Source: **T1**

Title: **CR's to TS 34.123-3 v3.2.1 for approval**

Agenda item: **5.1.3**

Document for: **Approval**

This document contains 9 CRs to TS 34.123-3 v3.2.1. These CRs have been agreed by T1 by e-mail approval and are put forward to TSG T for approval.

CR related to new TTCN test cases for R99:

Spec	CR	Rev	Rel.	Subject	Cat	Version Current	Version -New	Doc-2nd-Level
34.123-3	140	-	R99	Addition of RRC test case 8.2.2.1 to 34.123-3	F	3.2.1	3.3.0	T1-031280
34.123-3	141	-	R99	Addition of RRC test case 8.2.2.11 to 34.123-3	F	3.2.1	3.3.0	T1-031281
34.123-3	142	-	R99	Addition of RRC test case 8.2.6.1 to 34.123-3	F	3.2.1	3.3.0	T1-031282
34.123-3	143	-	R99	Addition of RRC test case 8.2.2.17 to 34.123-3	F	3.2.1	3.3.0	T1-031283
34.123-3	144	-	R99	Addition of RRC test case 8.2.4.10 to 34.123-3	F	3.2.1	3.3.0	T1-031284
34.123-3	145	-	R99	Addition of RRC test case 8.2.6.7 to 34.123-3	F	3.2.1	3.3.0	T1-031285
34.123-3	146	-	R99	Addition of RRC test case 8.2.2.8 to 34.123-3	F	3.2.1	3.3.0	T1-031286
34.123-3	147	-	R99	Addition of RRC test case 8.2.2.10 to 34.123-3	F	3.2.1	3.3.0	T1-031287
34.123-3	148	-	R99	Test case 12.5	F	3.2.1	3.3.0	T1-031288

3GPP TSG-T1 Meeting #21
Budapest, Hungary, 3rd – 7th November 2003

Tdoc ⌘T1-031280

CR-Form-v7

CHANGE REQUEST

⌘ **TS 34.123-3 CR 031280** ⌘**rev** **-** ⌘ Current version: **3.2.1** ⌘

*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 ☐ Core Network ☐

Title:	⌘	Addition of RRC test case 8.2.2.1 to RRC ATS V3.2.1
Source:	⌘	T1
Work item code:	⌘	N/A
Date:	⌘	15/09/03
Category:	⌘	**F**
Release:	⌘	R99

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:	⌘	To add verified GCF package 2 RRC test case 8.2.2.1 to the approved RRC ATS V3.2.1
Summary of change:	⌘	This document lists all changes applied to test case 8.2.2.1 required for approval. This CR is a revision of T1-031000 and includes the ETSI/MCC160 feedback and the R&S conclusion on their comments and corrections made in the ETSI/MCC160 TTCN V330a implementation.
Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	N/A			
Other specs affected:	⌘	**Y**	**N**		
			X	Other core specifications	⌘
			X	Test specifications	
			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.

3GPP TSG- T1 Meeting #20 **T1-031280**
Munich, Germany, 28 July – 01 August 2003

Title: **Changes to test case 8.2.2.1 required for approval**

Source: T1

Agenda Item: TTCN Issues

Document for: Approval

Contact: Thomas Moosburger
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1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.2.1 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

3 Verification Test Summary

Test Case:	TC_8_2_2_1
Test Group:	RRC/RRC_RB_Reconfig/
ATS Version:	iWD-TVB2002-03_D03wk24 + essential modifications
System Simulator used:	Rohde & Schwarz 3G system simulator CRTU-W
UE used:	Nokia 3G UE 6650
Verification Status:	PASS

4 Corrections required for test case 8.2.2.1

4.1 Introduction

This section describes the changes required to make test case 8.2.2.1 run correctly with a 3G UE. All modifications are marked with label "**WA#BasicM<number>**" for changes to the BasicM TTCN module and with label "**WA#RRC<number>**" for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk24.mp which is part of the iWD-TVB2002-03_D03wk24 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 and 2 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) which are already fixed in the V3.21 release and are therefore not documented in this CR:

WA#BasicM4011, WA#BasicM4012, WA#BasicM4017, WA#BasicM4020, WA#RRC3059, WA#RRC3079, WA#RRC3080, WA#RRC3081, WA#RRC4022, WA#RRC4031, WA#RRC3051, WA#RRC3068

For each correction the ETSI/MCC160 feedback and final R&S conclusion on the TTCN implementation is documented. These changes were implemented by MCC160 in their V330a release and the test case passed in regression-tests.

4.2 cr_ActPDP_ContextReqMO (WA#BasicM4014)

Constraint name	cr_ActPDP_ContextReqMO
Reason for change	see Anritsu CR - T1S.030419 Sec. 2.2.5
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoDCH for constraint definition
Source of change	new change
Label	WA#BasicM4014
ETSI comment	Accepted Shall be changed also in cr_ActPDP_ContextReqMO_Any, if possible.
R&S conclusion	V330a implementation OK

4.3 cr_ActPDP_ContextReqFACH_MO (WA#RRC3050)

Constraint name	cr_ActPDP_ContextReqFACH_MO
Reason for change	Anritsu CR - T1S.030427 Sec. 2.2.4
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoFACH for constraint definition
Source of change	new change
Label	WA#RRC3050
ETSI comment	Agreed in principle This change is not applicable in principle for this test case, since cell_DCH is choosen as in preamble ts_RRC_InitVariables (cell_DCH). But to be inline with same structure used for DCH (cr_ActPDP_ContextReqMO), ETSI agrees in principle this shall be changed also in cr_ActPDP_ContextReqRspMO, if possible. In the latter, also other params should be checked, not simply be set to '*'.
R&S conclusion	V330a implementation OK

4.4 ts_RRC_SendRB_SetUpFACH_PS (WA#RRC3055)

Test step name	ts_RRC_SendRB_SetUpFACH_PS
Reason for change	In test step ts_RRC_SendRB_SetUpFACH_PS a delay is set to 300 ms before the RAB Setup Complete is expected. However, the RAB Setup Complete is received in less than 250 ms.
Summary of change	Remove ts_RRC_Delay
Source of change	new change
Label	WA#RRC3055

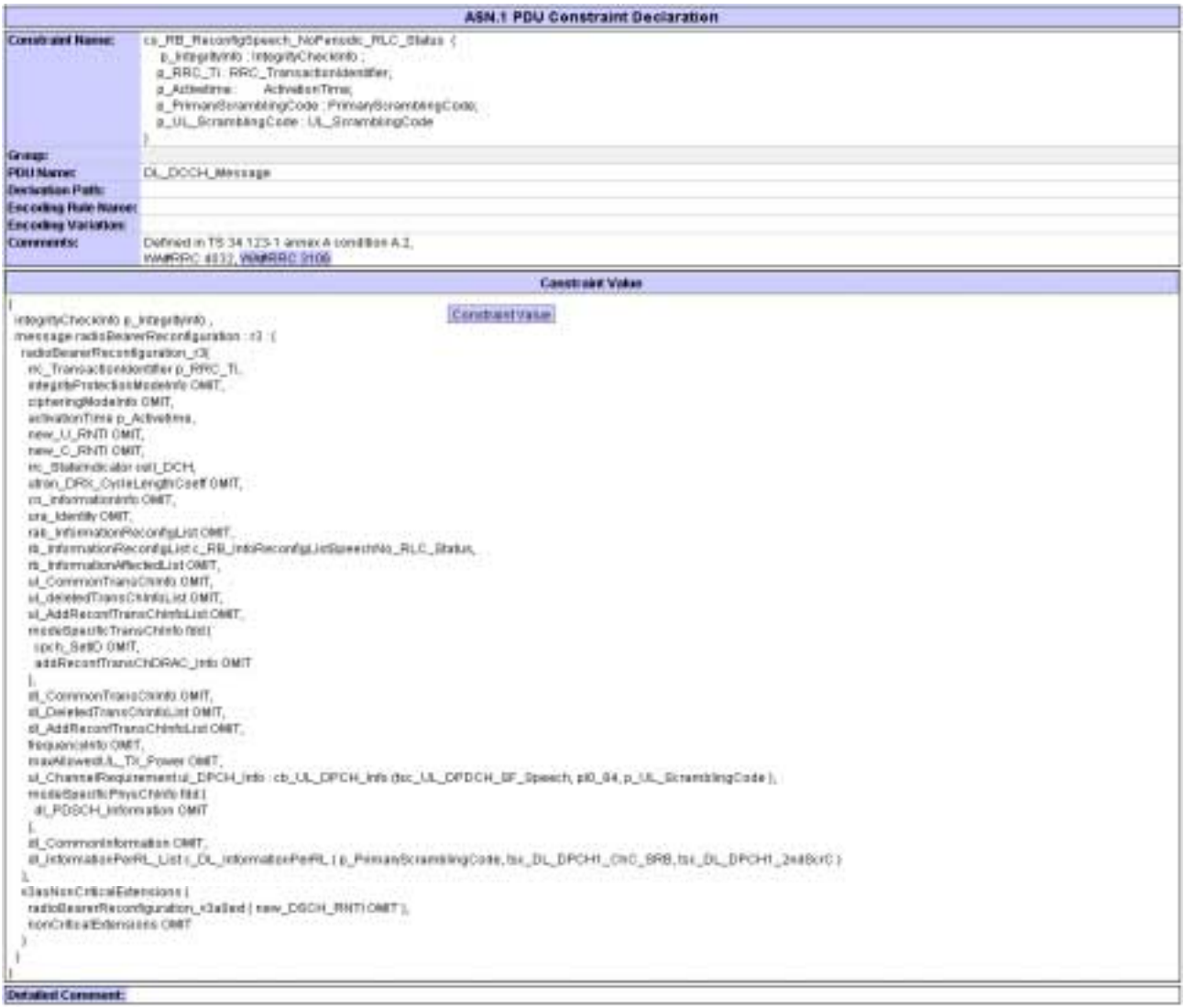
ETSI comment	Accepted and will be done for v330.
R&S conclusion	OK in V330a

4.5 ts_CRLC_UL_CipherCfg_RAB (WA#RRC3073)

Test step name	ts_CRLC_UL_CipherCfg_RAB
Reason for change	see Anritsu CR T1S.030409, 2.2.12, the ciphering activation request and confirm steps are only needed when ciphering is enabled
Summary of change	see CR
Source of change	see CR
Label	WA#RRC3073
ETSI comment	Rejected. This change have been rised several times and it was always clarified, that the value of RB_ActivationTimeInfoList is needed for a SS to calculate the value independent of ciphering activated or not.
R&S conclusion	V330a implementation OK

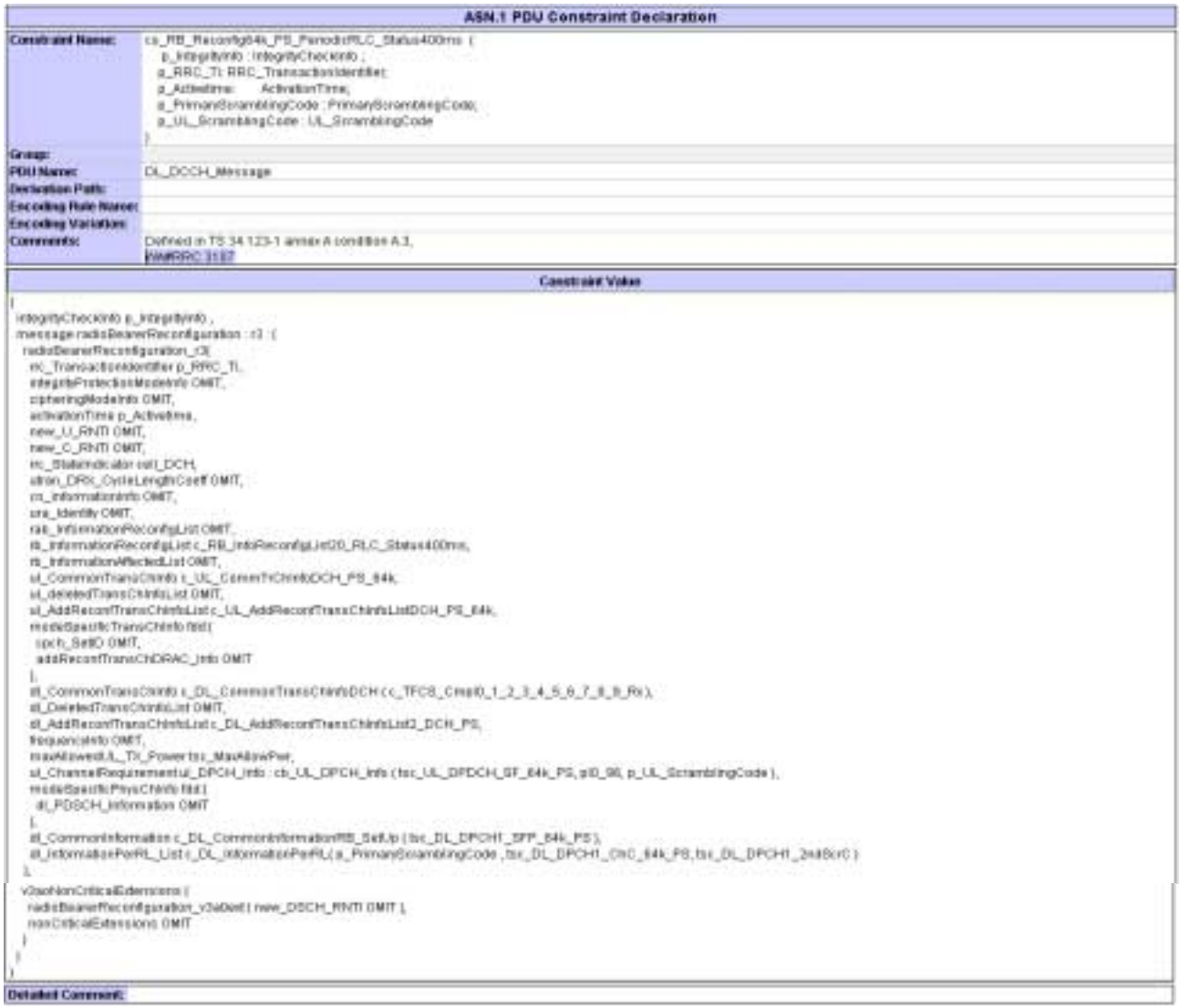
4.6 cs_RB_ReconfigSpeech_NoPeriodic_RLC_Status (WA#RRC3106)

