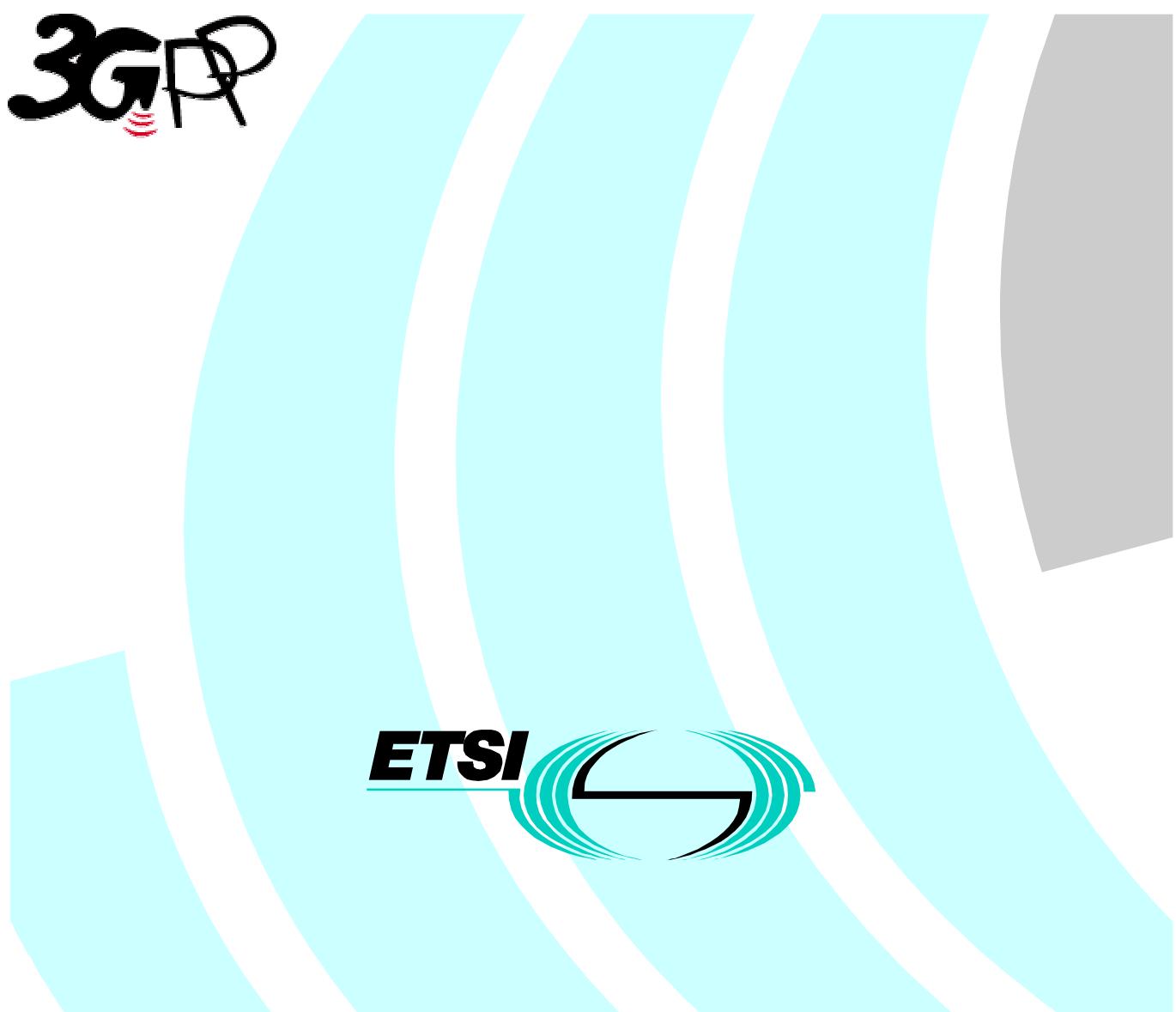


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Technical Specification

**Universal Mobile Telecommunications System (UMTS);
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(3G TS 25.941 version 3.1.0 Release 1999)**



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Foreword

This Technical Report (TR) has been produced by the ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables. The mapping of document identities is as follows:

For 3GPP documents:

3G TS | TR nn.nnn "<title>" (with or without the prefix 3G)

is equivalent to

ETSI TS | TR 1nn nnn "[Digital cellular telecommunications system (Phase 2+) (GSM);] Universal Mobile Telecommunications System; <title>

For GSM document identities of type "GSM xx.yy", e.g. GSM 01.04, the corresponding ETSI document identity may be found in the Cross Reference List on www.etsi.org/key

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1 Scope

This document introduces the specifications and technical reports written and maintained by 3GPP TSG RAN working group 4.

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.

