



**Certificate Holder:** Shenzhen Winline Technology Co.,Ltd.  
**Certificate Number:** OCA.0016.0830.CS  
**Product Type:** Charging Station  
**Product Designation:** YLUXDxKEy  
**OCPP Software Version:** V02.01.089  
**Certification Date:** August 8, 2024

This certificate attests that the above mentioned product successfully completed certification testing in conformance with the reference specification OCPP 1.6 (Edition 2 FINAL, 2017-09-28 including Errata v4.0 Release, 2019-10-23) and Security Whitepaper Edition 3 (Improved security for OCPP 1.6-J v1.3, 2022-02-17). The optional OCPP protocol features that are covered by this certificate can be found in the Abstract of the Test Report that is part of this certificate.

Test cases have been performed as described in the test report referred to below. The results and remarks can be found in this complete test report.

Applied	Performed by / On	Document Evidence
Conformance testing according to the test specification referenced by the test report	DNV Singapore Ptd. Ltd. July 12, 2024	DNV_OCPP 1.6 PICS_CS_EV DC Charging Station_signed

The abstract of test report is an integral part of this certificate. This certificate is valid from the Certification Date specified above. This certificate is only applicable to the product designation described above and permits the use of the OCPP logo as laid down in the OCA certification logo license agreement on this product only.

This certificate shall neither be tendered nor accepted by any party as a guarantee covering quality of a product which includes OCPP. The Open Charge Alliance, and/or its agents, including, inter-alia, test laboratories, disclaim liability for any damages or losses incurred by the certified company or by any other party resulting from reliance on the results of OCPP certification testing.

For the Open Charge Alliance:

**ONOPH CARON**  
Chairman



## Abstract of the Test Report

### Test Report OCPP 1.6 Certification

<b>Test laboratory:</b>	<b>DNV Singapore Ptd. Ltd.</b>
Location:	Singapore
Test Report Reference:	DNV_OCPP 1.6_TEST_CS_EV DC Charging Station
<b>Product Designation:</b>	<b>YLUXDxKEy</b>
Vendor name:	Shenzhen Winline Technology Co.,Ltd.
Device Under Test:	Charging Station
OCPP Software Version	V02.01.089

### Test Result Summary for the Certified Functionalities

Certification Profile	Test Result	Description
Core	Pass	Basic Charging Station, functionality for booting, authorization, configuration, transactions, remote control.
Firmware Management	Pass	Support for firmware update management and diagnostic log file download.
Local Authorization List Management	Pass	Features to manage a local list in the charging station containing authorization data for whitelisting users.
Smart Charging	Pass	Support for Smart Charging, to control charging.
Remote Trigger	Pass	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.
Reservation	Pass	Support for reservation of a connector of a Charging Station.

Certification Extension	Test Result	Description
Security extension	Pass	Implementation of the whitepaper: Improved security for OCPP 1.6-J



## Hardware Feature Set

ID	Feature	Supported / Present
HFS-1	Has a detachable cable	No
HFS-2	Has a fixed cable	Yes
HFS-3	Has AC support	No
HFS-4	Has DC support	Yes
HFS-5	Has 1 phase support	No
HFS-6	Has 2 phase support	No
HFS-7	Has 3 phase support	No
HFS-8	No. Connectors	2
HFS-9	Communication technology	WiFi/Ethernet/4G
HFS-10	RFID readers	Single

Connector	Current	Phases	Type	Cable Type
1	DC		cCCS2	Fixed Cable
2	DC		cCCS2	Fixed Cable

## Optional Features

### Core

ID	Core Features	Supported / Present
C-01	Support for offline authorization of transactions	Yes
C-02	Support for allowing Offline Authorization for Unknown Ids	Yes
C-03	Support for maximizing energy for invalid ids	No
C-04	Authorization Cache	Yes
C-05	Support to limit StatusNotifications	No
C-06	Authorization status after cable disconnected on EV side	
C-06.1	Support for maintaining authorization when cable disconnected on EV side	No
C-06.2	Support for not maintaining authorization when cable disconnected on EV side	Yes
C-07	Support for local start	Yes
C-08	Support for local stop	Yes



ID	Metervalues	Tested During Certification	Supported According to Vendor
C-09	Supported MeterValue Measurands		
C-09.1	MeterValuesSampledData	Current.Import Temperature Energy.Active.Import.Register Power.Active.Import Voltage SoC	Energy.Active.Import.Register Temperature Current.Import Voltage Power.Active.Import SoC
C-09.2	MeterValuesAlignedData	Current.Import Temperature Energy.Active.Import.Register Power.Active.Import Voltage SoC	Energy.Active.Import.Register Temperature Current.Import Voltage Power.Active.Import SoC

### Smart Charging

ID	Certification Profile: Smart Charging	Supported / Present
SC-1	Supported charging rate units	
SC-1.1	A	No
SC-1.2	W	Yes

### Reservation

ID	Certification Profile: Reservation	Supported / Present
R-1	Support reservations of entire Charging Station	Yes

### Firmware Management

ID	Certification Profile: Firmware Management	Supported / Present
F-1	Support for Secure Firmware Updates	True