Constraint name	cs_RB_ReconfigSpeech_NoPeriodic_RLC_Status
Reason for change	In constraint cs_RB_ReconfigSpeech_NoPeriodic_RLC_Status a different SecScramCode is used, but not local reconfigured
Summary of change	Replace parameter in constraint from tsc_DL_DPCH_SrcC_2 to tsc_DL_DPCH1_2ndSrcC
Source of change	new change
Label	WA#RRC3106
ETSI comment	Rejected
R&S conclusion	OK



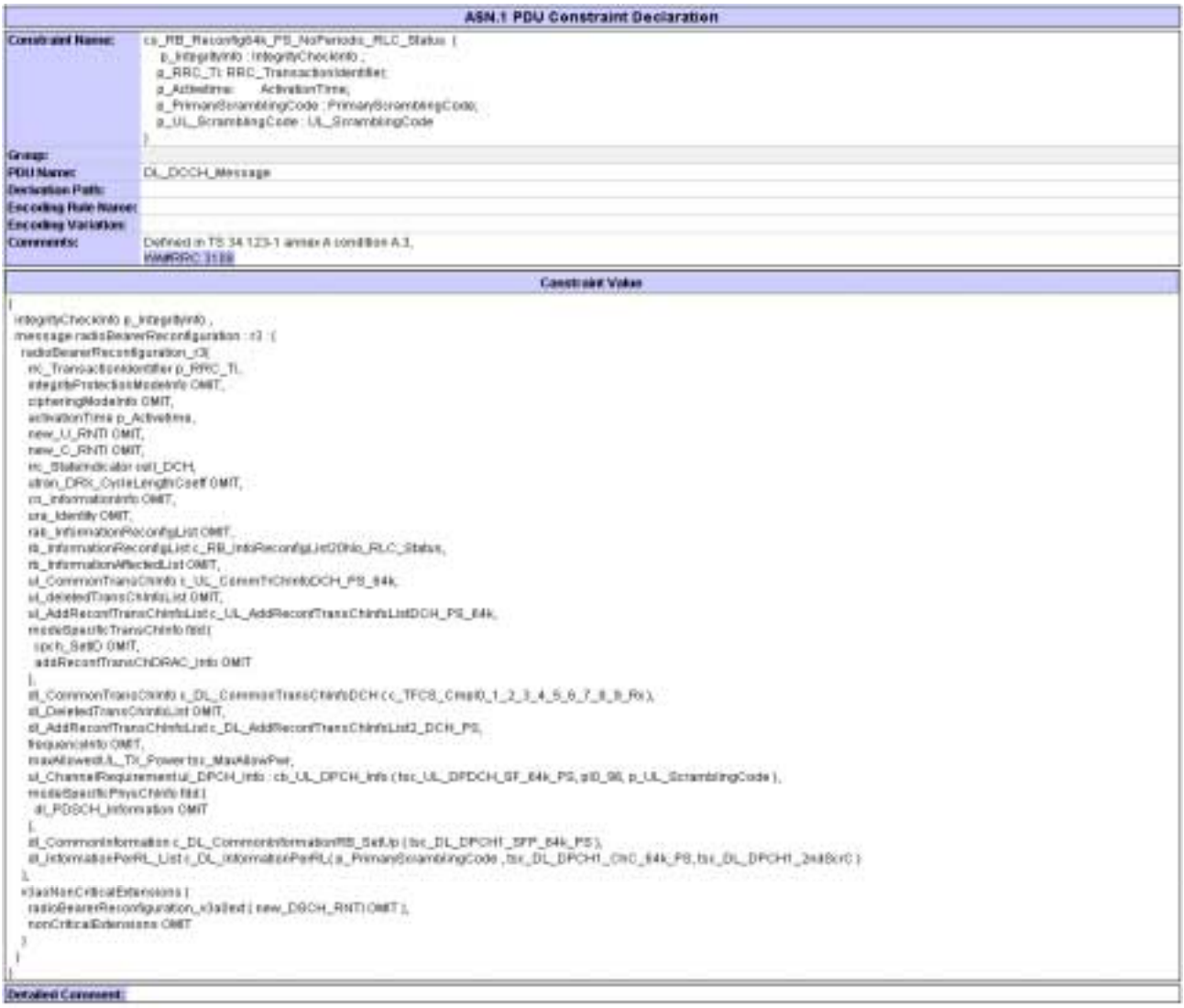
4.7 cs_RB_Reconfig64k_PS_PeriodicRLC_Status400ms (WA#RRC3107)

Constraint name	cs_RB_Reconfig64k_PS_PeriodicRLC_Status400ms
Reason for change	In constraint cs_RB_Reconfig64k_PS_PeriodicRLC_Status400ms a different SecScramCode is used, but not local reconfigured
Summary of change	Replace parameter in constraint from tsc_DL_DPCH_SrcC_2 to tsc_DL_DPCH1_2ndSrcC
Source of change	new change
Label	WA#RRC3107
ETSI comment	Rejected
R&S conclusion	OK



4.8 cs_RB_Reconfig64k_PS_NoPeriodic_RLC_Status (WA#RRC3108)

Constraint name	cs_RB_Reconfig64k_PS_NoPeriodic_RLC_Status
Reason for change	In constraint cs_RB_Reconfig64k_PS_NoPeriodic_RLC_Status a different SecScramCode is used, but not local reconfigured
Summary of change	Replace parameter in constraint from tsc_DL_DPCH_SrcC_2 to tsc_DL_DPCH1_2ndSrcC
Source of change	new change
Label	WA#RRC3108
ETSI comment	Rejected
R&S conclusion	OK

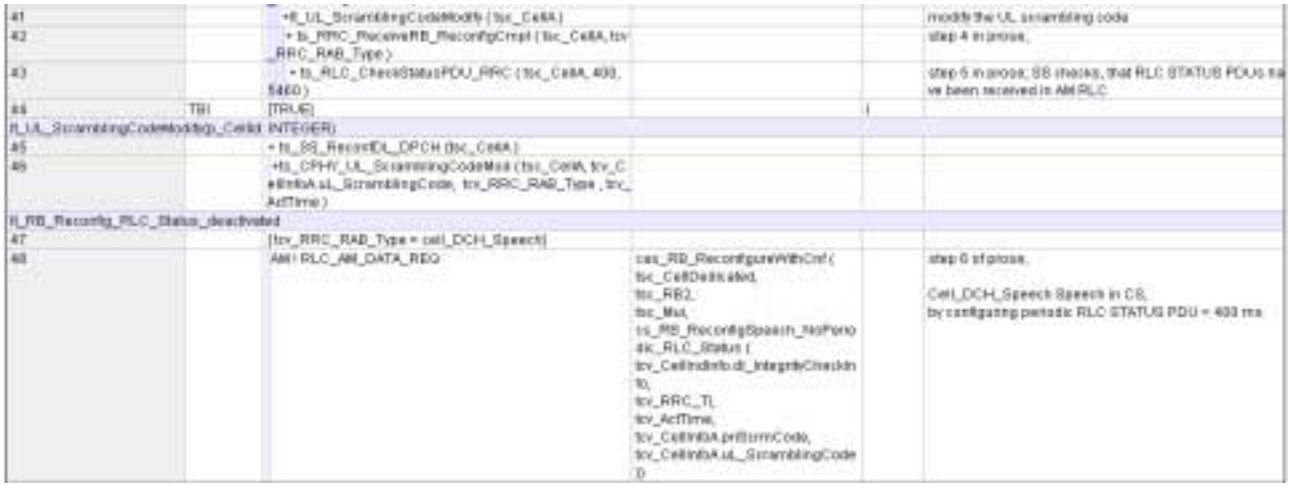


4.9 cbs_108_RB_ReconfigSpeech (WA#RRC4023)

Constraint name	cbs_108_RB_ReconfigSpeech
Reason for change	After Radio Bearer Reconfiguration the Identity Request message is not received by the mobile, this is due to wrong secondary scrambling code specified in the Radio Bearer Reconfiguration message. The scrambling code must be the same as the previous radio bearer setup message.
Summary of change	Changed the following in cbs_108_RB_ReconfigSpeech from c_DL_InformationPerRL(……..tsc_DL_DPCH_ScrC_2) to c_DL_InformationPerRL(…...tsc_DL_DPCH1_2ndScrC).
Source of change	new change
Label	WA#RRC4023
ETSI comment	Rejected This change is not needed, because it was corrected differently as in Anritsu CR pls refer to our answer to document T1-030902 (already changed in delivery wk_30) (it was agreed to use 2nd ScrCode=2 for all successful 8.2.2. test cases.
R&S conclusion	OK, V330a implementation is different, but works fine for us

4.10 Test body, line 45 (WA#RRC4024)

Test step name	Test body, line 45
Reason for change	Correction WA#RRC4023 affects test case 8_2_2_1. The variable tcv_CellInfoA.dl_DPCH_2ndScrCode (lt_UL_ScramblingCodeModify) is assigned with a different scrambling code. This should not be changed as the test case should only change UL Scrambling Code and RLC parameters.
Summary of change	Removed the following from tc_8_2_2_1 line 45 (tcv_CellInfoA.dl_DPCH_2ndScrCode := tsc_DL_DPCH_ScrC_2)
Source of change	new change
Label	WA#RRC4024
ETSI comment	Rejected
R&S conclusion	OK, different implementation in V330a as suggested but basically same functionality



