



**SLOVENSKI STANDARD**  
**SIST EN 300 607-3 V5.0.1:2003**  
**01-december-2003**

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Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 3: Layer 3 Abstract Test Suite (ATS) (GSM 11.10-3 version 5.0.1 Release 1996)

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# ETSI EN 300 607-3 V5.0.1 (2000-06)

European Standard (Telecommunications series)

**Digital cellular telecommunications system (Phase 2+);  
Mobile Station (MS) conformance specification;  
Part 3: Layer 3 Abstract Test Suite (ATS)  
(GSM 11.10-3 version 5.0.1 Release 1996)**

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## Foreword

This European Standard (Telecommunications series) has been produced by the Special Mobile Group (SMG).

The present document 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.

The present document corresponds to GSM technical specification GSM 11.10-3 version 5.0.0.

This part of the present document, contains Tree and Tabular Combined Notation (TTCN) for Layer 3, cell selection, Enhanced Full Rate Speech, Multi-band, GSM-R band, VGCS/VBS service and eMLPP service conformity specifications, for which Mobile Stations, within the digital cellular telecommunications system (Phase 2+), are tested for compliance.

The contents of the present document may be subject to continuing work within SMG and may change following formal SMG approval. Should SMG modify the contents of the present document it will then be re-submitted for formal approval procedures by ETSI with an identifying change of release date and an increase in version number as follows:

Version 5.x.y

where:

- 5 GSM Phase 2+ Release 1996.
- x the second digit is incremented for changes of substance, i.e. technical enhancements, corrections, updates, etc..
- y the third digit is incremented when editorial only changes have been incorporated in the specification.

### The graphical form ATS

The electronic forms of the graphical representation (TTCN.GR format) corresponding to the ATS for R-GSM and ASCII are contained in the Adobe Portable Document Format™ files rgsm-500.PDF (R-GSM) and asci-500.PDF (ASCII) which accompany the present document (Part 3) (these files are contained in archive en\_30060703v050001p0.ZIP). The electronic forms of the graphical representation corresponding to the ATSs for the Layer 3, cell selection, Enhanced Full Rate Speech and Multi-band are referred to GSM 11.10-3 version 4.r.0.

### 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 ASCII files rgsm-500.mp (Layer 3) and asci-500.PDF.mp (ASCII) which accompany the present document (Part 3) (these files are contained in archive en\_30060703v050001p0.ZIP). The electronic forms of the machine processable files corresponding to the ATSs for the Layer 3, cell selection, Enhanced Full Rate Speech and Multi-band are referred to GSM 11.10-3 version 4.r.0.

**EN 300 607 consists of four parts, which have the following EN numbers and titles:**

- EN 300 607-1 Digital cellular telecommunications system (Phase 2+);  
Mobile Station (MS) conformance specification;  
Part 1: Conformance specification
- Reference: GSM 11.10-1.
- EN 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.
- EN 300 607-3 Digital cellular telecommunications system (Phase 2+);  
Mobile Station (MS) conformance specification;  
Part 3: Layer 3 Abstract Test Suite (ATS)**
- Reference: GSM 11.10-3.**
- EN 300 607-4 Digital cellular telecommunications system (Phase 2+);  
Mobile Station (MS) conformance specification;  
Part 4: SIM application toolkit conformance specification
- Reference: GSM 11.10-4.

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# 1 Scope

The present document specifies the Abstract Test Suites (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 ENs for Layer 3, cell selection, Enhanced Full Rate Speech, Multi-band, GSM-R band (R-GSM), the voice group call service (VGCS), voice broadcast service (VBS) and enhanced Multi-Level Precedence and Pre-emption service (eMLPP) for the digital cellular telecommunications systems (Phase 2+).

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

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.
- For this Release 1996 document, references to GSM documents are for Release 1996 versions (version 5.x.y).

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## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the following terms and 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 the present document, the following abbreviations apply:

ATS	Abstract Test Suite
BI	Invalid Behaviour tests
BO	Inopportune Behaviour tests
BV	Valid Behaviour tests
CA	CAbility tests
EDP-N	Event Detection Point - Notification
EDP-R	Event Detection Point - Request
EN	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

## 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><g>

<c> = category:	RGSM	R-GSM test suite
	ASCI	ASCI test suite
<g> = group:	eMLPP	eMLPP test group
	VGCS_VBS	VGCS/VBS test group
	CellSelction	cell selection and re-selection test group
	Signalling	signalling test group

**Figure 1: Test group identifier naming convention scheme**

## 4.2 Suite Overview

Figure 2 shows the structure of the test suites in the present document.

