



TECHNICAL SPECIFICATION

**Mission Critical (MC) services;
Mission Critical Data (MCData) Application Server (AS)
Protocol conformance specification for
server-to-server interface including
InterWorking Function (IWF) to non-3GPP systems;
Part 2: Test Applicability and Implementation
Conformance Statement (ICS) proforma specification**

Reference

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Keywords

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee TETRA and Critical Communications Evolution (TCCE).

The present document is based on ETSI TS 136 579-4 [i.6] (3GPP TS 36.579-4) produced by the 3rd Generation Partnership Project (3GPP).

The present document is part 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 [5].

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

Introduction

The ETSI Technical Specification used as the reference document for the present document is part 4 of a multi-part deliverable covering conformance test specification for Mission Critical Services over LTE consisting of:

- ETSI TS 136 579-1 [1]: "LTE; Mission Critical (MC) services over LTE; Part 1: Common test environment (3GPP TS 36.579-1)";
- ETSI TS 136 579-2 [i.2]: "LTE; Mission Critical (MC) services over LTE; Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-2)";
- ETSI TS 136 579-3 [i.3]: "LTE; Mission Critical (MC) services over LTE; Part 3: Mission Critical Push To Talk (MCPTT) Server Application conformance specification (3GPP TS 36.579-3)";
- **ETSI TS 136 579-4 [i.6]: "LTE; Mission Critical (MC) services over LTE; Part 4: Test Applicability and Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.579-4)";**
- ETSI TS 136 579-5 [2]: "LTE; Mission Critical (MC) services over LTE; Part 5: Abstract test suite (ATS) (3GPP TS 36.579-5)";
- ETSI TS 136 579-6 [i.7]: "LTE; Mission Critical (MC) services over LTE; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-6)";
- ETSI TS 136 579-7 [i.8]: "LTE; Mission Critical (MC) services over LTE; Part 7: Mission Critical Data (MCData) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-7)";
- 3GPP TS 36.579-8 [i.9]: "Mission Critical (MC) services over LTE; Part 8: Mission Critical Video (MCVideo) Server Application conformance specification";
- 3GPP TS 36.579-9 [i.10]: "Mission Critical (MC) services over LTE; Part 9: Mission Critical Data (MCData) Server Application conformance specification".

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for testing Server implementations for compliance to the Mission Critical Services over LTE protocol requirements defined by 3GPP, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [i.5] and ISO/IEC 9646-7 [3].

The present document specifies the recommended applicability statement for the test cases included in ETSI TS 104 150-1 [5]. These applicability statements are based on the features implemented in the Server respectively.

The present document is valid for Mission Critical Data (MCData) Servers and MCData IWF implemented according to 3GPP releases starting from Release 14 up to the Release indicated on the cover page of the present document.

The present document does not specify applicability or ICS for protocol conformance testing for the EPS (LTE) bearers which carry the Mission Critical Services data sent or received by the Client and/or the Server. These are defined in ETSI TS 136 523-2 [i.4] (3GPP TS 36.523-2).

2 References

2.1 Normative 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 referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found in the [ETSI docbox](#).

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

- [1] [ETSI TS 136 579-1](#): "LTE; Mission Critical (MC) services over LTE; Part 1: Common test environment (3GPP TS 36.579-1)".
- [2] [ETSI TS 136 579-5](#): "LTE; Mission Critical (MC) services over LTE; Part 5: Abstract test suite (ATS) (3GPP TS 36.579-5)".
- [3] [ISO/IEC 9646-7](#): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [4] [ETSI TS 123 282](#): "LTE; Functional architecture and information flows to support Mission Critical Data (MCData); Stage 2 (3GPP TS 23.282)".
- [5] [ETSI TS 104 150-1](#): "Mission Critical (MC) services; Mission Critical Data (MCData) Application Server (AS) Protocol conformance specification for server-to-server interface including InterWorking Function (IWF) to non-3GPP systems; Part 1: Test structure, configurations, conformance requirement and test purposes".
- [6] [ETSI TS 123 283](#): "LTE; Mission Critical Communication Interworking with Land Mobile Radio Systems (3GPP TS 23.283)".

2.2 Informative references

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The following referenced documents may be useful in implementing an ETSI deliverable or add to the reader's understanding, but are not required for conformance to the present document.