4.11 RB reconfiguration errors (WA#RRC4032)

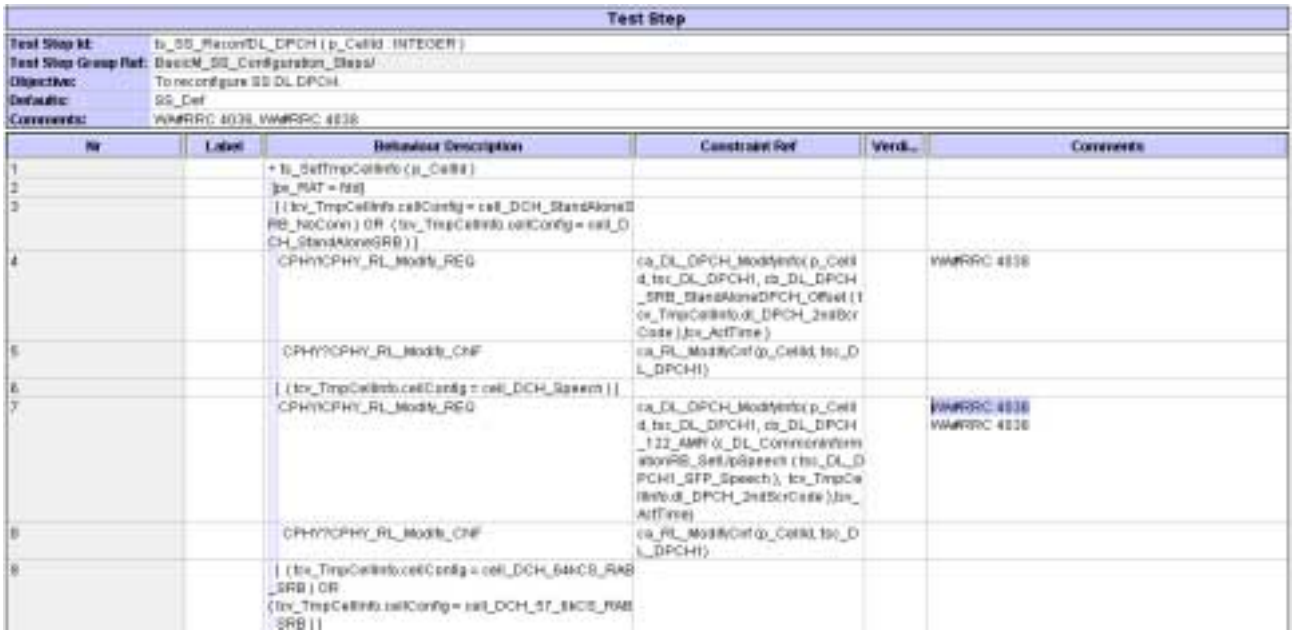
Constraint name	cbs_108_RB_ReconfigSpeech and cs_RB_ReconfigSpeech_NoPeriodic _RLC_Status
Reason for change	The radio bearer reconfiguration message in 8_2_2_1 message is for speech configuration. The message had wrong ul-channel requirement and dl-common information, due to this there were no radio bearer reconfiguration complete
Summary of change	Changed the following in cbs_108_RB_ReconfigSpeech and cs_RB_ReconfigSpeech_NoPeriodic_RLC_Status **from** ul_ChannelRequirement ul_DPCH_Info : c_UL_DPCH_13_6_StandAlone (p_UL_ScramblingCode), **to** ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_Speech, pl0_84, p_UL_ScramblingCode). Changed the following in cbs_108_RB_ReconfigSpeech **from** dl_CommonInformation c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_Speech), **to** c_DL_CommonInformationRB_SetUpSpeech (tsc_DL_DPCH1_SFP_Speech)
Source of change	new change
Label	WA#RRC4032
ETSI comment	Accepted
R&S conclusion	OK

see TTCN code snippets for correction WA#RRC3106 and WA#RRC4023

4.12 ts_SS_ReconfDL_DPCH (WA#RRC4036)

Test step name	ts_SS_ReconfDL_DPCH
Reason for change	The DL-DPCH was not configured correctly in 8_2_2_1 after sending the Radio bearer reconfiguration message.

Summary of change	Changed the following in ts_SS_ReconfDL_DPCH **from** DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_Speech) **to** c_DL_CommonInformationRB_SetUpSpeech (tsc_DL_DPCH1_SFP_Speech)
Source of change	new change
Label	WA#RRC4036
ETSI comment	Rejected
R&S conclusion	OK



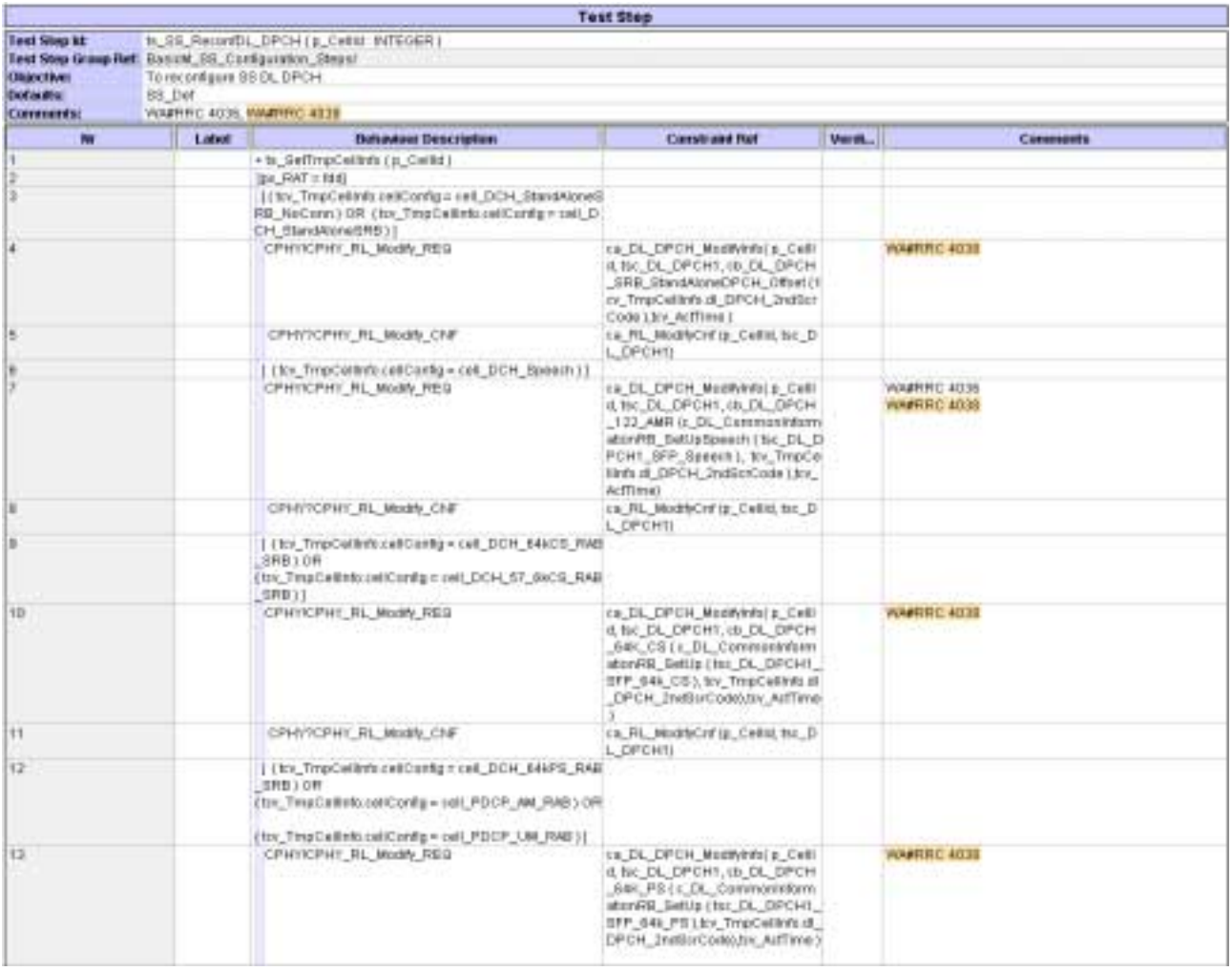
Test Step

Test Step Id:	ts_SS_ReconfDL_DPCH (p_CellId: INTEGER)
Test Step Group Ref:	BasicM_SS_Configuration_Steps/
Objective:	To reconfigure SS DL DPCH
Defaults:	SS_Def
Comments:	WA#RRC 4038, WA#RRC 4038

Nr	Label	Behaviour Description	Constraint Ref	Verdi...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		[ps_RAT = fdd]			
3		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB)]			
4		CPHY/CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo(p_CellId, tsc_DL_DPCH1, cs_DL_DPCH_SRB_StandAloneDPCH_Offset (tcv_TmpCellInfo.dl_DPCH_2ndScrCode), tcv_ActTime)		WA#RRC 4038
5		CPHY/CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_DL_DPCH1)		
6		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech)]			
7		CPHY/CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo(p_CellId, tsc_DL_DPCH1, cs_DL_DPCH_12_2_AMR (c_DL_CommonInformationRB_SetUpSpeech (tsc_DL_DPCH1_SFP_Speech), tcv_TmpCellInfo.dl_DPCH_2ndScrCode),tcv_ActTime)		WA#RRC 4038 WA#RRC 4038
8		CPHY/CPHY_RL_Modify_CNF	ca_RL_ModifyCnf(p_CellId, tsc_DL_DPCH1)		
9		[(tcv_TmpCellInfo.cellConfig = cell_DCH_64KCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6KCS_RAB_SRB)]			

4.13 ts_SS_ReconfDL_DPCH (WA#RRC4038)

Test step name	
Reason for change	The Activation time is passed in the Radio Bearer Reconfiguration message and also passed in the UL configuration, but is not passed in the DL configuration.
Summary of change	Changed the following in ts_SS_ReconfDL_DPCH in line 4,7,10,13 **from** ca_DL_DPCH_ModifyInfoActNow **to** ca_DL_DPCH_ModifyInfo
Source of change	new change
Label	WA#RRC4038
ETSI comment	Accepted
R&S conclusion	OK in V330a



Test Step

Test Step Id:	ts_SS_RecordDL_DPCH (p_CellId: INTEGER)
Test Step Group Ref:	Basic/M_SS_Configuration_Steps/
Objective:	To reconfigure SS DL DPCH
Defaults:	SS_Def
Comments:	WA#RRC 4039, WA#RRC 4038

Nr	Label	Behaviour Description	Constraint Ref	Verdi...	Comments
1		+ ts_GetTmpCellInfo (p_CellId)			
2		[pi_RAT = fdd]			
3		[(tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB_NoConn) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_StandAloneSRB)]			
4		CPHY?CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_SRB_StandAloneDPCH_Offset (tcv_TmpCellInfo.dl_DPCH_2ndScrCode), tcv_ActTime)		WA#RRC 4038
5		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_DL_DPCH1)		
6		[(tcv_TmpCellInfo.cellConfig = cell_DCH_Speech)]			
7		CPHY?CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_122_AMR (c_DL_CommonInformationRB_SetUpSpeech (tsc_DL_DPCH1_SFP_Speech), tcv_TmpCellInfo.dl_DPCH_2ndScrCode), tcv_ActTime)		WA#RRC 4038 WA#RRC 4038
8		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_DL_DPCH1)		
9		[(tcv_TmpCellInfo.cellConfig = cell_DCH_64kCS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_DCH_57_6kCS_RAB_SRB)]			
10		CPHY?CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_64K_CS (c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_64k_CS), tcv_TmpCellInfo.dl_DPCH_2ndScrCode), tcv_ActTime)		WA#RRC 4038
11		CPHY?CPHY_RL_Modify_CNF	ca_RL_ModifyCnf (p_CellId, tsc_DL_DPCH1)		
12		[(tcv_TmpCellInfo.cellConfig = cell_DCH_64kPS_RAB_SRB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_AM_RAB) OR (tcv_TmpCellInfo.cellConfig = cell_PDCP_UM_RAB)]			
13		CPHY?CPHY_RL_Modify_REQ	ca_DL_DPCH_ModifyInfo (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_64K_PS (c_DL_CommonInformationRB_SetUp (tsc_DL_DPCH1_SFP_64k_PS), tcv_TmpCellInfo.dl_DPCH_2ndScrCode), tcv_ActTime)		WA#RRC 4038

4.14 ts_CalculateActTime (WA#RRC4039)

Test step name	Test body, line 12
Reason for change	In 8_2_2_1 the second Radio Bearer Reconfiguration uses the wrong activation time. The activation time must be calculated just before sending the Radio Bearer Reconfiguration message.
Summary of change	Added + ts_CalculateActTime (tsc_CellA) in tc_8_2_2_1 line 12
Source of change	new change
Label	WA#RRC4039
ETSI comment	Accepted
R&S conclusion	OK in V330a

Test Case

Test Case Id:	tc_8_3_2_1
Test Group Reference:	RRC/RRC_RB_Reconfig/
Purpose:	To confirm that the UE reconfigures the radio bearers according to a RADIO BEARER RECONFIGURATION message, which indicates a change of UL scrambling code and ch anges of RLC parameters.
Configuration:	
Defaults:	RRC_Def1
Comments:	VAriRRC:4039 + VAriRRC:4024

Nr	Label	Behaviour Description	Constraint Ref	Verdi...	Comments
1		START t_Guard			
2		[pc_RAT=fdd]			FDD specific behaviour
3		+tb_RRC_InitVariables (cell_DCH)			
4		+pr_GotoStateR_9_Or6_10_MO (tsc_CellA)			
5		+tl_LocalTest			
6		+ po_ConnectionAndSB_Rels			Postamble : To release the RRC connection and all the SB configuration
7	ERR1	[pc_RAT=tdd]		I	TDD specific behaviour
8	ERR2	[TRUE]		I	
tl_LocalTest					
9	TSS	(tcv_TestBody:=TRUE)			
10		+ ts_CalculateActTime (tsc_CellA)			
11		+tl_RB_Reconfig_RLC_Status_activated			step 3, step4 and step 5 in prose; different UL scramblin g code
12		+ ts_CalculateActTime (tsc_CellA)			VAriRRC:4039
13		+tl_RB_Reconfig_RLC_Status_deactivated			step 6, step 7 and step 9 in prose; different UL scrambl ing code
14		+ ts_C3_CheckCellDCH (tsc_CellA)			step 8 Check cell_DCH state
15	TSE	(tcv_TestBody:=FALSE)		(P)	
tl_RB_Reconfig_RLC_Status_activated					
16		[tcv_RRC_RAB_Type = cell_DCH_Speech]			
17		AM !RLC_AM_DATA_REQ	cas_RB_ReconfigureWithCnf (tsc_CellDedicated, tsc_RB3, tsc_Mid, cas_RB_ReconfigSpeechCS_RST _400_RLC_Status400ms (tcv_CellIndInfo.d_IntegrityCheckIn fo, tcv_RRC_Ti, tcv_ActTime, OMIT, tcv_CellInfoAcpnScrmCode, tcv_CellInfoAul_ScramblingCode + 1))		step 3 of prose; Cell_DCH_Speech Speech in CS

5 Branches executed in test case 8.2.2.1

The CS and PS branches of the test case implementation were executed with Integrity activated and Ciphering disabled.