## Security Extension

ID	Security Extension	Supported / Present
SEC-1	Security Profile 1: Unsecured Transport with Basic Authentication	Yes
SEC-2	Security Profile 2: TLS with Basic Authentication	Yes
SEC-3	Security Profile 3: TLS with Client Side Certificates	Yes

ID	Security Extension : Cipher Suites	Supported / Present
SEC-4	Supported Cipher Suites	TLS_RSA_WITH_AES_128_GCM_SHA256 TLS_RSA_WITH_AES_256_GCM_SHA384

## Additional Questions

ID	Additional Questions for Lab Testing	Supported / Present
AQ-1	Can the last CentralSystemRootCertificate can be removed?	Yes
AQ-2	Does the Charging Station have a cable lock, which prevents the EV driver to connect the EV and EVSE before authorization?	No
AQ-3	Can the last ChargePointCertificate be removed?	No
AQ-4	Is your Charging Station able to download firmware while there is an ongoing transaction?	No
AQ-5	Does your Charging Station enforce a selection of EVSE prior to authorization?	No
AQ-6	Does your Charging Station support charging an EV using IEC 61851-1?	No
AQ-7	Reporting of StopTransaction after power loss	
AQ-7.1	Charge Point configured to report StopTransaction before going down.	No
AQ-7.2	Charge Point configured to report StopTransaction after going down and being back online again.	Yes



## Other Relevant Settings

ID	Limit / Setting	Value
ORS-1	GetConfigurationMaxKeys	100
ORS-2	MeterValuesAlignedDataMaxLength	7
ORS-3	MeterValuesSampledDataMaxLength	7
ORS-4	Minimum MeterValueSampleInterval supported	5
ORS-5	Maximum MeterValueSampleInterval supported	5
ORS-6	Minimum HeartbeatInterval supported	5
ORS-7	Maximum HeartbeatInterval supported	2000
ORS-9	StopTxnAlignedDataMaxLength	7
ORS-10	StopTxnSampledDataMaxLength	7
ORS-11	WebSocketPingInterval	50

ID	Certification Profile: Local Authorization List Management	Value
ORS-12	LocalAuthListMaxLength	500
ORS-13	SendLocalListMaxLength	20

ID	Certification Profile: Smart Charging	Value
ORS-14	ChargingProfileMaxStackLevel	20
ORS-15	ChargingScheduleMaxPeriods	10

ID	Firmware Management Settings	Value
ORS-16	Supported file transfer protocols	ftp/http/https



## Vendor Specific Settings

Configuration Setting	Configured Value	Description
ocppid		chargeboxid
publickwhrate	...	charging rate
proauthenticationvalue		Pre-authorized amount when use POS machine
vatrate	...	vatrate
vatcompanydetail		vatcompanydetail
enablefreevend	...	Free charging is allowed
freevendkwhlimit		Energy that allows free charging at one time
freevendwaitperiod	...	The interval between two free-charging
kwhpermile		One kilometer of energy consumed
paymentterminalserialnumber	...	POS machine SN
PaymentTerminalIPAddress		IP of the POS machine
MinimumChargeValue	...	Charges are not calculated for energy below this
CurrencyType	S\$	CurrencyType
Language	English	Language
TimeZone	Shanghai	TimeZone
QRcode2	...	QRcode used for APP
QRcode1		QRcode used for APP



## Performance Measurement Result

Name	Max Value	Unit	Description
OCPP response timeout	2	seconds	The timeout used for exchanging OCPP response messages. Messages to the DUT can be handled within this timeout.
OCPP triggered function timeout	3	seconds	The timeout used for when waiting for an OCPP function with its corresponding request message. Messages to the DUT can be handled within this timeout. This value excludes firmware, diagnostics and rebooting
Transaction authorization time by RemoteStartTransaction	60	seconds	The time between the RemoteStartTransaction.req message and the corresponding StartTransaction.req. Only cases where the RemoteStartTransaction immediately results in an authorization followed by a StartTransaction.req are included.
Transaction authorization end time by RemoteStopTransaction	15	seconds	The time between the RemoteStopTransaction.req message and the corresponding StopTransaction.req. Only cases where the RemoteStopTransaction immediately results in an end of the authorization followed by a StopTransaction.req are included.

Name	Min Value	Max Value	Average Value	Unit
OCPP response timeout	0.24	1.40	0.50	seconds
OCPP triggered function timeout	0.73	2.99	1.80	seconds
Transaction authorization time by RemoteStartTransaction	44.00	44.00	44.00	seconds
Transaction authorization end time by RemoteStopTransaction	10.01	10.01	10.01	seconds


Communication technology used during performance measurement:	Ethernet
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## Statement of Approval

Vendor		
Name	Mr. Cirong LU	Date: 2024-08-08
Company	Shenzhen Winline Technology Co., Ltd.	Signature:
Department	Testing Department	
Position	Manager	
Location	Shenzhen, P.R.China	

Test Laboratory		
Name	Liu Xinyang	Date: 2024-08-08
Company	DNV Singapore Ptd. Ltd.	Signature:
Department	Energy Systems	
Position	Consultant	
Location	Singapore	