- [i.1] ETSI TR 121 905: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Vocabulary for 3GPP Specifications (3GPP TR 21.905)".
- [i.2] [ETSI TS 136 579-2](#): "LTE; Mission Critical (MC) services over LTE; Part 2: Mission Critical Push To Talk (MCPTT) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-2)".
- [i.3] [ETSI TS 136 579-3](#): "LTE; Mission Critical (MC) services over LTE; Part 3: Mission Critical Push To Talk (MCPTT) Server Application conformance specification (3GPP TS 36.579-3)".
- [i.4] [ETSI TS 136 523-2](#): "LTE; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.523-2)".
- [i.5] [ISO/IEC 9646-1](#): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [i.6] [ETSI TS 136 579-4](#): "LTE; Mission Critical (MC) services over LTE; Part 4: Test Applicability and Implementation Conformance Statement (ICS) proforma specification (3GPP TS 36.579-4)".
- [i.7] [ETSI TS 136 579-6](#): "LTE; Mission Critical (MC) services over LTE; Part 6: Mission Critical Video (MCVideo) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-6)".
- [i.8] [ETSI TS 136 579-7](#): "LTE; Mission Critical (MC) services over LTE; Part 7: Mission Critical Data (MCData) User Equipment (UE) Protocol conformance specification (3GPP TS 36.579-7)".
- [i.9] 3GPP TS 36.579-8: "Mission Critical (MC) services over LTE; Part 8: Mission Critical Video (MCVideo) Server Application conformance specification".
- [i.10] 3GPP TS 36.579-9: "Mission Critical (MC) services over LTE; Part 9: Mission Critical Data (MCData) Server Application conformance specification".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the terms given in ETSI TR 121 905 [i.1] (3GPP TR 21.905) and the following apply:

NOTE 1: A term defined in the present document takes precedence over the definition of the same term, if any, in ETSI TR 121 905 [i.1] (3GPP TR 21.905).

In addition for the purposes of the present document, the following terms, definitions, symbols and abbreviations apply:

- such given in ISO/IEC 9646-1 [i.5] and ISO/IEC 9646-7 [3].

NOTE 2: Some terms and abbreviations defined in ISO/IEC 9646-1 [i.5] and ISO/IEC 9646-7 [3] are explicitly included below with small modification to reflect the terminology used in 3GPP.

ICS proforma: form of a questionnaire, which when completed for an implementation or system becomes an ICS

Implementation Conformance Statement (ICS): statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented

Implementation eXtra Information for Testing (IXIT): statement made by a supplier or implementer of an UEUT which contains or references all of the information (in addition to that given in the ICS) related to the UEUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the UEUT

IUT containing MCX Client: statement identifying which entity, and associated requirements, from the MCX service architecture is subject of testing

NOTE: Depending on the ETSI TS 136 579-5 [2] (3GPP TS 36.579-5) test model being used, the LTE UE (with the MCX Client installed) is considered as the IUT (MCX EUTRA test model), or, only the MCX Client is considered as the IUT (MCX IPCAN test model). In both cases the SUT is the UE, communicating with the SS over the Uu radio interface.

IXIT proforma: document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT

Protocol Implementation Conformance Statement (PICS): ICS for an implementation or system claimed to conform to a given protocol specification

Protocol Implementation eXtra Information for Testing (PIXIT): IXIT related to testing for conformance to a given protocol specification

static conformance review: review of the extent to which the static conformance requirements are claimed to be supported by the UEUT, by comparing the answers in the ICS(s) with the static conformance requirements expressed in the relevant specification(s)

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI TR 121 905 [i.1] (3GPP TR 21.905) and the following apply:

NOTE: An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in ETSI TR 121 905 [i.1] (3GPP TR 21.905).

ICS	Implementation Conformance Statement
IPCAN	IP Connectivity Access Network
IUT	Implementation Under Test
IWF	Inter-Working Function
IXIT	Implementation eXtra Information for Testing
MC	Mission Critical
MCDData	Mission Critical Data
MCPTT	Mission Critical Push To Talk
MCVideo	Mission Critical Video
TC	Test Case

4 Recommended Test Case Applicability

The applicability of each individual test is identified in Table 4-1 (MCDData Server) and Table 4-2 (MCDData IWF). This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of the present document.