6 Execution Log Files

6.1 Nokia 3G UE 6650

The Nokia 3G UE 6650 passed this test case in CS and PS mode on Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_2_1-Logs\CS\Index.html**
- **Execution log files 8_2_2_1-Logs\PS\Index.html**
  This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 8_2_2_1-CS-pics-pixit.txt**
- **PICS/PIXIT file 8_2_2_1-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for CS/PS testing.

7 References

[1] **T1-031001**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

3GPP TSG-T1 Meeting #21
Budapest, Hungary, 3rd – 7th November 2003

Tdoc ⌘T1-031281

CR-Form-v7

CHANGE REQUEST

⌘ **TS 34.123-3 CR 031281** ⌘**rev** **-** ⌘ Current version: **3.2.1** ⌘

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

Title:	⌘	Addition of RRC test case 8.2.2.11 to RRC ATS V3.2.1
Source:	⌘	T1
Work item code:	⌘	N/A
Date:	⌘	15/09/03
Category:	⌘	**F**
Release:	⌘	R99

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:	⌘	To add verified GCF package 2 RRC test case 8.2.2.11 to the approved RRC ATS V3.2.1
Summary of change:	⌘	This document lists all changes applied to test case 8.2.2.11 required for approval. This CR is a revision of T1-031008 and includes the ETSI/MCC160 feedback and the R&S conclusion on their comments and corrections made in the ETSI/MCC160 TTCN V330a implementation.
Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	N/A

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

Other comments:	⌘	

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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.

3GPP TSG- T1 Meeting #20 **T1-031281**
Munich, Germany, 28 July – 01 August 2003

Title: **Changes to test case 8.2.2.11 required for approval**

Source: T1

Agenda Item: TTCN Issues

Document for: Approval

Contact: Thomas Moosburger
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1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.2.11 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

3 Verification Test Summary

Test Case:	TC_8_2_2_11
Test Group:	RRC/RRC_RB_Reconfig/
ATS Version:	iWD-TVB2002-03_D03wk24 + essential modifications
System Simulator used:	Rohde & Schwarz 3G system simulator CRTU-W
UE used:	Nokia 3G UE 6650
Verification Status:	PASS

4 Corrections required for test case 8.2.2.11

4.1 Introduction

This section describes the changes required to make test case 8.2.2.11 run correctly with a 3G UE. All modifications are marked with label "**WA#BasicM<number>**" for changes to the BasicM TTCN module and with label "**WA#RRC<number>**" for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk24.mp which is part of the iWD-TVB2002-03_D03wk24 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 and 2 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) which are already fixed in the V3.21 release and are therefore not documented in this CR:

WA#BasicM4011, WA#BasicM4012, WA#BasicM4017, WA#BasicM4020, WA#RRC3059, WA#RRC3079, WA#RRC3080, WA#RRC3081, WA#RRC4022, WA#RRC4031, WA#RRC3051, WA#RRC3068

For each correction the ETSI/MCC160 feedback and final R&S conclusion on the TTCN implementation is documented. These changes were implemented by MCC160 in their V330a release and the test case passed in regression-tests.

4.2 cr_ActPDP_ContextReqMO (WA#BasicM4014)

Constraint name	cr_ActPDP_ContextReqMO
Reason for change	see Anritsu CR - T1S.030419 Sec. 2.2.5
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoDCH for constraint definition
Source of change	new change
Label	WA#BasicM4014
ETSI comment	Accepted Shall be changed also in cr_ActPDP_ContextReqMO_Any, if possible.
R&S conclusion	V330a implementation OK

4.3 cr_ActPDP_ContextReqFACH_MO (WA#RRC3050)

Constraint name	cr_ActPDP_ContextReqFACH_MO
Reason for change	Anritsu CR - T1S.030427 Sec. 2.2.4
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoFACH for constraint definition
Source of change	new change
Label	WA#RRC3050
ETSI comment	Agreed in principle This change is not applicable in principle for this test case, since cell_DCH is choosen as in preamble ts_RRC_InitVariables (cell_DCH). But to be inline with same structure used for DCH (cr_ActPDP_ContextReqMO), ETSI agrees in principle this shall be changed also in cr_ActPDP_ContextReqRspMO, if possible. In the latter, also other params should be checked, not simply be set to '*'.
R&S conclusion	V330a implementation OK

4.4 ts_RRC_SendRB_SetUpFACH_PS (WA#RRC3055)

Test step name	ts_RRC_SendRB_SetUpFACH_PS
Reason for change	In test step ts_RRC_SendRB_SetUpFACH_PS a delay is set to 300 ms before the RAB Setup Complete is expected. However, the RAB Setup Complete is received in less than 250 ms.
Summary of change	Remove ts_RRC_Delay
Source of change	new change
Label	WA#RRC3055

ETSI comment	Accepted and will be done for v330.
R&S conclusion	OK in V330a

4.5 ts_CRLC_UL_CipherCfg_RAB (WA#RRC3073)

Test step name	ts_CRLC_UL_CipherCfg_RAB
Reason for change	see Anritsu CR T1S.030409, 2.2.12, the ciphering activation request and confirm steps are only needed when ciphering is enabled
Summary of change	see CR
Source of change	see CR
Label	WA#RRC3073
ETSI comment	Rejected. This change have been rised several times and it was always clarified, that the value of RB_ActivationTimeInfoList is needed for a SS to calculate the value independent of ciphering activated or not.
R&S conclusion	V330a implementation OK

4.6 cbs_108_RB_ReconfigFACH_ToDCH (WA#RRC4047)

Constraint name	cbs_108_RB_ReconfigFACH_ToDCH
Reason for change	The test case 8_2_2_10 fails in the radio bearer reconfiguration procedure. SS does not receive the radio bearer reconfiguration complete.mis match values in the RB Reconfig and local configuration. Mismatch in TFCI exixtence, fixed flexible position, and the secondary scrambling code.
Summary of change	Changed the following **from** c_DL_CommonInformationDCH_DPCH_Offset (tsc_DL_DPCH1_SFP_64k_PS) **to** c_DL_CommonInformationRB_SetUpDPCH_Offset (tsc_DL_DPCH1_SFP_64k_PS). Changed the following **from** c_DL_InfoPerRL_DPCH_Offset (p_PrimaryScramblingCode, tsc_DL_DPCH_ScrC_2, tsc_DL_DPCH1_ChC_64k_PS) **to** c_DL_InformationPerRL (p_PrimaryScramblingCode, tsc_DL_DPCH1_ChC_64k_PS,

	tsc_DL_DPCH1_2ndScrC)
Source of change	new change
Label	WA#RRC4047
ETSI comment	Rejected c_DL_CommonInformationDCH_DPCH_Offset is identical with c_DL_CommonInformationRB_SetUpDPCH_Offset, so no need to change. One of the two should be canceled! Moreover, c_DL_InfoPerRL_DPCH_Offset is equal to c_DL_InformationPerRL, just scramblingCodeChange is set to 'noCodeChange' instead of OMIT, which is correct. So no reason for change. Concerning the parameters, tsc_DL_DPCH_ScrC_2 (=2) is asked to be replaced by tsc_DL_DPCH1_2ndScrC(=1), which is incorrect according to 34.108 cl. 9.1.1 case A4.
R&S conclusion	Accepted according to the cl 9.1.1. but the variable tcv_TmpCellInfo.dl_DPCH_2ndScrCode is not assigned to the value 2. So this value must be assigned before the local configuration OK in V330a implementation

ASN.1 PDU Constraint Declaration

Constraint Name:	cbs_108_RB_ReconfigFACH_ToDCH (p_IntegrityInfo : IntegrityCheckInfo ; p_RRC_TI: RRC_TransactionIdentifier; p_FreqInfo: FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode)
Groups:	
PDU Name:	DL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	Defined in TS 34.123-1 annex A condition A.4 (WA#RRC 4047

Constraint Value

```
{
 integrityCheckInfo p_IntegrityInfo ,
 message radioBearerReconfiguration : r3 : {
  radioBearerReconfiguration_r3{
   rrc_TransactionIdentifier p_RRC_TI,
   integrityProtectionModeInfo OMIT,
   ciphheringModeInfo OMIT,
   activationTime OMIT,
   new_U_RNTI OMIT,
   new_C_RNTI OMIT,
   rrc_StateIndicator cell_DCH,
   utran_DRX_CycleLengthCoeff OMIT,
   cn_InformationInfo OMIT,
   ura_Identity OMIT,
   rab_InformationReconfigList OMIT,
   rb_InformationReconfigList c_RB_InfoReconfigList20,
   rb_InformationAffectedList OMIT,
   ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k,
   ul_deletedTransChInfoList OMIT,
   ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListFACH_ToDCH,
   modeSpecificTransChInfo fdd{
    rach_SetID OMIT,
    addReconfTransChDRAC_Info OMIT
   },
   dl_CommonTransChInfo c_DL_CommonTransChInfoDCH ( c_TFCS_Comp8_1_2_3_4_5_6_7_8_9_Rb ),
   dl_DeletedTransChInfoList OMIT,
   dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListFACH_ToDCH,
   frequencyInfo p_FreqInfo,
   maxAllowedUL_TX_Power tsc_MaxAllowPwr,
   ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_Info ( tsc_UL_DPDCH_SF_64k_PS, pID_96 , p_UL_ScramblingCode ),
   modeSpecificPhyChInfo fdd{
    dl_PDSCH_Information OMIT
   },
   dl_CommonInformation c_DL_CommonInformationRB_SetUpDPCH_Offset ( tsc_DL_DPCH1_SPF_64k_PS ),
   dl_InformationPerRL_List c_DL_InformationPerRL ( p_PrimaryScramblingCode, tsc_DL_DPCH1_CNC_64k_PS, tsc_DL_DPCH1_2ndScrC )
  },
  criticalExtensions {
   radioBearerReconfiguration_v3a0ext { new_DSCH_RNTI OMIT },
   nonCriticalExtensions OMIT
  }
 }
}
```

Detailed Comment:

4.7 Test body (WA#RRC4048)

Test step name	Test body
Reason for change	The test case 8_2_2_11 fails in the preamble in the PS branch. The test step passes through idle mode and triies to make a CS call. The initialsiation of the variables in the preamble were missing.

