

E DIN EN ISO 15118-4:2024-12 (E)

Erscheinungsdatum: 2024-11-22

Road vehicles - Vehicle to grid communication interface - Part 4: Network and application protocol conformance test (ISO/DIS 15118-4:2024); English version prEN ISO 15118-4:2024

Contents		Page
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Abbreviated terms	7
5	Conventions	8
5.1	Requirement structure	8
5.2	Test system description	8
6	Test architecture reference model.....	8
6.1	General information	8
6.2	Platform adapter interface	9
6.3	SUT adapter interfaces	9
6.4	Codecs.....	12
7	Test suite conventions.....	12
7.1	General information	12
7.2	Test suite structure (TSS).....	13
7.3	Test profiles	15
7.4	Test suite identifiers.....	23
7.5	Test suite coverage	29
7.6	Test case description.....	171
7.7	Test case specification	172
8	Test case descriptions for 15118-2 V2GTP	186
8.1	General information	186
8.2	SECC test cases	186
8.3	EVCC test cases	190
9	Test case descriptions for 15118-2 SDP messages.....	196
9.1	General information	196
9.2	SECC test cases	196
9.3	EVCC test cases	199
10	Test case descriptions for 15118-2 V2G application layer messages	234
10.1	General information	234
10.2	SECC test cases	234
10.3	EVCC test cases	412
11	Reliability and Robustness Testing.....	682
11.1	General information	682
11.2	SECC test cases	682
11.3	EVCC test cases	685
Annex A (normative) Configuration specifications		692
A.1	General information	692
A.2	Parameter configuration	692
A.3	Timer configuration	698
A.4	PICS configuration	699
A.5	PIXIT configuration.....	700
Annex B (normative) Test-case specifications for 15118-2 V2GTP		703
B.1	General information	703
B.2	SECC test cases	703
B.3	EVCC test cases	706

Annex C (normative) Test-case specifications for 15118-2 SDP messages	711
C.1 General information	711
C.2 SECC test cases	711
C.3 EVCC test cases	713
Annex D (normative) Test-case specifications for 15118-2 V2G application layer messages	736
D.1 General information	736
D.2 SECC test cases	736
D.3 EVCC test cases	836
Annex E (normative) Test-case specifications for 15118-2 Reliability and Robustness Testing	1005
E.1 General information	1005
E.2 SECC test cases	1005
E.3 EVCC test cases	1009
Annex F (normative) Function specifications for supporting test execution	1017
F.1 General information	1017
F.2 Configuration functions	1017
F.3 Pre-condition functions	1019
F.4 Post-condition functions	1051
F.5 Common behavior functions	1053
F.6 Library functions	1058
Annex G (normative) Function specifications for 15118-2 V2GTP	1068
G.1 General information	1068
G.2 SECC functions	1068
G.3 EVCC functions	1070
Annex H (normative) Function specifications for 15118-2 SDP messages	1074
H.1 General information	1074
H.2 SECC functions	1074
H.3 EVCC functions	1076
Annex I (normative) Function specifications for 15118-2 V2G application layer messages	1080
I.1 General information	1080
I.2 SECC functions	1080
I.3 EVCC functions	1276
Annex J (normative) Function specifications for 15118-2 Reliability and Robustness Testing	1477
J.1 General information	1477
J.2 SECC functions	1477
J.3 EVCC functions	1483
Annex K (normative) Template specifications for V2G TCP/TLS Port Control	1510
K.1 General information	1510
K.2 V2G TCP/TLS port control templates	1510
Annex L (normative) Template specifications for 15118-2 V2GTP	1512
L.1 General information	1512
L.2 Common templates	1512
Annex M (normative) Template specifications for 15118-2 SDP messages	1514
M.1 General information	1514
M.2 Common templates	1514
Annex N (normative) Template specifications for 15118-2 V2G application layer messages ...	1515
N.1 General information	1515
N.2 Common templates	1515
N.3 SECC templates	1527
N.4 EVCC templates	1539
Annex O (normative) Template specifications for Security	1568
O.1 General information	1568
O.2 Common templates	1568

Annex P (normative) Data type definitions	1573
P.1 General information	1573
P.2 Data types for PICS	1573
P.3 Data types for PIXIT	1574
P.4 Data types for V2G TCP/TLS Port Control	1576
P.5 Data types for V2GTP	1576
P.6 Data types for SDP messages	1577
P.7 Data types for V2G messages	1578
P.8 Data types for Security	1598
Annex Q (informative) Overview of changed test cases compared to ISO 15118-4:2018	1600
Bibliography	1612