TSGRP#15(02) 0172

TSG-RAN Meeting #15 Cheju, Korea, 5 - 8 March 2002

Title: Agreed CRs to TS 25.425

Source: TSG-RAN WG3

Agenda item: 7.3.3/7.3.4

RP_Num	Tdoc_Num	Specification	CR_Num	Revision	3G_Release	CR_Subject	CR_Category	Cur_Ver_Num	Workitem
				_Num					
RP-020172	R3-020707	25.425	045		R99	Transport Bearer replacement for the USCH	F	3.6.0	TEI
RP-020172	R3-020708	25.425	046		Rel-4	Transport Bearer replacement for the USCH	A	4.2.0	TEI

CHANGE REQUEST											
						(OL					
#	25	.425	CR 045	*	rev	-	Ж	Current vers	sion:	3.6.0	#
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.											
Proposed change affects: 第 (U)SIM ME/UE Radio Access Network X Core Network											
Title: 第	Transport Bearer replacement for the USCH										
Source: #	R-\	NG3									
Work item code: ₩	TE	I						Date: ♯	Fel	bruary 20	02
Category: ж	F							Release: ♯	R9	9	
	Deta	F (es A (co B (A) C (F) D (E)	f the following of sential corrections of the didition of featurunctional modificationial modification of the discreption of th	on) correction in e), ication of fea tion) he above cat	ture)			Use <u>one</u> of 2 e) R96 R97 R98 R99 REL-4 REL-5	(GSN (Rele (Rele (Rele (Rele (Rele	ollowing rel M Phase 2) Pase 1996) Pase 1997) Pase 1999) Pase 4) Pase 5)	
Bossen for shape	. 90	The	DNCAD	oification off	ara th	0.000	a i bili	turin the Cune	hron	iood Dadi	م ا نماد
Reason for change	е: ж	Red US	e RNSAP spectonfiguration to CH]. However USCH is not s	o replace the, the exact	ne trar	nspor	t bea	rer used for tl	he DS	SCH and	[TDD –
Summary of chang	ge: #	Imp Imp release This release	e subclause for CH. pact analysis: pact assessments ease): s CR has isolated asse), because CH. e CR may hav	ent towards ated impact e it only affe	the power with tects the	reviou he pr ne Tra	us ve eviou anspo	rsion of the spus version of toors Bearer Rep	pecifi	cation (sa	ame on (same
	20	The des	e impact is cor ecription which ecifications.	nsidered sm could be d	nall sir erived	nce th	ie CF n the	R is in line with previously ex	isting	text in th	
Consequences if not approved:	#	If th	is CR is not a	pproved, th	e spe	cifica	tion \	will remain inc	compl	lete.	
Clauses affected:	Ħ	5.3	1								
Other specs	ж	X	Other core spe	ecifications	я	TS	25.4	425 v4.2.0 CF 435 v3.9.0 CF 435 v4.3.0 CF	R 76		

affected:		Test specifications O&M Specifications	
045	0.0		
Other comments:	\mathfrak{H}		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G Specs/CRs.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://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

5.3 General

5.3.1 DSCH / [TDD – USCH] transport bearer replacement

As described in RNSAP [8], transport bearer replacement can be achieved for a DSCH <u>[TDD – or USCH]</u> by using the Synchronised Radio Link Reconfiguration Preparation procedure in combination with the Synchronised Radio Link Reconfiguration Commit procedure. The following steps can be discerned:

- 1) The new transport bearer is established after which 2 transport bearers exist in parallel.
- 2) The transport channel(s) is/are switched to the new transport bearer.
- 3) The old transport bearer is released.

In step 1), communication on the old transport bearer continues as normal.

In step 2), the moment of switching is determined as follows:

- The DSCH DATA FRAMEs [TDD - or USCH DATA FRAMEs] shall be transported on the new transport bearer from the CFN indicated in the RADIO LINK RECONFIGURATION COMMIT message.

Starting from this CFN the RNCs shall support all the applicable Common Transport Channels frame protocol procedures on the new transport bearer and no requirements exist regarding support of Common Transport Channels frame protocol procedures on the old transport bearer.