Additional information related to the Test Case (TC), e.g. affecting its dynamic behaviour or its execution may be provided as well

The columns in Table 4-1 have the following meaning:

Clause

The clause column indicates the clause number in ETSI TS 104 150-1 [5] respectively which contains the test body.

Title

The title column describes the name of the test and contains the clause title of the clause in ETSI TS 104 150-1 [5] respectively which contains the test body.

Release

The release column indicates the earliest release from which the test case is applicable. In some specific cases it may indicate the release(s) for which the TC is **only** applicable.

NOTE 1: Some exceptions to this interpretation may be indicated in Notes in column 'Number of TC Executions'.

Applicability - Condition

The following notations are used for the applicability column:

R	recommended - the test case is recommended
O	optional - the test case is optional
N/A	not applicable - in the given context, the test case is not recommended.
C _i	conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

NOTE 2: The conditions are defined in Table 4-1a (MCDData Server) and Table 4-2a (MCDData IWF). To avoid ambiguity for the MCDData Server testing conditions the notation of CC_i is used.

Applicability - Comments

This column contains a verbal description of the condition.

Additional Information - Specific ICS

This column contains the mnemonics of ICS(s) affecting the dynamic behaviour of the TC.

NOTE 3: ICS items specified in other test specifications can be referred, to avoid redundant definitions.

Additional Information - Specific IXIT

This column contains the mnemonics of IXIT(s) affecting the dynamic behaviour of the TC. IXITs are defined in ETSI TS 136 579-5 [2] (3GPP TS 36.579-5).

Additional Information - Number of TC Executions

This column contains, wherever applicable, the recommended for certification purposes number of TC executions. It may contain also other information e.g. exceptions to the release applicable to the test. Clarifying notes when available are listed in dedicated tables with table numbers having the suffix "b".

Table 4-1: Applicability of MCDATA Server tests and additional information for testing

Clause	TC Title	Release	Applicability		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
5	MCDATA Server - MCDATA Server operation						
5.1	Configuration						
5.1.1	MCDATA Server - MCDATA Server / Configuration / Group Affiliation / De-Affiliation / Controlling server	Rel-15	CC01	IUT is MCDATA Server			
5.1.2	MCDATA Server - MCDATA Server / Configuration / Group Affiliation / De-Affiliation / Participating server	Rel-15	CC04	IUT is MCDATA Server			
5.1.3	MCDATA Server - MCDATA Server / Configuration / Functional Alias / Functional alias status determination / Activate functional alias / Deactivate functional alias / Controlling server	Rel-15	CC01	IUT is MCDATA Server			
5.1.4	MCDATA Server - MCDATA Server / Configuration / Functional Alias / Functional alias status determination / Activate functional alias / Deactivate functional alias / Participating server	Rel-15	CC04	IUT is MCDATA Server			
5.2	Short Data Service						
5.2.1	MCDATA Server - MCDATA Server / Short Data Service (SDS) / Standalone SDS Using Signalling Control Plane / One-to-one Standalone SDS / Controlling server	Rel-15	CC02	IUT is MCDATA Server			
5.2.2	MCDATA Server - MCDATA Server / Short Data Service (SDS) / Standalone SDS Using Signalling Control Plane / One-to-one Standalone SDS / Participating server	Rel-15	CC05	IUT is MCDATA Server			
5.2.3	MCDATA Server - MCDATA Server / Short Data Service (SDS) / Standalone SDS Using Media Plane / Group Standalone SDS / Controlling server	Rel-15	CC02	IUT is MCDATA Server			
5.3	File Distribution						
5.3.1	MCDATA Server - MCDATA Server / File Distribution (FD) / FD Using HTTP / One-to-one Standalone FD / Non-Mandatory Download / FILE DOWNLOAD REQUEST ACCEPTED / FILE DOWNLOAD COMPLETED / FILE DOWNLOAD REQUEST REJECTED / FILE DOWNLOAD DEFERRED / Controlling server	Rel-15	CC03	IUT is MCDATA Server			
5.3.2	MCDATA Server - MCDATA Server / File Distribution (FD) / FD Using HTTP / Group Standalone FD / Mandatory Download / Without Disposition Request / Controlling server	Rel-15	CC03	IUT is MCDATA Server			
5.4	Enhanced Status (ES)						
5.4.1	MCDATA Server - MCDATA Server / Enhanced Status (ES) / Controlling server	Rel-15	CC02	IUT is MCDATA Server			
5.4.2	MCDATA Server - MCDATA Server / Enhanced Status (ES) / Participating server	Rel-15	CC05	IUT is MCDATA Server			