Summary of change	Added + ts_RRC_InitVariablesPS (cell_FACH) in tc_8_2_2_11 line 3
Source of change	new change
Label	WA#RRC4048
ETSI comment	Accepted Done already
R&S conclusion	OK in V330a

Test Case	
Test Case Id:	tc_8_2_2_11
Test Group Reference:	RRC/RRC_RB_Reconfig/
Purpose:	To confirm that the UE transmits a RADIO BEARER RECONFIGURATION FAILURE message on the DCCH using AM RLC if the received RADIO BEARER RECONFIGURATION message includes unsupported configuration parameters.
Configuration:	
Defaults:	RRC_Def1
Comments:	This test case added is added from v140. WA#RRC 4048, WA#RRC 4049, WA#RRC 4050, WA#RRC 4051, WA#RRC 4052

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		START t_Guard			
1		[pc_RAT=fdd]			FDD specific behaviour
2		+ ts_RRC_InitVariablesPS (cell_FACH)			WA#RRC 4048
3		+pr_GotoState6_11_MO (tsc_CellA)			Preamble : To establish the PDP Context
4		+lt_LocalTest			
5		+ po_ConnectionAndSS_Rels			Postamble : To release the RRC connection and all the SS configuration
1	ERR1	[pc_RAT=tdd]			TDD specific behaviour
1	ERR2	[TRUE]		I	
lt_LocalTest					
0	TB0	(tcv_TestBody := TRUE)			
1		+ ts_CalculateActTime (tsc_CellA)			
2		AM ! RLC_AM_DATA_REQ	cas_RB_Reconfigure (tsc_CellDedicated, tsc_RB3, cbs_108_RB_ReconfigFACH_ToDCH (tsv_CellInfoInfo.tl_IntegrityCheckInfo, tcv_RRC_TI, c_FreqInfoFail 958, tsv_CellInfoA.pilScrmCode, tsv_CellInfoA.uL_ScramblingCode))		step 1 in prose; WA#RRC 4050 WA#RRC 4051
3	TBP1	AM ? RLC_AM_DATA_IND	car_RB_ReconfFail (tsc_CellDedicated, t0_Identity tsc_RB2, cr_108_RB_ReconfigFail (tcv_RRC_TI, configurationUnsupported : NULL))	(P)	step 2 in prose; WA#RRC 4052
4	TBE	(tcv_TestBody:=FALSE)			

4.8 Test body (WA#RRC4050)

Test step name	Test body
Reason for change	Test case 8.2.2.11 was not included in iWD-TVB2002-03_D03wk24 release by MCC160. The test case was therefore added from the V1.40 ATS. This change was necessary to bring the test case in line with the wk24 release.
Summary of change	Removed parameter tcv_ActTime from (cbs_108_RB_ReconfigFACH_ToDC) line 11 of tc_8_2_2_11
Source of change	new change
Label	WA#RRC4050
ETSI comment	Accepted Done already
R&S conclusion	OK in V330a

Test Case

Test Case Id:	tc_8_2_2_11
Test Group Reference:	RRC/RRC_RB_Reconfig/
Purpose:	To confirm that the UE transmits a RADIO BEARER RECONFIGURATION FAILURE message on the DCCH using AM RLC if the received RADIO BEARER RECONFIGURATION message includes unsupported configuration parameters.
Configuration:	
Defaults:	RRC_Def1
Comments:	This test case added is added from v 140 WA#RRC 4048, WA#RRC 4049, WA#RRC 4050, WA#RRC 4051, WA#RRC 4052.

Ind	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		START t_Guard			
1		[pc_PATcfg0]			FDD specific behaviour
2		+ ts_RRC_InitialisableUPS (cell_FACH)			WA#RRC 4048
3		+pr_GotoState8_11_MO (tsc_CellA)			Preamble : To establish the PDP Context
4		+t_LocalTest			
5		+ po_ConnectionAndSS_Rels			Postamble : To release the RRC connection and all the SS configuration
1	ERR1	[pc_PAT=fdd]			TDD specific behaviour
1	ERR2	[TRUE]		!	
t_LocalTest					
0	TB0	(tcv_TestBody = TRUE;)			
1		+ ts_CalculateActTime (tsc_CellA)			
2		AM! RLC_AM_DATA_REQ	cas_RB_Reconfigure (tsc_CellDedicated, tsc_RB2, cbs_108_RB_ReconfigFACH_ToDCH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, c_FreqInfoFail959, tcv_CellIndInfo.priScrmCode, tcv_CellIndInfo.ul_ScramblingCode))		step 1 in prose; WA#RRC 4050 WA#RRC 4051
3	TBF1	AM ? RLC_AM_DATA_IND	csr_RB_ReconfFail (tsc_CellDedicated, dl_Identity tsc_RB2, cr_108_RB_ReconfigFail (tcv_RRC_TI, configurationUnsupported : NULL))	(F)	step 2 in prose; WA#RRC 4052
4	TBE	(tcv_TestBody=FALSE)			

4.9 Test body (WA#RRC4051)

Test step name	Test body
Reason for change	Test case 8.2.2.11 was not included in iWD-TVB2002-03_D03wk24 release by MCC160. The test case was therefore added from the V1.40 ATS. This change was necessary to bring the test case in line with the wk24 release.
Summary of change	Changed from tcv_CellIndInfo.integrityCheckInfo to tcv_CellIndInfo.dl_IntegrityCheckInfo in (cbs_108_RB_ReconfigFACH_ToDCH) line 11 of tc_8_2_2_11
Source of change	new change
Label	WA#RRC4051
ETSI comment	Accepted Done already
R&S conclusion	OK in V330a

Test Case	
Test Case Id:	tc_8_2_2_11
Test Group Reference:	RRC/RRC_RB_Reconfig/
Purpose:	To confirm that the UE transmits a RADIO BEARER RECONFIGURATION FAILURE message on the DCCH using AM RLC if the received RADIO BEARER RECONFIGURATION message includes unsupported configuration parameters
Configuration:	
Defaults:	RRC_Def1
Comments:	This test case added in added from v 140. WA#RRC 4048, WA#RRC 4049, WA#RRC 4050, WA#RRC 4051, WA#RRC 4052

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		START T1_Guard			
1		[px_RAT=fdd]			FDD specific behaviour
2		+ts_RRC_InitVariablesPS (cell_FACH)			WA#RRC 4048
3		+pr_OutsState6_11_MO (tsc_CellA)			Preamble : To establish the PDP Context
4		+lt_LocalTest			
5		+po_ConnectionAndSS_Rels			Postamble : To release the RRC connection and all the SS configuration
1	ERR1	[px_RAT=tdd]			TDD specific behaviour
1	ERR2	[TRUE]		I	
lt_LocalTest					
0	TBS	(tcv_TestBody := TRUE)			
1		+ts_CalculateActTime (tsc_CellA)			
2		AM ! RLC_AM_DATA_REQ	cas_RB_Reconfigure (tsc_CellDedicated, tsc_RB2, cbs_108_RB_ReconfigFACH_ToDCH (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, c_FreqInfoFail850, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))		step 1 in prose; WA#RRC 4050 WA#RRC 4051
3	TBP1	AM ? RLC_AM_DATA_IND	car_RB_ReconfFail (tsc_CellDedicated, rB_Identity tsc_RB2, cr_108_RB_ReconfigFail (tcv_RRC_TI, configurationUnsupported : NULL))	(P)	step 2 in prose; WA#RRC 4052
4	TBE	(tcv_TestBody:=FALSE)			

4.10 Test body (WA#RRC4052)

Test step name	Test body
Reason for change	Test case 8.2.2.11 was not included in iWD-TVB2002-03_D03wk24 release by MCC160. The test case was therefore added from the V1.40 ATS. This change was necessary to bring the test case in line with the wk24 release.
Summary of change	Removed parameter tcv_CellIndInfo.dl_integrityCheckInfo from (cr_108_RB_ReconfigFail) line 12 of tc_8_2_2_11
Source of change	new change
Label	WA#RRC4052
ETSI comment	Accepted Done already. What about Cell dedicated-CellA?
R&S conclusion	The tsc_CellDedicated can be used. OK in V330a implementation

Test Case	
Test Case Id:	tc_8_2_2_11
Test Group Reference:	RRC/RRC_RB_Reconfig/
Purpose:	To confirm that the UE transmits a RADIO BEARER RECONFIGURATION FAILURE message on the DCCH using AM RLC if the received RADIO BEARER RECONFIGURATION message includes unsupported configuration parameters.
Configuration:	
Defaults:	RRC_Def1
Comments:	This test case added is added from r.14.0. WA#RRC 4048, WA#RRC 4049, WA#RRC 4050, WA#RRC 4051, WA#RRC 4052

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		START t_Guard			
1		[pc_RAT=fdd]			FDD specific behaviour
2		+ ts_RRC_InitVariablesPS (cell_FACH)			WA#RRC 4048
3		+pr_GotoState8_11_MO (tsc_CellA)			Preamble : To establish the PDP Context
4		+lt_LocalTest			
5		+ po_ConnectionAndSS_Rels			Postamble : To release the RRC connection and all the SS configuration
1	ERR1	[pc_RAT=tdd]			TDD specific behaviour
1	ERR2	[TRUE]		I	
lt_LocalTest					
0	TB0	(tcv_TestBody := TRUE)			
1		+ ts_CalculateActTime (tsc_CellA)			
2		AM ! RLC_AM_DATA_REQ	cas_RB_Reconfigure (tsc_CellDedicated, tsc_RB3, cbs_109_RB_ReconfigFACH_ToDCH (tcv_CellInitInfo.it_IntegrityCheckInfo, tcv_RRC_Ti, c_FreqInfoFail950, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))		step 1 in prose; WA#RRC 4050 WA#RRC 4051
3	TBP1	AM ? RLC_AM_DATA_IND	car_RB_ReconfFail (tsc_CellDedicated, rB_Identity tsc_RB2, cr_108_RB_ReconfigFail (tcv_RRC_Ti, configurationUnsupported : NULL))	(P)	step 2 in prose; WA#RRC 4052
4	TB6	(tcv_TestBody:=FALSE)			

5 Branches executed in test case 8.2.2.11

The test case was executed in PS mode with Integrity activated and Ciphering disabled.

6 Execution Log Files

6.1 Nokia 3G UE 6650

The Nokia 3G UE 6650 passed this test case on the Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_2_11-Logs\PS\Index.html**
  This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 8_2_2_11-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for CS/PS testing.

7 References

[1] **T1-031009**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

3GPP TSG-T1 Meeting #21
Budapest, Hungary, 3rd – 7th November 2003

Tdoc ⌘T1-031282

CR-Form-v7

CHANGE REQUEST

⌘ **TS 34.123-3 CR 031282** ⌘**rev** **-** ⌘ Current version: **3.2.1** ⌘

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

Title:	⌘	Addition of RRC test case 8.2.6.1 to RRC ATS V3.2.1
Source:	⌘	T1
Work item code:	⌘	N/A
Date:	⌘	15/09/03
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Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	N/A			
Other specs affected:	⌘	**Y**	**N**		
			X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

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3GPP TSG- T1 Meeting #20 **T1-031282**
Munich, Germany, 28 July – 01 August 2003

Title: **Changes to test case 8.2.6.1 required for approval**

Source: T1

Agenda Item: TTCN Issues

Document for: Approval

Contact: Thomas Moosburger
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1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.6.1 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

3 Verification Test Summary

Test Case:	TC_8_2_6_1
Test Group:	RRC/RRC_PhyCh_Reconf/
ATS Version:	iWD-TVB2002-03_D03wk24 + essential modifications
System Simulator used:	Rohde & Schwarz 3G system simulator CRTU-W
UE used:	Nokia 3G UE 6650
Verification Status:	PASS

4 Corrections required for test case 8.2.6.1

4.1 Introduction

This section describes the changes required to make test case 8.2.6.1 run correctly with a 3G UE. All modifications are marked with label "**WA#BasicM<number>**" for changes to the BasicM TTCN module and with label "**WA#RRC<number>**" for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk24.mp which is part of the iWD-TVB2002-03_D03wk24 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 and 2 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) which are already fixed in the V3.21 release and are therefore not documented in this CR:

WA#BasicM4011, WA#BasicM4012, WA#BasicM4017, WA#BasicM4020, WA#RRC3059, WA#RRC3079, WA#RRC3080, WA#RRC3081, WA#RRC4022, WA#RRC4031, WA#RRC3051, WA#RRC3068

For each correction the ETSI/MCC160 feedback and final R&S conclusion on the TTCN implementation is documented. These changes were implemented by MCC160 in their V330a release and the test case passed in regression-tests.

4.2 cr_ActPDP_ContextReqMO (WA#BasicM4014)

Constraint name	cr_ActPDP_ContextReqMO
Reason for change	see Anritsu CR - T1S.030419 Sec. 2.2.5
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoDCH for constraint definition
Source of change	new change
Label	WA#BasicM4014
ETSI comment	Accepted Shall be changed also in cr_ActPDP_ContextReqMO_Any, if possible.
R&S conclusion	V330a implementation OK

4.3 cr_ActPDP_ContextReqFACH_MO (WA#RRC3050)

Constraint name	cr_ActPDP_ContextReqFACH_MO
Reason for change	Anritsu CR - T1S.030427 Sec. 2.2.4
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoFACH for constraint definition
Source of change	new change
Label	WA#RRC3050
ETSI comment	Agreed in principle This change is not applicable in principle for this test case, since cell_DCH is choosen as in preamble ts_RRC_InitVariables (cell_DCH). But to be inline with same structure used for DCH (cr_ActPDP_ContextReqMO), ETSI agrees in principle this shall be changed also in cr_ActPDP_ContextReqRspMO, if possible. In the latter, also other params should be checked, not simply be set to '*'.
R&S conclusion	V330a implementation OK

4.4 ts_RRC_SendRB_SetUpFACH_PS (WA#RRC3055)

Test step name	ts_RRC_SendRB_SetUpFACH_PS
Reason for change	In test step ts_RRC_SendRB_SetUpFACH_PS a delay is set to 300 ms before the RAB Setup Complete is expected. However, the RAB Setup Complete is received in less than 250 ms.
Summary of change	Remove ts_RRC_Delay
Source of change	new change
Label	WA#RRC3055

ETSI comment Accepted and will be done for v330.

