

Agenda Item:

Source: ARIB

Title: TS34.121 CR for regional requirements on Test Tolerance

Document for: Discussion and Approval

In TSG-RAN#11 meeting in Palm Springs (Mar 2001), a proposal [1] on how to handle regional requirements in test tolerances section of TS25.141 was discussed. It was originally based on the CR proposed at RAN-WG4#15 meeting [2]. At this stage, ARIB believes that it is worthwhile and necessary for TSG-T/RAN to make substantial discussion on this issue and realizes that there is room to achieve common understanding and adequate resolution. Consensus obtained thorough discussion in the floor at TSG-RAN#11 as well as successive offline discussion seemed to be that TSG RAN needed to take two actions to solve the issue. One is that PCG should be asked for general guidance for such a particular case that how to resolve such tentative inconsistency between 3GPP specifications and regulations needs to be considered. Another is that an adequate text is to be added to 4.7 Regional requirements of TS25.141 and TS34.121 as well. Taking into account comments from TSG-RAN discussion, attached CR for TS34.121 has been drafted and is proposed for approval.

Reference

- [1] RP-010083," Regional requirements on Test Tolerances ",ARIB
- [2] R4-010225," CR for Regional requirements on Test Tolerances (Rev2)",ARIB

CHANGE REQUEST

⌘ **34.121 CR NUM** ⌘ rev **-** ⌘ Current version: **3.3.0** ⌘

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

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| Title: | ⌘ Regional requirements on Test Tolerance | | |
| Source: | ⌘ ARIB | | |
| Work item code: | ⌘ | Date: | ⌘ 03.15.2001 |
| Category: | ⌘ F | Release: | ⌘ R99 |
| | Use <u>one</u> of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900. | | Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5) |

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| Reason for change: | ⌘ As the current Japanese regulations could only be based on "test requirements" in former version of TS34.121, they do not reflect latest "test requirements" which may include non-zero test tolerances. Although, Japanese regulations have to be revised so as to incorporate all the changes in TS34.121, it will take certain period of time and as a matter of fact, before all the changes are incorporated, Japanese regulations supersedes test requirements in 3GPP. It is also a common possible situation in regions other than Japan. To avoid neither confusion nor misunderstanding caused by this inconsistency, clear indication of allowing "tentative application of 'test requirements' with 'zero test tolerance'" is necessary. |
| Summary of change: | ⌘ To indicate that, shared risk against core specification value with test tolerance of zero may be applied provisionally as regional requirement in Japan by the time the non-zero test tolerances are reflected to the Japanese regulations. |
| Consequences if not approved: | ⌘ In the meantime before those regulations reflect "Test Requirements with non-zero test tolerance", there will be inconsistency between test requirements in 3GPP and the regulations. This will cause serious confusion or misunderstanding in conformance testing. |

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| Clauses affected: | ⌘ Annex-F | | |
| Other specs Affected: | ⌘ <input type="checkbox"/> Other core specifications | ⌘ | |
| | <input type="checkbox"/> Test specifications | | |
| | <input type="checkbox"/> O&M Specifications | | |
| Other comments: | ⌘ The proposed statement shall be removed after all the relevant regulations in each region reflect "Test Requirements with non-zero test tolerance" in TS34.121. | | |

Annex F (normative): General test conditions and declarations

The requirements of this clause apply to all tests in the present document, when applicable.

Many of the tests in the present document measure a parameter relative to a value which is not fully specified in the UE specifications. For these tests, the conformance requirement is determined relative to a nominal value specified by the manufacturer.

When specified in a test, the manufacturer shall declare the nominal value of a parameter, or whether an option is supported.

In order to be consistent with industry practise, the shared risk principle shall be used for all tests. It may be decided to relax the core specification value by a certain relaxation value (hereby named "Test Tolerance") that should be evaluated on a case per case basis taking into account different factors such as test equipment uncertainty, mismatch, and criticality for system performance.

In all the relevant subclauses in this clause all Bit Error Ratio (BER), Block Error Ratio (BLER), False transmit format Detection Ratio (FDR) measurements shall be carried out according to the general rules for statistical testing in annex F.4.

Note: Until the time the non-zero test tolerances are reflected in the Japanese regulations, shared risk against core specification value with test tolerance of zero may be applied provisionally for the following minimum requirements as regional requirement in Japan. This note should be reviewed to check its necessity every TSG-T meeting.

- 5.2 Maximum output power
- 5.3 Frequency error
- 5.4.1 Open Loop Power Control in the Uplink
- 5.4.2 Inner Loop Power Control in the uplink
- 5.5.1 Transmit off power
- 5.10 Spectrum Emission Mask
- 6.2 Receiver Sensitivity Level
- 6.4 Adjacent Channel Selectivity
- 6.7 Intermodulation Characteristics
- 5.13.2 Peak code domain error