message.
<b>Communication technology used</b>			(If multiple technologies available in a Charging Station)