Source:	**ARIB (Association of Radio Industries and Businesses)**
Title:	**Correction of regional requirement**
Agenda item:	**7.4.3**
Document for:	**Approval**

Introduction

At RAN#11 meeting in Palm Springs, US, a CR for TS25.141; "Regional requirements on Test Tolerance" □1□ was approved. It was a CR to introduce temporary regional requirements on Test Tolerances in FDD BS conformance test so as to avoid inconsistency with Japanese regulations at that time. It was also agreed that necessity of these temporary regional requirements should be reviewed every RAN meeting and to be deleted when the regulations incorporated these test tolerances.

Status of Japanese regulations

For these almost 2 years, intensive works in this area, such as creating draft new recommendations in ITU-R □2□, have been made. Through these efforts, the test tolerances have been incorporated into Japanese regulations and finally those revised regulations were approved at the last Diet in Japan. Accordingly there is no need to keep the regional requirements in TS25.141 any more and should be removed. As a thorough check in ARIB was needed and was going on, CRs removing the regional requirements could not be provided for RAN-WG4#24 meeting in August, but information on the latest status was provided for the RAN-WG4 meeting by □3□ instead.

As for UE side, TSG-T has a conformance test specification for FDD UE (TS34.121) which has an annex for corresponding regional requirements for UE introduced by a CR in □4□. The situation is quite similar except "the absolute lower limit for spectrum emission mask requirement" where a small inconsistency caused by a chapter of accidents remains. Unfortunately, the regional requirement on this part shall remain unchanged for the time being but requisite actions to resolve the issue will be taken by our colleagues in TSG-T in cooperation with relevant parties. Other than this, rest of the regional requirements in TS34.121 will be removed by a CR in □5□.

Proposal

Removal of the regional requirements in TS25.141 is proposed. Corresponding CRs are attached.

References

□1□   RP-010268 "Regional requirements on Test Tolerance" ARIB, (2001-03)
□2□   M.1580 DNR ITU-R.M.[IMT.UNWANT-BS] "Generic unwanted emission characteristics of base stations using the terrestrial radio interfaces of IMT-2000", ITU-R SG8 (Pre-published, 2002-07)
□3□   R4-021279 "Regional requirements on Test Tolerance in TS25.141" Fujitsu, (2002-08)
□4□   TP-010076 "Regional requirements on Test Tolerance" Fujitsu, Mitsubishi, Motorola, NTT DoCoMo, Sony, (2001-03)
□5□   TP-020192 "Correction of regional note in Annex J.1" ARIB, (2002-09)

TSG RAN Meeting #17   **RP-020468**
Biarritz, France, 3-6 September 2002

Title   **Correction of regional requirements (CRs for R'99 and Rel-4/Rel-5 Category A to TS 25.141)**
Source   **ARIB**
Agenda Item   **7.4.3**

RAN Tdoc	Spec	Curr Ver	New Ver	CR	R	Cat	Ph	Title	Acronym
RP-020468_CR_R99	25.141	3.10.0	3.11.0	244		F	R99	Correction of regional requirements	
RP-020468_CR_R4	25.141	4.5.0	4.6.0	245		A	Rel-4	Correction of regional requirements	
RP-020468_CR_R5	25.141	5.3.1	5.4.0	246		A	Rel-5	Correction of regional requirements	

3GPP TSG-RAN Meeting #17   *Tdoc* ⌘ *RP-020468*
Biarritz, France, 3-6 September 2002

CR-Form-v7

CHANGE REQUEST

⌘   **25.141 CR 245**   ⌘**rev** **-** ⌘   Current version: **4.5.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐   ME ☐ Radio Access Network **X** Core Network ☐

Title: ⌘	Correction of regional requirements
Source: ⌘	Association of Radio Industries and Businesses (ARIB)
Work item code: ⌘	**Date:** ⌘ 03/09/2002
Category: ⌘ **A**	**Release:** ⌘ Rel-4

Use <u>one</u> of the following categories:
F (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 <u>TR 21.900</u>.

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)
Rel-6   (Release 6)

Reason for change: ⌘	Latest Japanese regulations have incorporated test tolerances, which have already been specified in TS25.141. Therefore corrsponding regional requirement has to be corrected.
Summary of change: ⌘	A corresponding row for subclause 4.2 in Table 4.4 is removed.
Consequences if not approved: ⌘	Unnecessary and incorrect statements on regulatory situation will remain, which require uncessary margin for BS equipment.