Finally in step 3), the old transport bearer is released.

6 Frame Structure and Coding

6.1 General

The general structure of a Common Transport Channel frame consists of a header and a payload. This structure is depicted in the figure 7.

Header	Payload: Data or Control Information

Figure 7: General Frame Structure

The header shall contain the frame type field and information related to the frame type.

There are two types of frames (indicated by the Frame Type field).

- 1. Data frame.
- 2. Control frame.

In the present document the structure of frames will be specified by using pictures similar to the following figure 8.

. CR-Form-v3									
	CHANGE R	REQUEST							
¥ 25	.425 CR 046 **	rev # (Current version: 4	.2.0 [#]					
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.									
Proposed change affects:									
Title:	nsport Bearer replacement for	the USCH							
Source: # R-\	WG3								
Work item code:	l		<i>Date:</i>	ary 2002					
Category: # A		ı	Release: # REL-4						
Deta	one of the following categories: F (essential correction) A (corresponds to a correction in B (Addition of feature), C (Functional modification of feat D (Editorial modification) iiled explanations of the above cat bund in 3GPP TR 21.900.	ture)	Use <u>one</u> of the follow 2 (GSM PI R96 (Release R97 (Release R98 (Release R99 (Release REL-4 (Release REL-5 (Release	hase 2) e 1996) e 1997) e 1998) e 1999) e 4)					
Reason for change: 第	Reason for change: # The RNSAP specification offers the possibility in the Synchronised Radio Link Reconfiguration to replace the transport bearer used for the DSCH and [TDD – USCH]. However, the exact behaviour for such a transport bearer replacement for USCH is not specified.								
Summary of change: #	The subclause for DSCH transport bearer replacement is extended to include the USCH. Impact analysis: This CR has isolated impact with the previous version of the specification (same release), because it only affects the Transport Bearer Replacement for the USCH. The CR may have impact under functional point of view. The impact is considered small since the CR is in line with the implicit procedure description which could be derived from the previously existing text in the Specifications.								
Consequences if # not approved:	If this CR is not approved, the	e specification wi	II remain incomplete).					
Clauses affected: 第	5.3.1								
Other specs # affected:	X Other core specifications Test specifications O&M Specifications	TS 25.43	25 v3.6.0 CR 45 35 v3.9.0 CR 76 35 v4.3.0 CR 77						

Other comments:

 \mathfrak{R}

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G Specs/CRs.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://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

5.3 General

5.3.1 DSCH / [TDD – USCH] transport bearer replacement

As described in RNSAP [8], transport bearer replacement can be achieved for a DSCH [TDD – or USCH] by using the Synchronised Radio Link Reconfiguration Preparation procedure in combination with the Synchronised Radio Link Reconfiguration Commit procedure. In both cases the following steps can be discerned:

- 1) The new transport bearer is established after which 2 transport bearers exist in parallel.
- 2) The transport channel(s) is/are switched to the new transport bearer.
- 3) The old transport bearer is released.

In step 1), communication on the old transport bearer continues as normal.

In step 2), the moment of switching is determined as follows:

- The DSCH DATA FRAMEs [TDD – or USCH DATA FRAMEs] shall be transported on the new transport bearer from the CFN indicated in the RADIO LINK RECONFIGURATION COMMIT message.

Starting from this CFN the RNCs shall support all the applicable Common Transport Channels frame protocol procedures on the new transport bearer and no requirements exist regarding support of Common Transport Channels frame protocol procedures on the old transport bearer.

Finally in step 3), the old transport bearer is released.

6 Frame Structure and Coding

6.1 General

The general structure of a Common Transport Channel frame consists of a header and a payload. This structure is depicted in the figure 7.

Header Payload: Data or Control Information	
---	--

Figure 7: General Frame Structure

The header shall contain the frame type field and information related to the frame type.

There are two types of frames (indicated by the Frame Type field).

- 1. Data frame.
- 2. Control frame.

In the present document the structure of frames will be specified by using pictures similar to the following figure 8.