Table 4-1a: Applicability of tests Conditions MCDData Server

CC01	IF A.4.1-1/1 THEN R ELSE N/A
CC02	IF A.4.1-1/1 AND A.4.2-1/1 THEN R ELSE N/A
CC03	IF A.4.1-1/1 AND A.4.2-1/2 THEN R ELSE N/A
CC04	IF A.4.1-1/2 THEN R ELSE N/A
CC05	IF A.4.1-1/2 AND A.4.2-1/1 THEN R ELSE N/A

Table 4-2: Applicability of MCDData IWF tests and additional information for testing

Clause	TC Title	Release	Applicability		Additional Information		
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions
6	IWF - MCDData Server operation						
6.1	IWF - MCDATA Server / Short Data Service (SDS) / Standalone SDS Using Signalling Control Plane / One-to-one Standalone SDS / IWF Controlling role	Rel-15	CC01	IUT is IWF Server			
6.2	IWF - MCDATA Server / Short Data Service (SDS) / Standalone SDS Using Signalling Control Plane / One-to-one Standalone SDS / IWF Participating role	Rel-15	CC02	IUT is IWF Server			

Table 4-2a: Applicability of tests Conditions MCDData IWF

CC01	IF A.4.1-1/3 THEN R ELSE N/A
CC02	IF A.4.1-1/4 THEN R ELSE N/A

Annex A (normative): ICS pro forma for Mission Critical Services

A.0 The right to copy

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the ICS proforma for Mission Critical Services proforma in this Annex so that it can be used for its intended purposes and may further publish the completed ICS proforma for Mission Critical Services.

A.1 Guidance for completing the ICS proforma

A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner.

The ICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: Client implementation, Server implementation, etc.).

A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [3].

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Reference column

The reference column gives reference to the relevant ETSI core specifications.

Release column

The release column indicates the earliest release from which the capability or option is relevant.

Mnemonic column

The Mnemonic column contains mnemonic identifiers for each item.

Comments column

This column is left blank for particular use by the reader of the present document.

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

A.2 Identification of the IWF/MCData Server Equipment

A.2.0 Introduction

Identification of the MCData Server or MCData IWF should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

A.2.1 Date of the statement

.....

A.2.2 IWF/MCData Server under test identification

IWF/MCData Server under test name:

.....
.....

Hardware configuration:

.....
.....
.....

Software configuration:

.....
.....
.....

A.2.3 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.4 The Organisation responsible for the Product testing

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.5 ICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

A.3 Identification of the protocol

This ICS proforma applies to the ETSI standards listed in the normative references clause of the present document.

A.4 ICS proforma tables

A.4.1 Implementation Types

Table A.4.1-1: Mission Critical Services general functionality

Item	Functionality	Ref.	Release	Mnemonic	Comments
1	MCDATA Server performing Controlling role	ETSI TS 123 282 (3GPP TS 23.282)	Rel-15	pc_MCDATAserver_Controlling	
2	MCDATA Server performing Originating and Terminating Participating roles	ETSI TS 123 282 (3GPP TS 23.282)	Rel-15	pc_MCDATAserver_Participating	
3	IWF performing MCDATA Controlling role	ETSI TS 123 283 (3GPP TS 23.283)	Rel-15	pc_MCDATAIWF_Controling	
4	IWF performing MCDATA Originating and Terminating Participating roles	ETSI TS 123 283 (3GPP TS 23.283)	Rel-15	pc_MCDATAIWF_Participating	

A.4.2 Additional information

Table A.4.2-1: Additional information

Item	Additional information	Ref.	Release	Mnemonic	Comments
1	Support of MCDData Short Data Service (SDS)	ETSI TS 123 282 (3GPP TS 23.282)	Rel-14	pc_MCDData_SDS	
2	Support of MCDData File Distribution (FD)	ETSI TS 123 282 (3GPP TS 23.282)	Rel-14	pc_MCDData_FD	

History

Version	Date	Status
V1.1.1	February 2026	Publication