R&S conclusion OK in V330a

Test Step					
Test Step Id:	ts_RRC_SendRB_SetUpFACH_PS(p_CellId: INTEGER; p_RAB_Id: BITSTRING; p_ActTime: ActivationTime)				
Test Step Group Ref:	BasicM_RRC_Steps/RRC_RAB_Steps				
Objective:	To setup a RADIO BEARER cell_FACH_PS and to reconfigure the SS accordingly				
Defaults:	RRC_Def1				
Comments:	See TS 34.109 cl. 6.10.2.4.3.2.1.2 for downlink and 6.10.2.4.4.1.1.1 for uplink No channel reconfiguration is needed, because the complete configuration is setup in ts_GS_CreateCellFACH WA#RRC3055				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		AM ! RLC_AM_DATA_REQ	cas_RB_SetUpAM (tsc_CellDedicated, tsc_RB2, (tbc_108_RB_SetUpFACH_PS (tcv_CellIdentity id_IntegrityCheckInfo, tcv_RRC_TI, tcv_TmpCellInfo.frequencyInfo, p_RAB_Id, tcv_TmpCellInfo.primScrCode, tcv_TmpCellInfo.cRNTI)		
3	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cas_FACH_PS)			

4.5 ts_CRLC_UL_CipherCfg_RAB (WA#RRC3073)

Test step name	ts_CRLC_UL_CipherCfg_RAB
Reason for change	see Anritsu CR T1S.030409, 2.2.12, the ciphering activation request and confirm steps are only needed when ciphering is enabled
Summary of change	see CR
Source of change	see CR
Label	WA#RRC3073
ETSI comment	Rejected. This change have been rised several times and it was always clarified, that the value of RB_ActivationTimeInfoList is needed for a SS to calculate the value independent of ciphering activated or not.
R&S conclusion	V330a implementation OK

Test Step					
Test Step Id:	ts_CRLC_UL_CipherCfg_RAB (p_CN_Domain: CN_DomainIdentity; p_RB_ActivationTimeInfoList: RB_ActivationTimeInfoList)				
Test Step Group Ref:	BasicM_Security_Steps/				
Objective:	Configure ciphering for RLC layer				
Defaults:	SS_Def				
Comments:	CRLC is configured with cellId=1 (tsc_CellDedicated), WA#RRC3073				
Ind	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		[p_CipheringOnOff]			
1		CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_UL_CipherActReq (tsc_CellDedicated , p_CN_Domain, p_RB_ActivationTimeInfoList)		configure ciphering for signaling radio bearers
2		CRLC ? CRLC_Ciphering_Activate_CNF	ca_CRLC_CipherActCnf(tsc_CellDedicated)		
0		[NOT (p_CipheringOnOff)]			

5 Branches executed in test case 8.2.6.1

The test case was executed in CS and PS mode with Integrity activated and Ciphering disabled.

6 Execution Log Files

6.1 Nokia 3G UE 6650

The Nokia 3G UE 6650 passed this test case on the Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_6_1-Logs\CS\Index.html**
- **Execution log files 8_2_6_1-Logs\PS\Index.html**
  Execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 8_2_6_1-CS-pics-pixit.txt**
- **PICS/PIXIT file 8_2_6_1-PS-pics-pixit.txt**
  Text files containing all PICS/PIXIT parameters used for CS/PS testing.

7 References

[1] **T1-031015**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

3GPP TSG-T1 Meeting #21
Budapest, Hungary, 3rd – 7th November 2003

Tdoc ⌘T1-031283

CR-Form-v7

CHANGE REQUEST

⌘ **TS 34.123-3 CR 031283** ⌘**rev** **-** ⌘ Current version: **3.2.1** ⌘

*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 ☐ Core Network ☐

Title:	⌘	Addition of RRC test case 8.2.2.17 to RRC ATS V3.2.1
Source:	⌘	T1
Work item code:	⌘	N/A
Date:	⌘	15/09/03
Category:	⌘	**F**
Release:	⌘	R99

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:	⌘	To add verified GCF package 2 RRC test case 8.2.2.17 to the approved RRC ATS V3.2.1
Summary of change:	⌘	This document lists all changes applied to test case 8.2.2.17 required for approval. This CR is a revision of T1-031010 and includes the ETSI/MCC160 feedback and the R&S conclusion on their comments and corrections made in the ETSI/MCC160 TTCN V330a implementation.
Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	N/A

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

3GPP TSG- T1 Meeting #20 **T1-031283**
Munich, Germany, 28 July – 01 August 2003

Title: **Changes to test case 8.2.2.17 required for approval**

Source: Rohde & Schwarz

Agenda Item: T1

Document for: Approval

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1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.2.17 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

3 Verification Test Summary

Test Case:	TC_8_2_2_17
Test Group:	RRC/RRC_RB_Reconfig/
ATS Version:	iWD-TVB2002-03_D03wk24 + essential modifications
System Simulator used:	Rohde & Schwarz 3G system simulator CRTU-W
UE used:	Nokia 3G UE 6650
Verification Status:	PASS

4 Corrections required for test case 8.2.2.17

4.1 Introduction

This section describes the changes required to make test case 8.2.2.17 run correctly with a 3G UE. All modifications are marked with label "**WA#BasicM<number>**" for changes to the BasicM TTCN module and with label "**WA#RRC<number>**" for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk24.mp which is part of the iWD-TVB2002-03_D03wk24 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 and 2 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) which are already fixed in the V3.21 release and are therefore not documented in this CR:

WA#BasicM4011, WA#BasicM4012, WA#BasicM4017, WA#BasicM4020, WA#RRC3059, WA#RRC3079, WA#RRC3080, WA#RRC3081, WA#RRC4022, WA#RRC4031, WA#RRC3051, WA#RRC3068

For each correction the ETSI/MCC160 feedback and final R&S conclusion on the TTCN implementation is documented. These changes were implemented by MCC160 in their V330a release and the test case passed in regression-tests.

4.2 cr_ActPDP_ContextReqMO (WA#BasicM4014)

Constraint name	cr_ActPDP_ContextReqMO
Reason for change	see Anritsu CR - T1S.030419 Sec. 2.2.5
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoDCH for constraint definition
Source of change	new change
Label	WA#BasicM4014
ETSI comment	Accepted Shall be changed also in cr_ActPDP_ContextReqMO_Any, if possible.
R&S conclusion	V330a implementation OK

4.3 cr_ActPDP_ContextReqFACH_MO (WA#RRC3050)

Constraint name	cr_ActPDP_ContextReqFACH_MO
Reason for change	Anritsu CR - T1S.030427 Sec. 2.2.4
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoFACH for constraint definition
Source of change	new change
Label	WA#RRC3050
ETSI comment	Agreed in principle This change is not applicable in principle for this test case, since cell_DCH is choosen as in preamble ts_RRC_InitVariables (cell_DCH). But to be inline with same structure used for DCH (cr_ActPDP_ContextReqMO), ETSI agrees in principle this shall be changed also in cr_ActPDP_ContextReqRspMO, if possible. In the latter, also other params should be checked, not simply be set to '*'.
R&S conclusion	V330a implementation OK

4.4 ts_RRC_SendRB_SetUpFACH_PS (WA#RRC3055)

Test step name	ts_RRC_SendRB_SetUpFACH_PS
Reason for change	In test step ts_RRC_SendRB_SetUpFACH_PS a delay is set to 300 ms before the RAB Setup Complete is expected. However, the RAB Setup Complete is received in less than 250 ms.
Summary of change	Remove ts_RRC_Delay
Source of change	new change
Label	WA#RRC3055

ETSI comment	Accepted and will be done for v330.
R&S conclusion	OK in V330a

4.5 ts_CRLC_UL_CipherCfg_RAB (WA#RRC3073)

Test step name	ts_CRLC_UL_CipherCfg_RAB
Reason for change	see Anritsu CR T1S.030409, 2.2.12, the ciphering activation request and confirm steps are only needed when ciphering is enabled
Summary of change	see CR
Source of change	see CR
Label	WA#RRC3073
ETSI comment	Rejected. This change have been rised several times and it was always clarified, that the value of RB_ActivationTimeInfoList is needed for a SS to calculate the value independent of ciphering activated or not.
R&S conclusion	V330a implementation OK

4.6 ts_SS_ReconfRLC_PollingInfo (WA#RRC4040)

Test step name	ts_SS_ReconfRLC_PollingInfo
Reason for change	The test step ts_SS_ReconfRLC_PollingInfo is generic for PS and CS. But the test step reconfigures RB 20. When running test cases in CS branch the tester complains about RB 20, which is not configurecd.
Summary of change	Added the following condition in ts_SS_ReconfRLC_PollingInfo in Line 8 [tcv_CN_Domain = ps_domain] to cater for RB20 in Line 11 added [TRUE] the alternatives.
Source of change	new change
Label	WA#RRC4040
ETSI comment	Accepted
R&S conclusion	V330a implementation OK

Test Step

Test Step Id:	ts_SS_RecordRLC_PollingInfo (p_CellId: INTEGER, p_UL_AM_RLC_Mode : UL_AM_RLC_Mode)
Test Step Group Ref:	RRCM_SS_Steps/
Objective:	To reconfigure SRB2, SRB3 and SRB4 regarding the polling information.
Defaults:	SS_Def
Comments:	WA#RRC 4040

Nr	Label	Behaviour Description	Constraint Ref	Verdi...	Comments
1		+ ts_SetPrimCellInfo (p_CellId)			
2		CRLC ! CRLC_Config_REQ	ca_RB_AM_RecordInfoSS_DL (tsc_CellDedicated, tsc_RB2, {ulLogicalChannelIdentity tsc_UL_DCCH2, dlLogicalChannelIdentity tsc_DL_DCCH2}, 128, p_UL_AM_RLC_Mode)		configure radio bearers RB2 (AM + DCCH) and (AM + DCCH)
3		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB2)		
4		CRLC ! CRLC_Config_REQ	ca_RB_AM_RecordInfoSS_DL (tsc_CellDedicated, tsc_RB3, {ulLogicalChannelIdentity tsc_UL_DCCH3, dlLogicalChannelIdentity tsc_DL_DCCH3}, 128, p_UL_AM_RLC_Mode)		configure radio bearers : RB3 (AM + DCCH) and (AM + DCCH)
5		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB3)		
6		CRLC ! CRLC_Config_REQ	ca_RB_AM_RecordInfoSS_DL (tsc_CellDedicated, tsc_RB4, {ulLogicalChannelIdentity tsc_UL_DCCH4, dlLogicalChannelIdentity tsc_DL_DCCH4}, 128, p_UL_AM_RLC_Mode)		configure radio bearers : RB4(AM + DCCH) and (AM + DCCH)
7		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB4)		
8		[tsc_CN_Domain = ps_domain]			WA#RRC 4040
9		CRLC ! CRLC_Config_REQ	ca_RB_AM_RecordInfoSS_DL (tsc_CellDedicated, tsc_RB20, {ulLogicalChannelIdentity tsc_UL_DTCH1, dlLogicalChannelIdentity tsc_DL_DTCH1}, 320, p_UL_AM_RLC_Mode)		configure radio bearers RB20 (AM + DTCH)
10		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB20)		
11		[TRUE]			WA#RRC 4040

4.7 Test body, line 11 (WA#RRC4053)

Constraint name	Test body, line 11
Reason for change	The test case 8_2_2_17 fails in the radio bearer reconfiguration procedure.The SS receives the RB reconfig Complete messaage before the delay timer times out.
Summary of change	Removed + ts_RRC_Delay (tsc_WaitBeforeFACH_Conf) from 8_2_2_17 after Line 11 in tc_8_2_2_17
Source of change	new change
Label	WA#RRC4053
ETSI comment	Accepted
R&S conclusion	V330a implementation OK

Test Case	
Test Case Id:	tc_8_2_2_17
Test Group Reference:	RRC/RRC_RB_Reconfig/
Purpose:	To confirm that the UE establishes radio bearers according to a RADIO BEARER RECONFIGURATION message
Configuration:	
Defaults:	RRC_Def1
Comments:	WI# RRC 4053

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+ ts_RRC_InitVariablesPS (cell_FACH)			
4		+pr_GotoState6_11_MO (tsc_CellA)			Preamble : To establish the PDP Context
5		+lt_LocalTest			
6		+ po_ConnectionAndSS_Rels			Postamble : To release the RRC connection and all the SS configuration
7	ERR1	[px_RAT=tdd]		I	TDD specific behaviour
8	ERR2	[TRUE]		I	
lt_LocalTest					
9	TBS	(tcv_TestBody=TRUE)			
10		AM ! RLC_AM_DATA_REQ	cas_RB_Reconfigure(tsc_CellDedicated, tsc_RB2, cds_100_RB_ReconfigFACH_RB20_RST600 (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, OMIT, tcv_CellInfoA.priScrmCode, OMIT))		step 1 in prose; CELL_FACH UL:32k DL 32k status to CELL_FACH UL:32k DL:32k
11		+ ts_SS_ReconfRLC_PollingInfo (tsc_CellA, c_UL_AM_RLC_Pu2800Poll250)			
12		+ ts_RRC_ReceiveRB_ReconfigCmpl (tsc_CellA, tcv_RRC_RAB_Type)			step 3 in prose;
13		+ ts_C2_CheckCellFACH (tsc_CellA)			step 4
14	TBE	(tcv_TestBody=FALSE)		(P)	

5 Branches executed in test case 8.2.2.17

The test case was executed in PS mode with Integrity activated and Ciphering disabled.

