

**3GPP TSG RAN Meeting #17
Biarritz, France, 3 – 6, September 2002**

RP-020568

Title: Agreed CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.212

Source: TSG-RAN WG1

Agenda item: 7.1.3

No.	Spec	CR	Rev	R1 T-doc	Subject	Phase	Cat	Workitem	V_old	V_new
1	25.212	153	2	R1-02-1175	Clarification of the definition of layer 1 transport channel numbers	R99	F	TEI	3.10.0	3.11.0
2	25.212	154	2	R1-02-1175	Clarification of the definition of layer 1 transport channel numbers	Rel-4	A	TEI	4.5.0	4.6.0
3	25.212	155	2	R1-02-1175	Clarification of the definition of layer 1 transport channel numbers	Rel-5	A	TEI	5.1.0	5.2.0

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R1-02-1175

CR-Form-v7

CHANGE REQUEST

⌘ **25.212 CR 153** ⌘ rev **2** ⌘ 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 Core Network

Title:	⌘ Clarification of the Definition of Layer 1 Transport Channel Numbers		
Source:	⌘ TSG RAN WG1		
Work item code:	⌘ TEI	Date:	⌘ 22/08/2002
Category:	⌘ F	Release:	⌘ R99
	Use <u>one</u> of the following categories:		Use <u>one</u> 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 be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	⌘ Transport Channel Numbers are used in the L1 specifications to identify transport channels. The current version of the specification suggests that the L1 transport channel number is related to a TrCH ID (transport channel identity), which is assigned to L1 by L2. This is not correct, since the TrCH ID is assigned by L3 and not by L2. Further, the relation between the L1 transport channel number and the higher layer TrCH ID is not clear and leaves room for misinterpretations which might affect the order in which transport channels are multiplexed into a CCTrCH.
Summary of change:	⌘ It is proposed to correct the definition of the L1 transport channel number and to explicitly specify the relation between L1 transport channel numbers and L3 transport channel identities. Impact Analysis: Impact is isolated only to Layer 1 Trch multiplexing: <ul style="list-style-type: none"> • Correction of a definition where the specification was <ul style="list-style-type: none"> ○ Unclear Would not affect implementations behaving as indicated in the CR, may affect implementations assuming a different relation between L1 transport channel numbers and higher layer TrCH IDs.
Consequences if not approved:	⌘ Different implementations may assume a different ordering of TrCHs for multiplexing TrCHs into a CCTrCH. In this case, decoding of the CCTrCH will fail.

Clauses affected:	⌘ 3.1
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Other specs affected:	⌘	<table border="1"><tr><th>Y</th><th>N</th></tr><tr><td></td><td>X</td></tr><tr><td></td><td>X</td></tr><tr><td></td><td>X</td></tr></table>	Y	N		X		X		X	Other core specifications	⌘	
		Y	N										
			X										
	X												
	X												
	Test specifications												
	O&M Specifications												
Other comments:	⌘												

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

TG: Transmission Gap is consecutive empty slots that have been obtained with a transmission time reduction method. The transmission gap can be contained in one or two consecutive radio frames.

TGL: Transmission Gap Length is the number of consecutive empty slots that have been obtained with a transmission time reduction method. $0 \leq TGL \leq 14$. The CFNs of the radio frames containing the first empty slot of the transmission gaps, the CFNs of the radio frames containing the last empty slot, the respective positions N_{first} and N_{last} within these frames of the first and last empty slots of the transmission gaps, and the transmission gap lengths can be calculated with the compressed mode parameters described in [5].

TrCH number: ~~Transport channel number represents a TrCH ID assigned to L1 by L2. Transport channels are multiplexed to the CCTrCH in the ascending order of these IDs. The transport channel number identifies a TrCH in the context of L1. The L3 transport channel identity (TrCH ID) maps onto the L1 transport channel number. The mapping between the transport channel number and the TrCH ID is as follows: TrCH 1 corresponds to the TrCH with the lowest TrCH ID, TrCH 2 corresponds to the TrCH with the next lowest TrCH ID and so on.~~

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CHANGE REQUEST

⌘ **25.212 CR 154** ⌘ rev **2** ⌘ Current version: **4.5.0** ⌘

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Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Clarification of the Definition of Layer 1 Transport Channel Numbers		
Source:	⌘ TSG RAN WG1		
Work item code:	⌘ TEI	Date:	⌘ 22/08/2002
Category:	⌘ A	Release:	⌘ Rel-4
	<i>Use <u>one</u> of the following categories:</i> 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 .		<i>Use <u>one</u> of the following releases:</i> 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:	⌘ Transport Channel Numbers are used in the L1 specifications to identify transport channels. The current version of the specification suggests that the L1 transport channel number is related to a TrCH ID (transport channel identity), which is assigned to L1 by L2. This is not correct, since the TrCH ID is assigned by L3 and not by L2. Further, the relation between the L1 transport channel number and the higher layer TrCH ID is not clear and leaves room for misinterpretations which might affect the order in which transport channels are multiplexed into a CCTrCH.
Summary of change:	⌘ It is proposed to correct the definition of the L1 transport channel number and to explicitly specify the relation between L1 transport channel numbers and L3 transport channel identities. Impact Analysis: Impact is isolated only to Layer 1 Trch multiplexing: <ul style="list-style-type: none"> • Correction of a definition where the specification was <ul style="list-style-type: none"> ○ Unclear Would not affect implementations behaving as indicated in the CR, may affect implementations assuming a different relation between L1 transport channel numbers and higher layer TrCH IDs.
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		Y	N										
			X										
	X												
	X												
	Test specifications												
	O&M Specifications												
Other comments:	⌘												

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CHANGE REQUEST

⌘ **25.212 CR 155** ⌘ rev **2** ⌘ Current version: **5.1.0** ⌘

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Work item code:	⌘ TEI	Date:	⌘ 22/08/2002
Category:	⌘ A	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
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	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
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		Y	N										
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