ISO/PAS 15118-23:2026-04 (E)

Road vehicles - Vehicle to grid communication interface - Part 23: Second generation network layer and application layer requirements conformance test plan for DC charging

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **2**

4 Abbreviated terms **2**

5 Conventions **3**
5.1 Requirement structure 3
5.2 Test system description 3

6 Test architecture reference model **3**
6.1 General information 3
6.2 Platform adapter 3
6.3 SUT adapters 3
6.3.1 General information 3
6.3.2 IEC 61851-1 SUT adapter 3
6.3.3 ISO 15118-20 SUT adapter 4
6.3.4 ISO 15118-3 SUT adapter 4
6.4 Codecs 4
6.5 Test system timer handling 4
6.5.1 Definition of test system timers and timeouts 4
6.5.2 Test system timer scenarios for SUT SECC 4
6.5.3 Test system timer scenarios for SUT EVCC 4

7 Test suite conventions **5**
7.1 General information 5
7.2 Test suite structure (TSS) 5
7.3 Test profiles 5
7.3.1 General information 5
7.3.2 Test configurations 5
7.3.3 Protocol implementation conformance statement (PICS) definition 6
7.3.4 Protocol implementation extra information for testing (PIXIT) definition 6
7.3.5 Test control 6
7.3.6 Test system template messages 7
7.4 Test suite identifiers 7
7.4.1 General information 7
7.4.2 Test case identifiers 7
7.4.3 PICS/PIXIT identifiers 7
7.4.4 Verdict types 7
7.5 Test case specification 7

8 Test case specification for DC charging ISO 15118-20 requirements **7**
8.1 General information 7
8.2 Test cases for SUT SECC 8
8.2.1 SECC V2GTP test case specifications 8
8.2.2 SECC common message flow test case specifications 15
8.2.3 SECC DC message flow test case specifications 21

8.3 Test cases for SUT EVCC 48
8.3.1 EVCC V2GTP test case specifications 48
8.3.2 EVCC common message flow test case specifications 53
8.3.3 EVCC DC message flow test case specifications 58
Annex A (informative) **Test suite coverage** **92**
Bibliography **98**