



**Core Network and Interoperability Testing (INT);
Diameter Conformance testing for Gx interface
(3GPP Release 10);
Part 3: Abstract Test Suite (ATS) and partial Protocol
Implementation eXtra Information for Testing (PIXIT)
proforma specification**

Reference

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Contents

Intellectual Property Rights	4
Foreword.....	4
1 Scope	5
2 References	5
2.1 Normative references	5
2.2 Informative references.....	6
3 Definitions and abbreviations.....	6
3.1 Definitions.....	6
3.2 Abbreviations	6
4 Abstract Test Method (ATM).....	6
4.1 Test architecture	6
4.1.1 Test method	6
4.1.2 Test machine configuration.....	6
4.1.2.1 Test configurations for PCEF testing	6
4.1.2.2 Test configurations for PCRF testing	7
4.1.3 Interconnection of TS and SUT	8
4.1.3.1 PCEF Role.....	8
4.1.3.2 PCRF Role	9
4.1.3.3 Test Adapter.....	10
5 ATS conventions	10
5.1 Testing conventions.....	10
5.1.1 Test cases Preamble and Postamble.....	10
5.2 Naming conventions.....	10
5.2.1 General guidelines	10
5.2.2 Test case grouping	11
5.2.3 Test case identifiers	12
Annex A (normative): DIAMETER Gx Partial PIXIT proforma	13
A.1 Identification summary.....	13
A.2 ATS summary	13
A.3 Test laboratory.....	13
A.4 Client identification.....	13
A.5 SUT	14
A.6 Protocol layer information.....	14
A.6.1 Protocol identification	14
A.7 PIXIT items	15
A.7.1 Gx related PIXIT items	15
A.7.2 Rx related PIXIT items.....	17
Annex B (normative): DIAMETER Gx Abstract Test Suite (ATS)	18
B.1 The TTCN-3 Module.....	18
History	19

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Core Network and Interoperability Testing (INT).

The present document is part 3 of a multi-part deliverable covering the test specifications for the Diameter protocol on the Gx interface, as identified below:

- Part 1: "Protocol Implementation Conformance Statement (PICS)";
- Part 2: "Test Suite Structure (TSS) and Test Purposes (TP)";
- Part 3: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".**

1 Scope

The present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the test specifications for Diameter protocol on the Gx interface as specified in TS 129 212 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [5] and ETS 300 406 [6].

The test notation used in the ATS is TTCN-3 (see ES 201 873-1 [7]).

The following test specification and design considerations can be found in the body of the present document:

- the overall test suite structure;
- the testing architecture;
- the test methods and port definitions;
- the test configurations;
- TTCN styles and conventions;
- the partial PIXIT proforma;
- the modules containing the TTCN-3 ATS.

Annex A provides the Partial Implementation Extra Information for Testing (PIXIT) Proforma.

Annex B provides the Abstract Test Suite (ATS) part of the ATS.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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2.1 Normative references

The following referenced documents are necessary for the application of the present document.

- [1] ETSI TS 129 212 (V10.5.0): "Universal Mobile Telecommunications System (UMTS); LTE; Policy and charging control over Gx/Sd reference point (3GPP TS 29.212 version 10.5.0 Release 10)".
- [2] ETSI TS 101 606-2: "IMS Network Testing (INT); Diameter Conformance testing for Gx interface; Part 2: Test Suite Structure (TSS) and Test Purposes (TP)".
- [3] ISO/IEC 9646-1: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 1: General concepts".
- [4] ISO/IEC 9646-6: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 6: Protocol profile test specification".
- [5] ISO/IEC 9646-7: "Information technology -- Open Systems Interconnection -- Conformance testing methodology and framework -- Part 7: Implementation Conformance Statements".