TSG-RAN Meeting #25   **RP-040326**
Palm Springs, USA, 07-09 April 2004   **Agenda item 7.3.3**

Source: **TSG-RAN WG2.**

Title: **CRs to 25.307 R'99 with linked CRs to Rel-4 and Rel-5**

The following CRs are in RP-040326:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Workitem	Doc-2nd-Level
25.307	028	-	R99	Correction to applicable TS25.101 clauses/section for release independent operation	F	3.3.0	3.4.0	TEI	R2-041852
25.307	029	-	Rel-4	Correction to applicable TS25.101 clauses/section for release independent operation	F	4.3.0	4.4.0	TEI	R2-041853
25.307	030	-	Rel-5	Correction to applicable TS25.101 clauses/section for release independent operation	F	5.2.0	5.3.0	TEI	R2-041854

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CHANGE REQUEST

⌘　　　**25.307** CR **028**　　⌘**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:　UICC apps⌘ ☐　　ME **X** Radio Access Network ☐　Core Network ☐

Title: ⌘	Correction to applicable TS25.101 clauses/section for release independent operation	
Source: ⌘	RAN WG2	
Work item code: ⌘	TEI	***Date:*** ⌘ 29/07/2004
Category: ⌘ **F**	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 TR 21.900.	***Release:*** ⌘ R99 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: ⌘	The current RF requirements specified in TS25.307 are loosely specified and cover a number of additional or new parameters/features which are not required for operation in a new frequency band. For example a REL99 Band VI or IV mobile would be required to meet REL6 requirements which are not part of the band related changes and consequently are not in line with the concept of release independence frequency bands
Summary of change: ⌘	The specific sections/clauses which related to the new frequency bands are specified as additional requirements to the current release.
Consequences if not approved: ⌘	It would not be possible to implement a REL99 mobile for the new bands with the requirements specified in TS25.307

Clauses affected: ⌘	4.1.1, 5.1.1, 6.1.1, 7.1.1, 8,1.1

	Y	**N**		
Other specs ⌘		**X**	Other core specifications ⌘	
affected:	**X**		Test specifications	TS34.121
		X	O&M Specifications	

Other comments: ⌘	

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.htm.
Below is a brief summary:

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.

## 4.1.1	RF Requirements

The UE shall comply with the RF requirements for Band III specified in [2]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the following Radio Resource Management requirements for Band III specified in [7]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

Section 9.1:	Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

5.1.1 RF Requirements

The UE shall comply with the RF requirements for Band II specified in [2]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the following Radio Resource Management requirements for Band II specified in [7]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

Section 9.1: Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

# 6.1.1	RF Requirements

The UE shall comply with the RF requirements for Band VI specified in [9]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.9	Spurious emissions
B2.2	Multi-path fading propagation conditions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics;

Section 8: Performance requirement.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the following Radio Resource Management requirements for Band VI specified in [10]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

Section 9.1:	Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

7.1.1 RF Requirements

The UE shall comply with the RF requirements for Band IV specified in [9]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the following Radio Resource Management requirements for Band IV specified in [10]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

Section 9.1: Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

8.1.1 RF Requirements

The UE shall comply with the RF requirements for band V specified in [9]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions
B2.2	Multi-path fading propagation conditions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the following Radio Resource Management requirements for band V specified in [10]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

Section 9.1:   Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

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CHANGE REQUEST

⌘ **25.307** CR **029** ⌘**rev** **-** ⌘ Current version: **4.3.0** ⌘

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

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

Title: ⌘	Correction to applicable TS25.101 clauses/section for release independent operation
Source: ⌘	RAN WG2
Work item code: ⌘ TEI	***Date:*** ⌘ 29/07/2004
Category: ⌘ **F**	***Release:*** ⌘ Rel-4

Use one 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 [TR 21.900](http://www.3gpp.org).

Use one 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: ⌘	The current RF requirements specified in TS25.307 are loosely specified and cover a number of additional or new parameters/features which are not required for operation in a new frequency band. For example a REL4 Band VI or IV mobile would be required to meet REL6 requirements which are not part of the band related changes and consequently are not in line with the concept of release independence frequency bands
Summary of change: ⌘	The specific sections/clauses which related to the new frequency bands are specified as additional requirements to the current release.
Consequences if not approved: ⌘	It would not be possible to implement a REL4 mobile for the new bands with the requirements specified in TS25.307

Clauses affected: ⌘	4.1.1, 5.1.1, 6.1.1, 7.1.1, 8,1.1

	Y	N		
Other specs ⌘		X	Other core specifications ⌘	
affected:	X		Test specifications	TS34.121
		X	O&M Specifications	

Other comments: ⌘	

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Below is a brief summary:

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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.