Clauses affected: ⌘	4.7

	Y	N		
Other specs Affected: ⌘		X	Other core specifications ⌘	
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘	

How to create CRs using this form:

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1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.7 Regional requirements

Some requirements in TS 25.141 may only apply in certain regions. Table 4.4 lists all requirements that may be applied differently in different regions.

Table 4.4: List of regional requirements

Subclause number	Requirement	Comments
3.4.1	Frequency bands	Some bands may be applied regionally.
3.4.2	Tx-Rx Frequency Separation	The requirement is applied according to what frequency bands in subclause 3.4.1 that are supported by the BS.
~~4.2~~	~~Test Tolerances~~ * (*: This regional requirement should be reviewed to check its necessity every TSG RAN meeting.)	~~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.~~ ~~- 6.2.1.2 Base station maximum output power~~ ~~- 6.3 Frequency error~~ ~~- 6.4.2 Power control steps~~ ~~- 6.4.3 Power control dynamic range~~ ~~- 6.4.4 Total power dynamic range~~ ~~- 6.5.2.2 Adjacent Channel Leakage power Ratio(ACLR)~~ ~~- 6.7.2 Peak code Domain error~~ ~~- 7.2 Receiver sensitivity Level~~
6.2.1.2	Base station output power	In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the ranges defined for the Normal test environment in subclause 4.4.1.
6.5.2.1	Spectrum emission mask	The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.
6.5.3.4.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [1], are applied.
6.5.3.4.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [1], are applied.
6.5.3.4.4.1	Co-existence with GSM900 – Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS in geographic areas in which both GSM 900 and UTRA are deployed.
6.5.3.4.4.2	Co-existence with GSM900 – Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.
6.5.3.4.5.1	Co-existence with DCS1800 – Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS in geographic areas in which both DCS 1800 and UTRA are deployed.
6.5.3.4.5.2	Co-existence with DCS1800 – Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.
6.5.3.4.6	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.
6.5.3.4.7	Co-.existence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to 2110-2170 MHz, as defined in subclause 3.4.1(a) and 1930-1990 MHz, as defined in subclause 3.4.1(b) in geographic areas in which both an adjacent band service and UTRA are deployed.
6.5.3.4.8.1	Co-existence with UTRA TDD – Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.
6.5.3.4.8.2	Co-existence with UTRA TDD – Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what

		frequency bands in subclause 3.4.1 that are supported by the BS.
7.5	Blocking characteristics	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and GSM 900/DCS1800 BS are co-located.

3GPP TSG-RAN Meeting #17   *Tdoc* ⌘ *RP-020468*
Biarritz, France, 3-6 September 2002

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CHANGE REQUEST

⌘   **25.141 CR 246**   ⌘**rev** **-** ⌘ Current version: **5.3.1** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐   ME ☐   Radio Access Network **X** Core Network ☐

Title: ⌘	Correction of regional requirements	

Source: ⌘	Association of Radio Industries and Businesses (ARIB)

Work item code:⌘		*Date:* ⌘	03/09/2002

Category: ⌘	**A**	*Release:* ⌘	Rel-5

Use *one* of the following categories: Use *one* of the following releases:
F (correction)   2 (GSM Phase 2)
A (corresponds to a correction in an earlier release) R96 (Release 1996)
B (addition of feature),   R97 (Release 1997)
C (functional modification of feature) R98 (Release 1998)
D (editorial modification)   R99 (Release 1999)
Detailed explanations of the above categories can Rel-4 (Release 4)
be found in 3GPP TR 21.900.   Rel-5 (Release 5)
                 Rel-6 (Release 6)

Reason for change: ⌘	Latest Japanese regulations have incorporated test tolerances, which have already been specified in TS25.141. Therefore corrsponding regional requirement has to be corrected.
Summary of change:⌘	A corresponding row for subclause 4.2 in Table 4.4 is removed.
Consequences if not approved: ⌘	Unnecessary and incorrect statements on regulatory situation will remain, which require uncessary margin for BS equipment.

