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Digital cellular telecommunications system (Phase 2) (GSM); Mobile Station (MS) conformance specification; Part 3: Layer 3 (L3) Abstract Test Suite (ATS) (GSM 11.10-3 version 4.22.1)

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ICS:

33.070.50	Globalni sistem za mobilno telekomunikacijo (GSM)	Global System for Mobile Communication (GSM)
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**Digital cellular telecommunications system (Phase 2);
Mobile Station (MS) conformance specification;
Part 3: Layer 3 (L3) Abstract Test Suite (ATS)
(GSM 11.10-3 version 4.22.1)**

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Special Mobile Group (SMG) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS describes the technical characteristics and methods of test for Mobile Stations (MSs), operating in the 900 MHz and 1 800 MHz frequency band (GSM 900 and DCS 1 800) within the digital cellular telecommunications system.

This ETS corresponds to GSM technical specification GSM 11.10-3 version 4.22.1.

This part of the ETS (Part 3), contains Tree and Tabular Combined Notation (TTCN) for Layer 3, signalling for MS supporting Enhanced Full Rate Speech, and cell selection conformity specifications for which Mobile Stations, within the digital cellular telecommunications system (Phase 2), are tested for compliance.

The graphical form ATS

The TTCN.GR representation of these ATSs are contained in annex A, annex D and annex E of this ETS.

The machine processable ATS

The electronic forms of the machine processable files (TTCN MP format) corresponding to the ATS for Layer 3 are contained in the file L3-4m1.mp (Layer 3), EF-4m1.mp (Enhanced Full Rate), and CS-4m1.mp (Cell Selection) ¹⁾ on the diskettes included as a part of this ETS (Part 3).

ETS 300 607 consists of three parts, which have the following ETS numbers and titles:

ETS 300 607-1	Digital cellular telecommunications system (Phase 2); Mobile Station (MS) conformance specification; Part 1: Conformance specification
	Reference: GSM 11.10-1. https://standards.iteh.ai/catalog/standards/sist/5a2f42fa-e8de-4adb-af4e-70407b502/sist-ets-300-607-3-e8-2003
ETS 300 607-2	Digital cellular telecommunications system (Phase 2); Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (ICS) proforma specification
	Reference: GSM 11.10-2.
ETS 300 607-3	Digital cellular telecommunications system (Phase 1); Mobile Station (MS) conformance specification; Part 3: Layer 3 (L3) Abstract Test Suite (ATS)
	Reference: GSM 11.10-3.

Transposition dates

Date of adoption of this ETS:	23 October 1998
Date of latest announcement of this ETS (doa):	31 January 1999
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 July 1999
Date of withdrawal of any conflicting National Standard (dow):	31 July 1999

1) These files are located in an archive file named 6073_E8.ZIP. Other file formats are available on request.

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1 Scope

This European Telecommunication Standard (ETS) specifies the Abstract Test Suite (ATS) and partial IXIT proforma for the Network Layer (Layer 3) at the mobile radio interface of the GSM or DCS (Phase 2) mobile stations (MS) conforming to the ETSs for the Radio Resource management, the Mobility Management, the circuit-switched Call Control, the Supplementary Services and Short Message Services for the digital cellular telecommunications systems (Phase 2).

The ISO standards for the methodology of conformance testing are used as the basis for the test specifications.