4.1.1 RF Requirements

The UE shall comply with the RF requirements for Band III specified in [2]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the following Radio Resource Management requirements for Band III specified in [7]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

Section 9.1:   Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

5.1.1 RF Requirements

The UE shall comply with the RF requirements for Band II specified in [2]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the following Radio Resource Management requirements for Band II specified in [7]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

Section 9.1: Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

6.1.1 RF Requirements

The UE shall comply with the RF requirements for Band VI specified in [9]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.9	Spurious emissions
B2.2	Multi-path fading propagation conditions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics;

Section 8: Performance requirement.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the following Radio Resource Management requirements for Band VI specified in [10]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

Section 9.1: Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

7.1.1 RF Requirements

The UE shall comply with the RF requirements for Band IV specified in [9]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the following Radio Resource Management requirements for Band IV specified in [10]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

Section 9.1: Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

8.1.1 RF Requirements

The UE shall comply with the RF requirements for band V specified in [9]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions
B2.2	Multi-path fading propagation conditions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics.

Other requirements for radio reception and transmission requirements are defined in [5].

The UE shall comply with the following Radio Resource Management requirements for band V specified in [10]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

Section 9.1: Measurement Performances for UE.

Other requirements for radio resource management are defined in [6].

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CHANGE REQUEST

⌘ **25.307 CR 030** ⌘**rev** **-** ⌘ Current version: **5.2.0** ⌘

*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 **X** Radio Access Network ☐ Core Network ☐

Title: ⌘	Correction to applicable TS25.101 clauses/section for release independent operation	
Source: ⌘	RAN WG2	
Work item code:⌘	TEI	**Date:** ⌘ 29/07/2004
Category: ⌘ **F**		**Release:** ⌘ Rel-5

Use one 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 TR 21.900.

Use one 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: ⌘	The current RF requirements specified in TS25.307 are loosely specified and cover a number of additional or new parameters/features which are not required for operation in a new frequency band.

For example a REL5 Band VI or IV mobile would be required to meet REL6 requirements which are not part of the band related changes and consequently are not in line with the concept of release independence frequency bands |
| **Summary of change:**⌘ | The specific sections/clauses which related to the new frequency bands are specified as additional requirements to the current release |
| **Consequences if not approved:** ⌘ | It would not be possible to implement a REL5 mobile for the new bands with the requirements specified in TS25.307 |

Clauses affected: ⌘	4.1.1, 5.1.1, 6.1.1, 7.1.1, 8,1.1

Other specs affected: ⌘	Y	N		⌘	
		X	Other core specifications	⌘	
	X		Test specifications		TS34.121
		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.

6.1.1 RF Requirements

The UE shall comply with the RF requirements for Band VI specified in [9]. These requirements are:

Section / Clause	Description
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.9	Spurious emissions
B2.2	Multi-path fading propagation conditions

~~Section 5: Frequency bands and channel arrangement;~~

~~Section 6: Transmitter characteristics;~~

~~Section 7: Receiver characteristics;~~

~~Section 8: Performance requirement.~~

~~Other requirements for radio reception and transmission requirements are defined in [2].~~

The UE shall comply with the following Radio Resource Management requirements for Band VI specified in [10]. These requirements are:

Section / Clause	Description
9.1	Measurement Performances for UE.

~~Section 9.1: Measurement Performances for UE.~~

~~Other requirements for radio resource management are defined in [7].~~

6.1.2 Signalling Requirements

The UE shall support the following RRC extensions specified in [8]:

- The parameter value "Band VI" for the IE "FDD frequency band" contained within the IEs "UE radio access capability extension" and "Measurement capability extension". The UE shall use this parameter value in order to signal its radio access capabilities relating to Band VI.

- The IE "Frequency band indicator" contained within the IEs "System Information Block type 5" and "System Information Block type 6". The UE shall use this IE to determine whether it is compliant with the RF requirement in the indicated frequency band, in case the UE is in the frequency that belongs to multiple frequency bands.

7 Band IV Independent of Release

Band IV is specified in Release 6 but is defined as a release-independent frequency band. This approach aligns Band IV with other frequency bands when considering features that have to be supported in different releases.