6 Execution Log Files

6.1 Nokia 3G UE 6650

The Nokia 3G UE 6650 passed this test case on the Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_2_17-Logs\PS\Index.html**
  Execution log files in HTML format showing the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 8_2_2_17-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for PS testing.

7 References

[1] **T1-031011**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

3GPP TSG-T1 Meeting #21
Budapest, Hungary, 3rd – 7th November 2003

Tdoc ⌘T1-031284

CR-Form-v7

CHANGE REQUEST

⌘ **TS 34.123-3 CR 031284** ⌘**rev** **-** ⌘ Current version: **3.2.1** ⌘

*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 ☐ Core Network ☐

Title:	⌘	Addition of RRC test case 8.2.4.10 to RRC ATS V3.2.1
Source:	⌘	T1
Work item code:	⌘	N/A
Date:	⌘	15/09/03
Category:	⌘	**F**
Release:	⌘	R99

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:	⌘	To add verified GCF package 2 RRC test case 8.2.4.10 to the approved RRC ATS V3.2.1
Summary of change:	⌘	This document lists all changes applied to test case 8.2.4.10 required for approval. This CR is a revision of T1-031166 and includes the ETSI/MCC160 feedback and the R&S conclusion on their comments and corrections made in the ETSI/MCC160 TTCN V330a implementation.
Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	N/A

Other specs affected:	⌘	Y	N		⌘
			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.

3GPP TSG- T1 Meeting #20 **T1-031284**
Munich, Germany, 28 July – 01 August 2003

Title: **Changes to test case 8.2.4.10 required for approval**

Source: T1

Agenda Item: TTCN Issues

Document for: Approval

Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.4.10 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

3 Verification Test Summary

Test Case:	TC_8_2_4_10
Test Group:	RRC/RRC_TrCh_Reconf
ATS Version:	iWD-TVB2002-03_D03wk24 + essential modifications
System Simulator used:	Rohde & Schwarz 3G system simulator CRTU-W
UE used:	Nokia 3G UE 6650
Verification Status:	PASS

4 Corrections required for test case 8.2.4.10

4.1 Introduction

This section describes the changes required to make test case 8.2.4.10 run correctly with a 3G UE. All modifications are marked with label "**WA#BasicM<number>**" for changes to the BasicM TTCN module and with label "**WA#RRC<number>**" for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk24.mp which is part of the iWD-TVB2002-03_D03wk24 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 and 2 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) which are already fixed in the V3.21 release and are therefore not documented in this CR:

WA#BasicM4011, WA#BasicM4012, WA#BasicM4017, WA#BasicM4020, WA#RRC3059, WA#RRC3079, WA#RRC3080, WA#RRC3081, WA#RRC4022, WA#RRC4031

For each correction the ETSI/MCC160 feedback and final R&S conclusion on the TTCN implementation is documented. These changes were implemented by MCC160 in their V330a release and the test case passed in regression-tests.

4.2 cr_ActPDP_ContextReqMO (WA#BasicM4014)

Constraint name	cr_ActPDP_ContextReqMO
Reason for change	see Anritsu CR - T1S.030419 Sec. 2.2.5
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoDCH for constraint definition
Source of change	new change
Label	WA#BasicM4014
ETSI comment	Accepted Shall be changed also in cr_ActPDP_ContextReqMO_Any, if possible.
R&S conclusion	V330a implementation OK

PDU Constraint Declaration	
Constraint Name:	cr_ActPDP_ContextReqMO(p_RequestedQoS : QualityOfService_bl)
Group:	
PDU Name:	ACTIVATEPDPCONTEXTREQUEST.ul
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	Activate PDP Context Request ue -> n 3GPP 24.008, 9.5.1 WA#Batch#4014

Field Name	Element Value	Type ...	Comments
ti	cr_TI_Any	Element Value	
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01000001'B		
requestedNSAPI	cr_NSAPI_v		
requestedLLC_SAPI	cr_LLC_SAPI_v		This has to be set to Not Assigned by UE in UMTS domain.
requestedQoS	p_RequestedQoS		The AT command interface will be used to set the QoS to this value.
pDP_Address	cr_PktDataProtoAddrMO_iv (px_PDP_IP_AddrInfoFACH)		
accessPtName	cr_AccessPtNameAny IF_PRESENT		The GGSN logical name or the external packet data network logical name.
protocolConfOpts	cr_ProtoCfgOptAny IF_PRESENT		

4.3 cr_ActPDP_ContextReqFACH_MO (WA#RRC3050)

Constraint name	cr_ActPDP_ContextReqFACH_MO
Reason for change	Anritsu CR - T1S.030427 Sec. 2.2.4
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoFACH for constraint definition
Source of change	new change
Label	WA#RRC3050
ETSI comment	Agreed in principle This change is not applicable in principle for this test case, since cell_DCH is choosen as in preamble ts_RRC_InitVariables (cell_DCH). But to be inline with same structure used for DCH (cr_ActPDP_ContextReqMO), ETSI agrees in principle this shall be changed also in cr_ActPDP_ContextReqRspMO, if possible. In the latter, also other params should be checked, not simply be set to '*'.
R&S conclusion	V330a implementation OK

PDU Constraint Declaration	
Constraint Name:	cr_ActPDP_ContextReqFACH_MO(p_RequestedQoS : QualityOfService_bl)
Group:	
PDU Name:	ACTIVATEPDPCONTEXTREQUEST.ul
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	Activate PDP Context Request ue -> n 3GPP 24.008, 9.5.1 WA#RRC3050

Field Name	Element Value	Type ...	Comments
ti	cr_TI_Any		
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01000001'B		
requestedNSAPI	cr_NSAPI_v		
requestedLLC_SAPI	cr_LLC_SAPI_v		This has to be set to Not Assigned by UE in UMTS domain.
requestedQoS	p_RequestedQoS		The AT command interface will be used to set the QoS to this value.
pDP_Address	cr_PktDataProtoAddrMO_iv (px_PDP_IP_AddrInfoFACH)		
accessPtName	cr_AccessPtNameAny IF_PRESENT		The GGSN logical name or the external packet data network logical name.
protocolConfOpts	cr_ProtoCfgOptAny IF_PRESENT		

4.4 ts_RRC_SendRB_SetUpFACH_PS (WA#RRC3055)

Test step name	ts_RRC_SendRB_SetUpFACH_PS
Reason for change	In test step ts_RRC_SendRB_SetUpFACH_PS a delay is set to 300 ms before the RAB Setup Complete is expected. However, the RAB Setup Complete is received in less than 250 ms.
Summary of change	Remove ts_RRC_Delay
Source of change	new change
Label	WA#RRC3055

ETSI comment	Accepted and will be done for v330.
R&S conclusion	OK in V330a

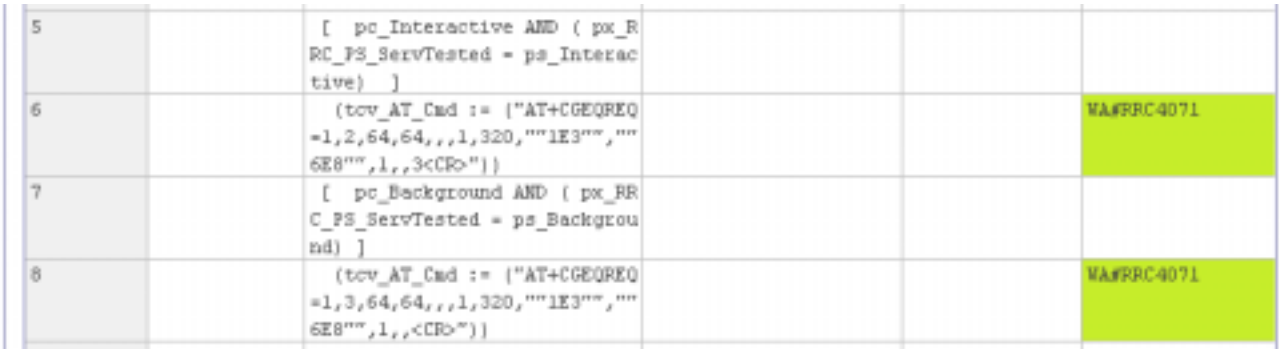
4.5 ts_CRLC_UL_CipherCfg_RAB (WA#RRC3073)

Test step name	ts_CRLC_UL_CipherCfg_RAB
Reason for change	see Anritsu CR T1S.030409, 2.2.12, the ciphering activation request and confirm steps are only needed when ciphering is enabled
Summary of change	see CR
Source of change	see CR
Label	WA#RRC3073
ETSI comment	Rejected. Even if Ciphering is not configured, this is required to maintain counters in sync with UE, as Ue will call these steps on its side. SS can adapt their adaptors to ignore it if presently they don't support it.
R&S conclusion	OK, works in V330a as suggested by MCC160

4.6 ts_AT_SetQoS (WA#RRC4071)

Constraint name	ts_AT_SetQoS
Reason for change	The Qos service parameters, fails when the SS sends a PDP Activate Accept, the UE replies with Deactivate PDP meassage
Summary of change	Changed the AT command parameters.
Source of change	New change
Label	WA#RRC4071
ETSI comment	Not accepted. The Standard configuaration defined in 34.108, in cell FACH is only 32 kbps
R&S conclusion	If QOS specified in 34.108 is to be used, then the MIN QOS should be higher or equal to the REQ QOS. Ie:

at+CGEQMIN=1,2,32,32,,,1,320,"1E3","4E3",1,,3
at+CGEQREQ=1,2,32,32,,,1,320,"1E4","1E5",1,,3
Therefore MIN QOS should be changed in “ts_AT_OrgPS_Call”



5		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]			
6		(tcv_AT_Cmd := |"AT+CGEQREQ=1,2,64,64,,,1,320,""1E3"",""6E8"",1,,3<CR>"|)			WA#RRC4071
7		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
8		(tcv_AT_Cmd := |"AT+CGEQREQ=1,3,64,64,,,1,320,""1E3"",""6E8"",1,,<CR>"|)			WA#RRC4071

4.7 cr_QoS_InteractiveOrBackgroundMO_CellFACH_lv (WA#RRC3051)

Constraint name	cr_QoS_InteractiveOrBackgroundMO_CellFACH_lv
Reason for change	The Qos service parameters, fails when the SS sends a PDP Activate Accept, the UE replies with Deactivate PDP meassage
Summary of change	cr_QoS_InteractiveOrBackgroundMO_CellFACH_lv and changed some values inside
Source of change	New change
Label	WA#RRC3051
ETSI comment	Not accepted, as for FACH the Standard configuaration defined in 34.108 is only 32 kbps for FACH
R&S conclusion	OK, if MIN QOS is changed in “ts_AT_OrgPS_Call”

Structured Type Constraint Declaration

Constraint Name:	cr_QoS_InteractiveOrBackgroundMO_CellFACH_lv (p_dlyClass ,p_trafficClass : B3)
Group:	
Type Name:	QualityOfService_lv
Derivation Path:	
Encoding Variation:	
Comments:	The QoS for interactive RAB at 64kbps uplink as well as down link, sent to the UE WA#RRC3051