Clauses affected: ⌘	4.7

	Y	N		
Other specs Affected: ⌘		X	Other core specifications ⌘	
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘	

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.7 Regional requirements

Some requirements in TS 25.141 may only apply in certain regions. Table 4.4 lists all requirements that may be applied differently in different regions.

Table 4.4: List of regional requirements

Subclause number	Requirement	Comments
3.4.1	Frequency bands	Some bands may be applied regionally.
3.4.2	Tx-Rx Frequency Separation	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.
3.5.	Channel arrangement	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.
~~4.2~~	~~Test Tolerances *~~ ~~(*: This regional requirement should be reviewed to check its necessity every TSG RAN meeting.)~~	~~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.~~ ~~- 6.2.1.2 Base station maximum output power~~ ~~- 6.3 Frequency error~~ ~~- 6.4.2 Power control steps~~ ~~- 6.4.3 Power control dynamic range~~ ~~- 6.4.4 Total power dynamic range~~ ~~- 6.5.2.2 Adjacent Channel Leakage power Ratio(ACLR)~~ ~~- 6.7.2 Peak code Domain error~~ ~~- 7.2 Receiver sensitivity Level~~
6.2.1.2	Base station output power	In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the ranges defined for the Normal test environment in subclause 4.4.1.
6.5.2.1	Spectrum emission mask	The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.
6.5.3.4.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329- [4], are applied.
6.5.3.4.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329- [4], are applied.
6.5.3.4.4.1	Co-existence with GSM900 – Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS in geographic areas in which both GSM 900 and UTRA are deployed.
6.5.3.4.4.2	Co-existence with GSM900 – Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.
6.5.3.4.5.1	Co-existence with DCS1800 – Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS in geographic areas in which both DCS 1800 and UTRA are deployed.
6.5.3.4.5.2	Co-existence with DCS1800 – Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.
6.5.3.4.6	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.
6.5.3.4.7	Co-.existence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to the downlink band as defined in clause 3.4.1 in geographic areas in which both an adjacent band service and UTRA are deployed.
6.5.3.4.8.1	Co-existence with UTRA TDD – Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.
6.5.3.4.8.2	Co-existence with UTRA TDD – Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.
6.5.3.4.9.1	Co-existence with UTRA in frequency band III -Operation in	This requirement may be applied for the protection of UTRA UE in frequency band I in geographic

	the same geographic area	areas in which both UTRA in frequency band I and III are deployed.
6.5.3.4.9.2	Co-existence with UTRA in frequency band III - Co-located base stations	This requirement may be applied for the protection of UTRA BTS receivers in frequency band I when UTRA BS in frequency band I and III are co-located.
6.5.3.4.10.1	Co-existence with UTRA in frequency band I -Operation in the same geographic area	This requirement may be applied for the protection of UTRA UE in frequency band I in geographic areas in which both UTRA in frequency band I and III are deployed.
6.5.3.4.10.2	Co-existence with UTRA in frequency band I - Co-located base stations	This requirement may be applied for the protection of UTRA BTS receivers in frequency band I when UTRA BS in frequency band I and III are co-located.
6.5.3.4.11.1	Co-existence with PCS1900 - Co-located base stations	This requirement may be applied for the protection of PCS 1900 BTS receivers when PCS 1900 BTS and UTRA BS are co-located.
6.5.3.4.12.1	Co-existence with GSM 850 - Co-located base stations	This requirement may be applied for the protection of GSM 850 BTS receivers when GSM 850 BTS and UTRA BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what frequency bands inclause 3.4.1 that are supported by the BS.
7.5	Blocking characteristics	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and GSM 900, GSM850, PCS 1900 and BS operating in the /DCS1800 band (GSM or UTRA) are co-located.
7.6	Intermodulation characteristics	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.
7.7	Spurious emissions	The requirement is applied according to what frequency bands in clause 3.4.1 that are supported by the BS.
	HSDPA*	The portion of HSDPA(High Speed Downlink Packet Access) is not applicable to ARIB standards by the time when ARIB is prepared to transpose.

Note: HSDPA*: This regional requirement should be reviewed to check its necessity every TSG RAN meeting.