7.1 Band IV UE

UEs that conform to Release 5 and support Band IV shall support the following requirements in Release 6

7.1.1 RF Requirements

The UE shall comply with the RF requirements for Band IV specified in [9]. These requirements are:

Section / Clause	Description

5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions
7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions

~~Section 5: Frequency bands and channel arrangement;~~

~~Section 6: Transmitter characteristics;~~

~~Section 7: Receiver characteristics.~~

~~Other requirements for radio reception and transmission requirements are defined in [2].~~

The UE shall comply with the following Radio Resource Management requirements for Band IV specified in [10]. These requirements are:

Section / Clause	**Description**
9.1	Measurement Performances for UE.

~~Section 9.1: Measurement Performances for UE.~~

~~Other requirements for radio resource management are defined in [7].~~

7.1.2 Signalling Requirements

The UE shall be able to decode "System Information Block type 5bis" specified in [8].

The UE shall support the following RRC extensions specified in [8]:

- The parameter value "Band IV" for the IE "FDD frequency band" contained within the IEs "UE radio access capability extension" and "Measurement capability extension". The UE shall use this parameter value in order to signal its radio access capabilities relating to Band IV.

- The IE "Frequency band indicator" contained within the IEs "System Information Block type 5bis" and "System Information Block type 6". The UE shall use this IE to determine whether it is compliant with the RF requirement in the indicated frequency band, in case the UE is in the frequency that belongs to multiple frequency bands.

The UE shall be able to at least decode any unrelated RRC extensions that can be included in between the release it supports, and the IE "Frequency band indicator".

8 Band V Independent of Release

Band V is specified in Release 6 but is defined as a release-independent frequency band. This approach aligns Band V with other frequency bands when considering features that have to be supported in different releases.

8.1 Band V UE

UEs that conform to Release 5 and support band V shall support the following requirements in Release 6

8.1.1 RF Requirements

The UE shall comply with the RF requirements for band V specified in [9]. These requirements are:

Section / Clause	**Description**
5	Frequency bands and channel arrangement
6.2.1	UE maximum output power
6.6	Output RF spectrum emissions

7.3	Reference sensitivity level
7.6	Blocking characteristics
7.8	Intermodulation characteristics
7.9	Spurious emissions
B2.2	Multi-path fading propagation conditions

Section 5: Frequency bands and channel arrangement;

Section 6: Transmitter characteristics;

Section 7: Receiver characteristics.

Other requirements for radio reception and transmission requirements are defined in [2].

The UE shall comply with the following Radio Resource Management requirements for band V specified in [10]. These requirements are:

Section / Clause	**Description**
9.1	Measurement Performances for UE.

Section 9.1:   Measurement Performances for UE.

Other requirements for radio resource management are defined in [7].

8.1.2   Signalling Requirements

The UE shall support the following RRC extensions specified in [8]:

-    The parameter value "Band V" for the IE "FDD frequency band" contained within the IEs "UE radio access capability extension" and "Measurement capability extension". The UE shall use this parameter value in order to signal its radio access capabilities relating to band V.

-    The IE "Frequency band indicator" contained within the IEs "System Information Block type 5" and "System Information Block type 6". The UE shall use this IE to determine whether it is compliant with the RF requirement in the indicated frequency band, in case the UE is in the frequency that belongs to multiple frequency bands.

The UE shall be able to at least decode any unrelated RRC extensions that can be included in between the release it supports, and the IE "Frequency band indicator".

Annex A (informative): Change history

Change history								
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment		Old	New
09/2001	RP-13	RP-010557			Approved at TSG-RAN #13 and placed under Change Control		-	3.0.0
	RP-13	RP-010558	001	1	Correction to create Release 4		3.0.0	4.0.0
12/2001	RP-14	RP-010759	003		Inclusion of release independent RF related information		4.0.0	4.1.0
03/2002	RP-15	RP-020096	004		Creation of Rel-5 specification		4.1.0	5.0.0
12/2003	RP-22	RP-030630	009	1	Introduction of UMTS800		5.0.0	5.1.0
03/2004	RP-23	RP-040093	013		Additional performance requirement for UMTS800		5.1.0	5.2.0
	RP-23	RP-040092	015	1	Frequency band alignment with 25.101		5.1.0	5.2.0
	RP-23	RP-040090	022		Introduction of UMTS1700/2100 (Band IV)		5.1.0	5.2.0
	RP-23	RP-040091	026		Introduction of UMTS850(Band V)		5.1.0	5.2.0