- [1] TS 25.104; 3rd Generation Partnership Project; TSG RAN WG4; UTRA (BS) FDD; Radio transmission and reception
- [2] TS 25.105; 3rd Generation Partnership Project; TSG RAN WG4; UTRA (BS) TDD; Radio transmission and reception
- [3] TS 25.141; 3rd Generation Partnership Project; TSG RAN WG4; UTRA (BS) FDD; Base station conformance testing (FDD)
- [4] TS 25.142; 3rd Generation Partnership Project; TSG RAN WG4; Base station conformance testing (TDD)
- [5] IEC 61000-6-1: 1997; “Electromagnetic Compatibility (EMC)-Part 6: Generic standards-Section 1: Immunity for residential, commercial and light-industrial environments”
- [6] IEC 61000-6-3: 1996; “Electromagnetic Compatibility (EMC)-Part 6: Generic standards-Section 3: Emission standard for residential, commercial and light industrial environments”

3 Document Structure

3.1 25.101 UE Radio transmission and reception (FDD)

3.1.1 Scope

This document establishes the minimum RF characteristics of the FDD mode of UTRA for the User Equipment (UE).

3.2 25.102 UE Radio transmission and reception (TDD)

3.2.1 Scope

This document establishes the minimum RF characteristics of the TDD mode of UTRA for the User Equipment (UE).

3.3 25.104 BTS Radio transmission and reception (FDD)

3.3.1 Scope

This document establishes the Base Station minimum RF characteristics of the FDD mode of UTRA.

3.4 25.105 BTS Radio transmission and reception (TDD)

3.4.1 Scope

This document establishes the minimum RF characteristics of the TDD mode of UTRA.

3.5 25.113 Base station EMC

3.5.1 Scope

The present document covers the assessment of basestations and associated ancillary equipment in respect of ElectroMagnetic Compatibility (EMC).

The present document specifies the applicable test conditions, performance assessment and performance criteria for basestations and associated ancillary equipment in one of the following categories:

- basestations for the FDD mode of UTRA meeting the requirements of TS 25.104 [1], with conformance demonstrated by compliance to TS 25.141 [3].
- basestations for the TDD mode of UTRA meeting the requirements of TS 25.105 [2], with conformance demonstrated by compliance to TS 25.142 [4].

Technical requirements related to the antenna port of basestations are not included in the present document. These are found in the relevant product standards [1], [2], [3], [4].

The environment classification used in the present document refers to the environment classification used in IEC 61000-6-1 [5] and IEC 61000-6-3 [6].

The EMC requirements have been selected to ensure an adequate level of compatibility for apparatus at residential, commercial and light industrial environments. The levels, however, do not cover extreme cases which may occur in any location but with low probability of occurrence.

3.6 25.123 Requirements for Support of Radio Resource Management (TDD)

3.6.1 Scope

This Technical Specification specifies requirements for support of Radio Resource Management for TDD. These requirements include requirements on measurements in UTRAN and the UE as well as requirements on node dynamical behaviour and interaction, in terms of delay and response characteristics.

3.7 25.133 Requirements for Support of Radio Resource Management (FDD)

3.7.1 Scope

This Technical Specification specifies requirements for support of Radio Resource Management for FDD. These requirements include requirements on measurements in UTRAN and the UE as well as requirements on node dynamical behaviour and interaction, in terms of delay and response characteristics.

3.8 25.141 Base station conformance testing (FDD)

3.8.1 Scope

The present document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA Base Stations (BS) operating in the FDD mode. These have been derived from, and are consistent with the UTRA base station (BS) specifications defined in [1]

3.9 25.142 Base station conformance testing (TDD)

3.9.1 Scope

The present document specifies the Radio Frequency (RF) test methods and conformance requirements for UTRA Base Transceiver Stations (BTS) operating in the TDD mode. These have been derived from, and are consistent with, the UTRA base station (BS) specifications defined in 3G TS 25.105 [2].

In this TS, the reference point for RF connections (except for the measurement of mean transmitted RF carrier power) is the antenna connector, as defined by the manufacturer. This TS does not apply to repeaters or RF devices which may be connected to an antenna connector of a BTS.

3.10 25.941 Document structure

3.10.1 Scope

This document introduces the specifications and technical reports written and maintained by 3GPP TSG RAN working group 4.

3.11 25.942 RF system scenarios

3.11.1 Scope

During the UTRA standards development, the physical layer parameters will be decided using system scenarios, together with implementation issues, reflecting the environments that UTRA will be designed to operate in.

3.12 25.943 Deployment aspects

3.12.1 Scope

The present document establishes channel models to be used for deployment evaluation.

3.13 30.504 Work plan

3.13.1 Scope

The present document shall provide a work plan and study items as agreed within the 3GPP TSG RAN working group 4.

For the FDD mode, as proposed in the input paper of R4-99160 the items shown in that document absolutely need to be finalised by the Japanese regulatory organisation, Telecommunications Technical Council of Japan, by the end of June 1999 so that MPT will be able to legislate on schedule for the regulation for the 3G system of Japan.

For the TDD mode, some deviations in achieving the intermediate milestones are shown, compared to FDD. However, it is strictly intended to have the same final milestone kept for TDD as for FDD.

Annex A (informative): Change request history

Doc-1st-	Spec	CR	Re	Phas	Subject	C	Version-	Version-New
RP-99782	25.941	001		R99	CR for 25.941	F	3.0.0	3.1.0

History

Document history		
V3.1.0	January 2000	Publication