CR-Form-v7

CHANGE REQUEST

| ⌘ | **25.141** CR **244** | ⌘ **rev** | **-** | ⌘ | Current version: | **3.10.0** | ⌘ |

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ ☐   ME ☐ Radio Access Network **X** Core Network ☐

Title:	⌘	Correction of regional requirements

Source:	⌘	Association of Radio Industries and Businesses (ARIB)

Work item code: ⌘		**Date:** ⌘	03/09/2002

Category:	⌘	**F**		**Release:** ⌘	R99

Use <u>one</u> of the following categories:
   F *(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 <u>TR 21.900</u>.

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)*
   Rel-6 *(Release 6)*

Reason for change:	⌘	Latest Japanese regulations have incorporated test tolerances, which have already been specified in TS25.141. Therefore corrsponding regional requirement has to be corrected.

Summary of change: ⌘	A corresponding row for subclause 4.2 in Table 4.4 is removed.

Consequences if not approved:	⌘	Unnecessary and incorrect statements on regulatory situation will remain, which require uncessary margin for BS equipment.

Clauses affected:	⌘	4.7

		Y	N		
Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	

Other comments:	⌘	

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3.4.2	Tx-Rx Frequency Separation	The requirement is applied according to what frequency bands in subclause 3.4.1 that are supported by the BS.
~~4.2~~	~~Test Tolerances *~~ ~~(*: This regional requirement should be reviewed to check its necessity every TSG RAN meeting.)~~	~~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.~~ ~~- 6.2.1.2 Base station maximum output power~~ ~~- 6.3 Frequency error~~ ~~- 6.4.2 Power control steps~~ ~~- 6.4.3 Power control dynamic range~~ ~~- 6.4.4 Total power dynamic range~~ ~~- 6.5.2.2 Adjacent Channel Leakage power Ratio(ACLR)~~ ~~- 6.7.2 Peak code Domain error~~ ~~- 7.2 Receiver sensitivity Level~~
6.2.1.2	Base station output power	In certain regions, the minimum requirement for normal conditions may apply also for some conditions outside the ranges defined for the Normal test environment in subclause 4.4.1.
6.5.2.1	Spectrum emission mask	The mask specified may be mandatory in certain regions. In other regions this mask may not be applied.
6.5.3.4.1	Spurious emissions (Category A)	These requirements shall be met in cases where Category A limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [4], are applied.
6.5.3.4.2	Spurious emissions (Category B)	These requirements shall be met in cases where Category B limits for spurious emissions, as defined in ITU-R Recommendation SM.329-8 [4], are applied.
6.5.3.4.4.1	Co-existence with GSM900 – Operation in the same geographic area	This requirement may be applied for the protection of GSM 900 MS in geographic areas in which both GSM 900 and UTRA are deployed.
6.5.3.4.4.2	Co-existence with GSM900 – Co-located base stations	This requirement may be applied for the protection of GSM 900 BTS receivers when GSM 900 BTS and UTRA BS are co-located.
6.5.3.4.5.1	Co-existence with DCS1800 – Operation in the same geographic area	This requirement may be applied for the protection of DCS 1800 MS in geographic areas in which both DCS 1800 and UTRA are deployed.
6.5.3.4.5.2	Co-existence with DCS1800 – Co-located base stations	This requirement may be applied for the protection of DCS 1800 BTS receivers when DCS 1800 BTS and UTRA BS are co-located.
6.5.3.4.6	Co-existence with PHS	This requirement may be applied for the protection of PHS in geographic areas in which both PHS and UTRA are deployed.
6.5.3.4.7	Co-.existence with services in adjacent frequency bands	This requirement may be applied for the protection in bands adjacent to 2110-2170 MHz, as defined in subclause 3.4.1(a) and 1930-1990 MHz, as defined in subclause 3.4.1(b) in geographic areas in which both an adjacent band service and UTRA are deployed.
6.5.3.4.8.1	Co-existence with UTRA TDD – Operation in the same geographic area	This requirement may be applied to geographic areas in which both UTRA-TDD and UTRA-FDD are deployed.
6.5.3.4.8.2	Co-existence with UTRA TDD – Co-located base stations	This requirement may be applied for the protection of UTRA-TDD BS receivers when UTRA-TDD BS and UTRA FDD BS are co-located.
7.5	Blocking characteristic	The requirement is applied according to what

		frequency bands in subclause 3.4.1 that are supported by the BS.
7.5	Blocking characteristics	This requirement may be applied for the protection of UTRA FDD BS receivers when UTRA FDD BS and GSM 900/DCS1800 BS are co-located.