2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

- [1] ISO/IEC 9646-1: "Information Technology-OSI- Conformance Testing Methodology and Framework, Part 1: General Concepts".
- [2] ISO/IEC 9646-2: "Information Technology-OSI- Conformance Testing Methodology and Framework, Part 2: Abstract Test Suite Specification".
- [3] ISO/IEC 9646-3: "Information Technology-OSI- Conformance Testing Methodology and Framework, Part 3: The Tree and Tabular Combined Notation".
- [4] ISO/IEC 9646-5: "Information Technology-OSI- Conformance Testing Methodology and Framework, Part 5: Requirements on test laboratories and clients for the conformance assessment process".
- [5] ISO/IEC 8824: "Information Technology-OSI- Specification of Abstract Syntax Notation One (ASN.1)".
- [6] ISO/IEC 8825: "Information Technology-OSI- Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)".
- [7] ITU-T Recommendation Q.773: "Specifications of Signalling System No.7; Transaction capabilities formats and encoding".
- [8] ETS 300 287: "Integrated Services Digital Network (ISDN); Signalling System No.7, Transaction Capabilities Application Part (TCAP) version 2".
- [9] ETS 300 406 (January 1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [10] ETS 300 501 (GSM 02.02 Version 4.2.2): "Digital cellular telecommunication system (Phase 2); Bearer Services (BS) supported by a GSM Public Land Mobile Network (PLMN)".
- [11] ETS 300 502 (GSM 02.03 Version 4.3.1): "Digital cellular telecommunication system (Phase 2); Teleservices supported by a GSM Public Land Mobile Network (PLMN)".
- [12] ETS 300 504 Edition 4 (GSM 02.06 Version 4.5.1): "Digital cellular telecommunication system (Phase 2); Types of Mobile Stations (MS)".
- [13] ETS 300 505 Edition 3 (GSM 02.07 Version 4.8.1): "Digital cellular telecommunication system (Phase 2); Mobile Station (MS) features".

- [14] ETS 300 511 Edition 2 (GSM 02.30 Version 4.13.0): "Digital cellular telecommunication system (Phase 2); Man-Machine Interface (MMI) of the Mobile Station (MS)".
- [15] ETS 300 523 Edition 2 (GSM 03.03 Version 4.9.0): "Digital cellular telecommunication system (Phase 2); Numbering, addressing and identification".
- [16] ETS 300 527 Edition 2 (GSM 03.09 Version 4.6.0): "Digital cellular telecommunications system (Phase 2); Handover procedures".
- [17] ETS 300 528 (GSM 03.10 Version 4.3.1): "Digital cellular telecommunications system (Phase 2); GSM Public Land Mobile Network (PLMN) connection types".
- [18] ETS 300 529 Edition 3 (GSM 03.11 Version 4.10.1): "Digital cellular telecommunication system (Phase 2); Technical realization of supplementary services".
- [19] ETS 300 530 (GSM 03.12 Version 4.4.2): "Digital cellular telecommunications system (Phase 2); Location registration procedures".
- [20] ETS 300 532 (GSM 03.14 Version 4.1.1): "Digital cellular telecommunications system (Phase 2); Support of Dual Tone Multi-Frequency signalling (DTMF) via the GSM system".
- [21] ETS 300 535 Edition 4 (GSM 03.22 Version 4.11.0): "Digital cellular telecommunication system (Phase 2); Functions related to Mobile Station (MS) in idle mode".
- [22] ETS 300 536 Edition 4 (GSM 03.40 Version 4.13.0): "Digital cellular telecommunication system (Phase 2); Technical realization of the Short Message Service (SMS) Point to Point (PP)".
- [23] ETS 300 537 Edition 2 (GSM 03.41 Version 4.11.0): "Digital cellular telecommunication system (Phase 2); Technical realization of Short Message Service Cell Broadcast (SMSCB)".
- [24] ETS 300 550 (GSM 04.01 Version 4.0.4): "Digital cellular telecommunications system (Phase 2); Mobile Station - Base Station System (MS - BSS) interface General aspects and principles".
- [25] ETS 300 552 (GSM 04.03 Version 4.1.1): "Digital cellular telecommunications system (Phase 2); Mobile Station - Base Station System (MS - BSS) interface Channel structures and access capabilities".
- [26] ETS 300 553 (GSM 04.04 Version 4.0.4): "Digital cellular telecommunication system (Phase 2); layer 1 General requirements".
- [27] ETS 300 554 (GSM 04.05 Version 4.0.3): "Digital cellular telecommunication system (Phase 2); Data Link (DL) layer General aspects".
- [28] ETS 300 555 (GSM 04.06 Version 4.4.0): "Digital cellular telecommunication system (Phase 2); Mobile Station - Base Station System (MS - BSS) interface Data Link (DL) layer specification".
- [29] ETS 300 556 (GSM 04.07 Version 4.3.1): "Digital cellular telecommunication system (Phase 2); Mobile radio interface signalling layer 3 General aspects".
- [30] ETS 300 557 Edition 9 (GSM 04.08 Version 4.19.1): "Digital cellular telecommunication system (Phase 2); Mobile radio interface layer 3 specification".