ATSS					
L3	CS	EFR	DB	RGSM	ASCI

**Figure 2: Test suite structure of the L3 tests**

## 4.3 Test groups

Each test group corresponds to a subclause in the GSM 11.10-1.

## 4.4 Test Step Structure

### 4.4.1 Preambles

The preamble is defined for each test case.

### 4.4.2 Postambles

After each test case the IUT shall be brought to the state as defined in the postamble for each test case.

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## 5 Test Purposes (TP)

For each conformance requirement a Test Purpose (TP) is defined. The test purposes are specified in the ATS Dynamic part (annex A and C).

### 5.1 TP and test case naming convention

In order clearly to map the conformance requirements specified in the EN 300 607-1 and TTCN test cases in the ATS, the clause numbers in the EN 300 607-1 are used as test case names.

The identifier of each TP is identical to the name of the implemented TTCN test case.

"Test Purpose Identifier" = "Test Case Name" = TPI = TC\_NN\_A\_B\_C\_D\_E, where NN, A, B, C, D and E are digits used in the corresponding clause numbers of EN 300 607-1. For example, the test case name TC\_26\_14\_1\_2 is the TTCN specification corresponding to the conformance requirements and the test case in the clause 26.14.1.2 in the EN 300 607-1. TC\_26\_10\_2\_1R is the TTCN specification corresponding to the conformance requirements and the test case of the R-GSM part in the clause 26.10.2.1 in the EN 300 607-1.

In case where the clause has been implemented in more than one test case sub numbering has been introduced..

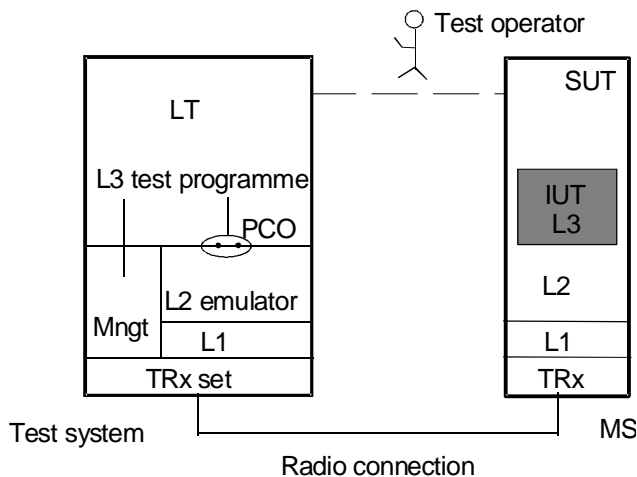
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## 6 Abstract test method and test configurations

The distributed test method applies to the L3 MS testing. The test method uses a lower tester and a Man-Machine Interface (MMI) as an upper tester at the SUT.

## 6.1 Test system model

The model of the L3 test system is based on the original protocol architecture at the air interface. The test system consists conceptually of a lower tester LT, the L3 test programme (executable test suite), a L2 radio link emulator, a management functional unit, the L1 service provider and a TRx set (see figure 1).



**Figure 3: Test system and distributed test method**

The LT provides the test environment and for test execution and the means of control and observation at the L3 lower service boundary within the test system.

The L3 TTCN test specification uses the three LT interfaces to communicate with the MS, the system under test, and with the other parts of the test system:

- Interface to the L2 emulator via the PCO;
- Interface to the management functional unit via TTCN test suite operations;
- Interface to the MS Man-Machine Interface (MMI) via a test operator.

## 6.2 Test Method

The PCO in the LT is defined as L2 SAP (SAP 0 + 3). The PCO has two FIFO queues (data buffers) to store all sending and receiving test events. The L2 primitives in the ATS which constitute mainly the interface to the L2 emulator are specified via the L2 primitives. In order to simulate multicell testing as required in some test cases, the defined primitives are able to address individual cells of the test system and the logic channels of each cell for the L3 message exchanges. The L2 emulator together with the underlying L1 and the TRx set support all message exchanges via correct radio links.

The management function unit has three management functions:

- L2 and L1 management;
- Channel management;
- TRx management;

The interface to the management function unit is presented in the ATS via a set of test suite operations. The major functions of the test suite management operations are:

- To load configuration parameters necessary for the test system.