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Technical Report

**3rd Generation Partnership Project (3GPP);
Technical Specification Group (TSG) RAN;
Working Group 4 (WG4);**

Document structure



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Specifications and reports for implementation of the 3GPP™ system should be obtained via the 3GPP Organisational Partners' Publications Offices.

Reference

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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"](#)
~~IEC 61000-6-1: "Electromagnetic compatibility—Generic emission standard: Residential, commercial and light industry"~~
- [6] [IEC 61000-6-3: 1996; "Electromagnetic Compatibility \(EMC\)-Part 6: Generic standards-Section 3: Emission standard for residential, commercial and light industrial environments"](#)
~~IEC 61000-6-3: "Electromagnetic compatibility—Generic immunity standard: Residential, commercial and light industry"~~

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 25.103 RF parameters in support of RRM

3.3.1 Scope

This Technical Specification shall describe RF parameters and Requirements for the Radio Resource Management.

3.4 25.104 BTS Radio transmission and reception (FDD)

3.4.1 Scope

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

3.5 25.105 BTS Radio transmission and reception (TDD)

3.5.1 Scope

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

3.6 25.113 Base station EMC

3.6.1 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.

3.7 25.141 Base station conformance testing (FDD)

3.7.1 Scope

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

3.8 25.142 Base station conformance testing (TDD)

3.8.1 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.

3.9 25.941 Document structure

3.9.1 Scope

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

3.10 25.942 RF system scenarios

3.10.1 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.

3.11 30.504 Work plan

3.11.1 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.

History

| Document history | | |
|--|----------------------|--|
| Date | Version | Comment |
| February 15th, 1999 | 0.0.1 | Initial version as R4-99058, titled "R4.00 Introduction" |
| June 13th, 1999 | 0.0.2 | Revised the items pointed out at the WG4#2 - #4 meetings. Change the title to "25.941 Document Structure" Removing temporal section of "Work Plan" |
| June 17, 1999 | 25.941 V1.0.0 | Version presented to TSG RANmeeting#4 as TSGR#4(99)365 and noted as V1.0.0 |
| July 26, 1999 | 25.941 V1.1.0 | Incorporating changes from input documents for R4#6 meeting. Version presented to TSG RANmeeting#6 as TSGR#6(99)423 and approved as 25.941 V2.0.0 |
| Sep. 7, 1999 | 25.941 V2.1.0 | Incorporating changes from scope of 25.113 |
| Sep. 14, 1999 | 25.941 V2.2.0 | Incorporating changes from scope of 25.113 and 25.142. Adding Chapter2 "References" |
| <u>Sep. 25, 1999</u> | <u>25.941 V2.2.1</u> | <u>Incorporating editorial changes from references of 25.113.</u> |
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