ETS 300 607-3 (GSM 11.10-3 version 4.22.1): October 1998

- [31] ETS 300 558 Edition 2 (GSM 04.10 Version 4.10.1): "Digital cellular telecommunication system (Phase 2); Mobile radio interface layer 3 Supplementary services specification General aspects".
- [32] ETS 300 559 Edition 4 (GSM 04.11 Version 4.10.0): "Digital cellular telecommunication system (Phase 2); Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".
- [33] ETS 300 560 Edition 3 (GSM 04.12 Version 4.6.0): "Digital cellular telecommunication system (Phase 2); Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface".
- [34] ETS 300 564 Edition 3 (GSM 04.80 Version 4.11.1): "Digital cellular telecommunication system (Phase 2); Mobile radio interface layer 3 supplementary services specification Formats and coding".
- [35] ETS 300 565 (GSM 04.81 Version 4.4.1): "Digital cellular telecommunication system (Phase 2); Line identification supplementary services - Stage 3".
- [36] ETS 300 566 Edition 2 (GSM 04.82 Version 4.9.1): "Digital cellular telecommunication system (Phase 2); Call Forwarding (CF) supplementary services - Stage 3".
- [37] ETS 300 567 Edition 2 (GSM 04.83 Version 4.6.1): "Digital cellular telecommunication system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services - Stage 3".
- [38] ETS 300 568 (GSM 04.84 Version 4.3.2): "Digital cellular telecommunication system (Phase 2); MultiParty (MPTY) supplementary services - Stage 3".
- [39] ETS 300 569 Edition 2 (GSM 04.85 Version 4.1.1): "Digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services - Stage 3".
<https://standards.iteh.ai/catalog/standards/sist/5a2f42fa-e8de-4adb-af4e-3300-5705>
- [40] ETS 300 570 (GSM 04.86 Version 4.5.2): "Digital cellular telecommunication system (Phase 2); Advice of Charge (AoC) supplementary services - Stage 3".
- [41] ETS 300 571 Edition 2 (GSM 04.88 Version 4.7.1): "Digital cellular telecommunication system (Phase 2); Call Barring (CB) supplementary services - Stage 3".
- [42] ETS 300 572 (GSM 04.90 Version 4.1.1): "Digital cellular telecommunication system (Phase 2); Unstructured supplementary services operation - Stage 3".
- [43] ETS 300 573 Edition 4 (GSM 05.01 Version 4.6.0): "Digital cellular telecommunications system (Phase 2); Physical layer on the radio path General description".
- [44] ETS 300 574 Edition 6 (GSM 05.02 Version 4.9.0): "Digital cellular telecommunication system (Phase 2); Multiplexing and multiple access on the radio path".
- [45] ETS 300 575 Edition 4 (GSM 05.03 Version 4.5.0): "Digital cellular telecommunication system (Phase 2); Channel coding".
- [46] ETS 300 576 (GSM 05.04 Version 4.0.3): "Digital cellular telecommunication system (Phase 2); Modulation".
- [47] ETS 300 577 Edition 12 (GSM 05.05 Version 4.20.0): "Digital cellular telecommunication system (Phase 2); Radio transmission and reception".
- [48] ETS 300 578 Edition 10 (GSM 05.08 Version 4.19.0): "Digital cellular telecommunication system (Phase 2); Radio subsystem link control".

