

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

**RP-020570**

**Title:** Agreed CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.222

**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	25.222	095	1	R1-02-1176	Clarification of the definition of layer 1 transport channel numbers	R99	F	TEI	3.9.0	3.10.0
2	25.222	096	1	R1-02-1176	Clarification of the definition of layer 1 transport channel numbers	Rel-4	A	TEI	4.4.0	4.5.0
3	25.222	097	1	R1-02-1176	Clarification of the definition of layer 1 transport channel numbers	Rel-5	A	TEI	5.1.0	5.2.0

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**R1-02-1176**

CR-Form-v7

## CHANGE REQUEST

⌘ **25.222 CR 095** ⌘ rev **1** ⌘ Current version: **3.9.0** ⌘

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

<b>Title:</b>	⌘ Clarification of the Definition of Layer 1 Transport Channel Numbers		
<b>Source:</b>	⌘ TSG RAN WG1		
<b>Work item code:</b>	⌘ TEI	<b>Date:</b>	⌘ 21/08/2002
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ R99
	<i>Use <u>one</u> of the following categories:</i> <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		<i>Use <u>one</u> of the following releases:</i> <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ 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.
<b>Summary of change:</b>	⌘ 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.  <b>Impact Analysis:</b> Impact is isolated only to Layer 1 Trch multiplexing: <ul style="list-style-type: none"> <li>• Correction of a definition where the specification was                             <ul style="list-style-type: none"> <li>○ Unclear</li> </ul> </li> </ul> 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.
<b>Consequences if not approved:</b>	⌘ Different implementations may assume a different ordering of TrCHs for multiplexing TrCHs into a CCTrCH. In this case, decoding of the CCTrCH will fail.

<b>Clauses affected:</b>	⌘ 3.1
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	Y	N		
<b>Other specs affected:</b>	⌘	X	Other core specifications	⌘
		X	Test specifications	
		X	O&M Specifications	
<b>Other comments:</b>	⌘			

## 3.1 Definitions

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

**TrCH number:** ~~transport channel number represents a TrCH ID assigned to L1 by L2. Transport channels are multiplexed to the CTrCH 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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**R1-02-1176**

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## CHANGE REQUEST

⌘ **25.222 CR 096** ⌘ rev **1** ⌘ Current version: **4.4.0** ⌘

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

<b>Title:</b>	⌘ Clarification of the Definition of Layer 1 Transport Channel Numbers		
<b>Source:</b>	⌘ TSG RAN WG1		
<b>Work item code:</b>	⌘ TEI	<b>Date:</b>	⌘ 21/08/2002
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
	<b>B</b> (addition of feature),		R97 (Release 1997)
	<b>C</b> (functional modification of feature)		R98 (Release 1998)
	<b>D</b> (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ 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.
<b>Summary of change:</b>	⌘ 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.
	<p><b>Impact Analysis:</b></p> <p>Impact is isolated only to Layer 1 Trch multiplexing:</p> <ul style="list-style-type: none"> <li>• Correction of a definition where the specification was             <ul style="list-style-type: none"> <li>○ Unclear</li> </ul> </li> </ul> <p>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.</p>
<b>Consequences if not approved:</b>	⌘ Different implementations may assume a different ordering of TrCHs for multiplexing TrCHs into a CCTrCH. In this case, decoding of the CCTrCH will fail.

<b>Clauses affected:</b>	⌘ 3.1
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<b>Other specs affected:</b>	⌘	<table border="1"><tr><td>Y</td><td>N</td></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											
<b>Other comments:</b>	⌘												

## 3.1 Definitions

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

**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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**R1-02-1176**

CR-Form-v7

## CHANGE REQUEST

⌘ **25.222 CR 097** ⌘ rev **1** ⌘ Current version: **5.1.0** ⌘

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

<b>Title:</b>	⌘ Clarification of the Definition of Layer 1 Transport Channel Numbers		
<b>Source:</b>	⌘ TSG RAN WG1		
<b>Work item code:</b>	⌘ TEI	<b>Date:</b>	⌘ 21/08/2002
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
	<b>B</b> (addition of feature),		R97 (Release 1997)
	<b>C</b> (functional modification of feature)		R98 (Release 1998)
	<b>D</b> (editorial modification)		R99 (Release 1999)
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<b>Clauses affected:</b>	⌘ 3.1
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	Y	N											
		X											
	X												
	X												
		Test specifications											
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<b>Other comments:</b>	⌘												

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