- [49] ETS 300 579 Edition 6 (GSM 05.10 Version 4.9.0): "Digital cellular telecommunication system (Phase 2); Radio subsystem synchronisation".
- [50] ETS 300 582 Edition 4 (GSM 07.01 Version 4.10.0): "Digital cellular telecommunication system (Phase 2); General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)".
- [51] ETS 300 590 Edition 5 (GSM 08.08 Version 4.11.0): "Digital cellular telecommunications system (Phase 2); Mobile-services Switching Centre - Base Station System (MSC - BSS) interface Layer 3 specification".
- [52] ETS 300 596 Edition 4 (GSM 08.58 Version 4.9.0): "Digital cellular telecommunications system (Phase 2); Base Station Controller - Base Transceiver Station (BSC - BTS) interface Layer 3 specification".
- [53] ETS 300 599 Edition 7 (GSM 09.02 Version 4.17.0): "Digital cellular telecommunication system (Phase 2); Mobile Application Part (MAP) specification".
- [54] ETS 300 607-1 Edition 7 (GSM 11.10-1 Version 4.20.0): "Digital cellular telecommunications system (Phase 2); Mobile Station (MS) conformance specification; Part 1: Conformance specification".
- [55] ETS 300 607-2 Edition 2 (GSM 11.10-2 Version 4.15.0): "Digital cellular telecommunications system (Phase 2); Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) Proforma specification".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the following definitions apply:

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [1].

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [1].

Partial Protocol Implementation eXtra Information for Testing (IXIT): Refer to ISO/IEC 9646-1 [1].

Point of Controls and Observations (PCO): Refer to ISO/IEC 9646-1 [1].

Protocol Implementation Conformance Statement (ICS): Refer to ISO/IEC 9646-1 [1].

System Under Test (SUT): Refer to ISO/IEC 9646-1 [1].

3.2 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

ATS	Abstract Test Suite
BI	Invalid Behaviour tests
BO	Inopportune Behaviour tests
BV	Valid Behaviour tests
CA	CApability tests
EDP-N	Event Detection Point - Notification
EDP-R	Event Detection Point - Request
ETS	European Telecommunication Standard
FE	Functional Entity
FSM	Finite State Machine
ICS	Implementation Conformance Statement
IUT	Implementation Under Test

IXIT	Implementation eXtra Information for Testing
PDU	Protocol Data Unit
SUT	System Under Test
TP	Test Purpose
TSS	Test Suite Structure

Further abbreviations used within GSM related ETS may be found in ETR 100.

Abbreviations for test case group names may be found in figure 1 and 2.

4 Test Suite Structure (TSS)

4.1 Test suite naming convention

The test group identifier for each group and subgroup is built according to the scheme in figure 1.

Identifier:	L3<c><s><g0><g1><g2><nn>
<c> = category:	BIT BIT, Basic Interconnection tests (not used) CA CA, Capability tests (not used) BV BV, Valid Behaviour tests BI-BOBI and BO, Invalid and Inopportune Behaviour tests
<g0> = group:	IN Initial tests ID Idle mode tests RR Radio Resource management MM Mobility Management CC Call Control SP Structured Procedures SS Supplementary services LLF Lower Layer Failures UUE Unknown, Unforeseen or erroneous Elements
<g1> = group:	CR Channel Request AT IMSI detach and IMSI attach SMT Sequenced MM / CC message transfer EC Establishment Cause IA Immediate assignment PG Test of paging MR Test of measurement report ASS Test of the channel HO Test of handover FR Test of frequency redefinition CMM Test of the channel mode modify procedure CY Test of ciphering mode setting CM Test of classmark CHR Test of channel release START Test of starting time IDAU Identification and authentication LU Location updating CON MM connection CCSMO State Machine Verification, Mobile Originating Call CCSMT State Machine Verification, Mobile Terminating Call SMICF State machine verification, In Call Functions CRE Call Re-establishment UUS User to user signalling UPD Unknown protocol discriminator TIS TI and skip indicator UMT Undefined or unexpected message type UIE Unforeseen information elements in the non-imperative NMIE Non-semantic mandatory IE errors CNR Unknown IE, comprehension not required SB Spare bits