Element Name	Element Value	Type Encoding	Comments
length	'0B'O		
spare	'00'B		
dlyClass	p_dlyClass		
relabilityClass	'100'B		Acknowledge Mode of RLC
peakThroughput	'0100'B		64 kbps
spare1	'0'B		
precedenceClass	'000'B		Subscribed class
spare2	'000'B		
meanThroughput	'11111'B		best effort
trafficClass	p_trafficClass		Interactive
deliveryOrder	'01'B		With delivery order
deliveryErrorSDU	'010'B		Erroneous SDUs are delivered
maxSDUSize	'20'O		320 bits
maxBitRateUplink	'40'O		64 kbps
maxBitRateDnlink	'40'O		64 kbps
residualBER	'1001'B		6 x 10E (-8)
sduErrRatio	'0011'B		1 X 10 E(-3)
transDly	?		Transfer delay will be neglected in case of interactive or background. Hence the value is set to spare
trafficHandpro	'11'B		This is set to 3, but has to be neglected by the UE as the traffic class is interactive.
bitRateUplink	?		The gaurented bit rate is set equal to requested bit rate.
bitRateDnlink	?		This will be neglected by UE as the class is interactive

4.8 cs_QoS_InteractiveOrBackgroundMT_CellFACH_lv (WA#RRC3068)

Constraint name	cr_QoS_InteractiveOrBackgroundMT_CellFACH_lv
Reason for change	The Qos service parameters, fails when the SS sends a PDP Activate Accept, the UE replies with Deactivate PDP meassage
Summary of change	cr_QoS_InteractiveOrBackgroundMT_CellFACH_lv and changed some values inside
Source of change	New change
Label	WA#RRC3068
ETSI comment	Not accepted, as for FACH the Standard configuaration defined in 34.108 is only 32 kbps for FACH
R&S conclusion	OK, if MIN QOS is changed in “ts_AT_OrgPS_Call”

Structured Type Constraint Declaration

Constraint Name:	cs_QoS_InteractiveOrBackgroundMT_CellFACH_lv (p_trafficClass : B3 ; p_dlyClass : B3)
Group:	
Type Name:	QualityOfService_lv
Derivation Path:	
Encoding Variation:	
Comments:	The QoS for interactive RAB at 32kbps uplink as well as down link, sent to the UE. This is set same as the one received by the nw WA#RRC3068

Element Name	Element Value	Type Encoding	Comments
length	'0B'O		
spare	'00'B		
dlyClass	p_dlyClass		
relabilityClass	'011'B		Unacknowledged GTP, LLC , and Acknowledged RLC: Proected Data
peakThroughput	'0110'B		32 kbps
spare1	'0'B		
precedenceClass	'000'B		Subscribed class
spare2	'000'B		
meanThroughput	'11111'B		best effort
trafficClass	p_trafficClass		
deliveryOrder	'01'B		
deliveryErrorSDU	'010'B		
max3DUSize	'20'O		
maxBitRateUplink	'40'O		64 kbps
maxBitRateDnlink	'40'O		64 kbps
residualBER	'1001'B		6 x 10E (-8)
sduErrRatio	'0011'B		1 X 10 E(-3)
transDly	'111111'B		Transfer delay will be neglected in case of in teractive or background . Hence the value is se t to spare
trafficHandpro	'11'B		This is set to 3, but h as to be neglected by t he UE as the traffic cl ass is interactive.
bitRateUplink	'00'O		The gaurented bit rate is set equal to request ed bit rate.
bitRateDnlink	'00'O		This will be neglected by UE as the class is i nteractive

4.9 tc_8_2_4_10 (WA#RRC4156)

Test step name	tc_8_2_4_10 : lt_LocalTest
Reason for change	As per 3GPP TS 34.123-1 V5.4.0 (2003-06), the IE Frequency Info is absent in the message contents for TRANSPORT CHANNEL RECONFIGURATION.
Summary of change	Replaced tcv_CellInfoA.frequencyInfo with OMIT
Source of change	New Change
Label	WA#RRC4156
ETSI comment	Accepted, will be done
R&S conclusion	OK in V330a

lt_LocalTest

12		(tcv_CellInfoA.dl_DPCH_2ndScrCode := tsc_DL_DPCH_ScrC_4)			
13		AM ! RLC_AM_DATA_REQ	cas_TrChReconf (tsc_CellDedicated, tsc_RB2, cds_TrChReconfFACH_ToDCH_NewRate (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, OMIT, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.ul_ScramblingCode))		step 1 WA#RRC4156
14		+ ts_RRC_Delay (tsc_WaitBeforeFACH_Conf)			

4.10 ts_SS_ReConfFACH_ToDCH_32kbpsPS

4.10.1 WA#RRC4150

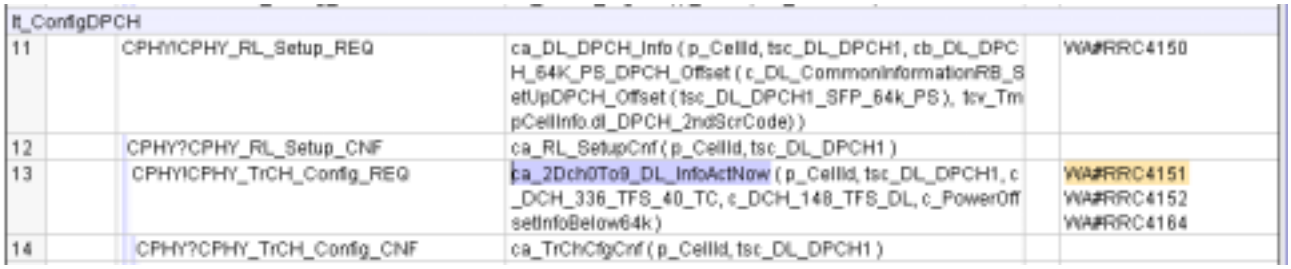
Test step name	ts_SS_ReConfFACH_ToDCH_32kbpsPS : lt_ConfigDPCH
Reason for change	Inconsistent downlink radio link configuration w.r.t. to the peer message Transport Channel Reconfiguration PDU.
Summary of change	changed from tsc_Sfd64 to tsc_DL_DPCH1_SFP_64k_PS
Source of change	New Change
Label	WA#RRC4150
ETSI comment	The prose says: >>>>>The UE has previously stored radio bearer and transport channel parameters for use in CELL_DCH. The SS transmits a TRANSPORT CHANNEL RECONFIGURATION message, which modifies the rate as compared to the stored configuration to the UE.<<<< The default configuaration that will be downloaded and used in normal cases is that of 64kbps. Hence we need to eastalish here with non 64 kbps, and we are trying with 32. Your observation is correct, UE is being provided with 64 kBps and SS being configured with 32. We will change PDU constaraint to ask us to configure 32kBps.
R&S conclusion	This is accepted.

lt_ConfigDPCH

11	CPHY!CPHY_RL_Setup_REQ	ca_DL_DPCH_Info (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_64K_PS_DPCH_Offset (c_DL_CommonInformationRB_SetUpDPCH_Offset (tsc_DL_DPCH1_SFP_64k_PS), tcv_TmpCellInfo.dl_DPCH_2ndScrCode))		WA#RRC4150
12	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_DL_DPCH1)		
13	CPHY!CPHY_TrCH_Config_REQ	ca_2Dch0To9_DL_InfoActNow (p_CellId, tsc_DL_DPCH1, c_DCH_336_TFS_40_TC, c_DCH_148_TFS_DL, c_PowerOffsetInfoBelow64k)		WA#RRC4151 WA#RRC4152 WA#RRC4164

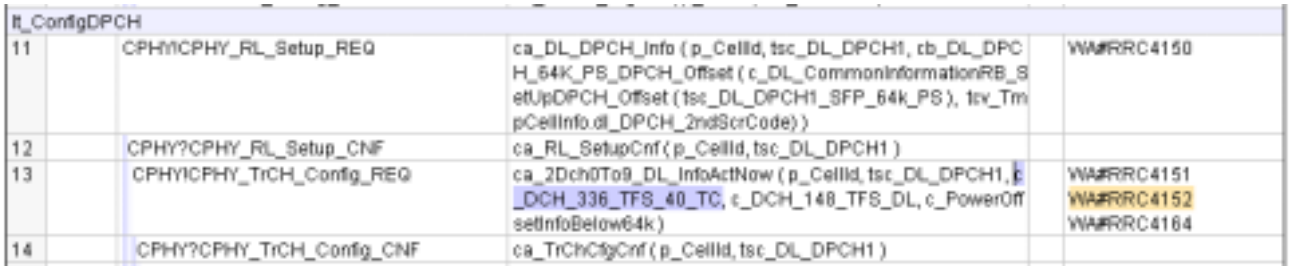
4.10.2 WA#RRC4151

Test step name	ts_SS_ReConfFACH_ToDCH_32kbpsPS : lt_ConfigDPCH
Reason for change	As Activation time is not being used in the Peer Transport Channel Reconfiguration PDU, the SS should also reconfigure immediately.
Summary of change	changed constraint to "ca_2Dch0To9_DL_InfoActNow"
Source of change	New Change
Label	WA#RRC4151
ETSI comment	Accepted, will be done
R&S conclusion	OK in V330a



4.10.3 WA#RRC4152

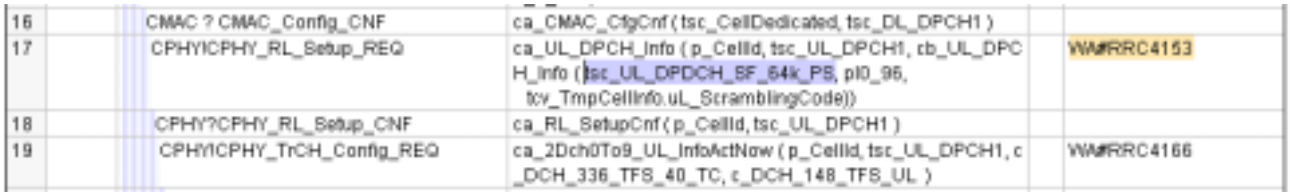
Test step name	ts_SS_ReConfFACH_ToDCH_32kbpsPS : lt_ConfigDPCH
Reason for change	Inconsistent downlink radio link configuration w.r.t. to the peer message Transport Channel Reconfiguration PDU.
Summary of change	changed "c_DCH_336_TFS_23_DL_40_TC" to "c_DCH_336_TFS_40_TC"
Source of change	New Change
Label	WA#RRC4152
ETSI comment	The prose says: >>>>>The UE has previously stored radio bearer and transport channel parameters for use in CELL_DCH. The SS transmits a TRANSPORT CHANNEL RECONFIGURATION message, which modifies the rate as compared to the stored configuration to the UE.<<<< The default configuaration that will be downloaded and used in normal cases is that of 64kbps. Hence we need to eastalish here with non 64 kbps, and we are trying with 32. Your observation is correct, UE is being provided with 64 kBps and SS being configured with 32. We will change PDU constaraint to ask us to configure 32kBps.
R&S conclusion	This is accepted



4.10.4 WA#RRC4153

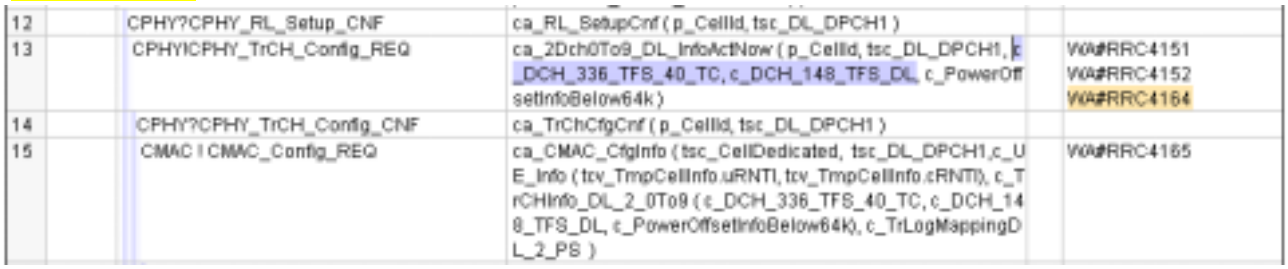
Test step name	ts_SS_ReConfFACH_ToDCH_32kbpsPS : lt_ConfigDPCH
Reason for change	Inconsistent uplink radio link configuration w.r.t. to the peer message Transport Channel Reconfiguration PDU.
Summary of change	Changed from tsc_Sf32 to tsc_UL_DPDCH_SF_64k_PS
Source of change	New Change
Label	WA#RRC4153

ETSI comment	The prose says: >>>>>The UE has previously stored radio bearer and transport channel parameters for use in CELL_DCH. The SS transmits a TRANSPORT CHANNEL RECONFIGURATION message, which modifies the rate as compared to the stored configuration to the UE.<<<< The default configuaration that will be downloaded and used in normal cases is that of 64kbps. Hence we need to eastalish here with non 64 kbps, and we are trying with 32. Your observation is correct, UE is being provided with 64 kBps and SS being configured with 32. We will change PDU constaraint to ask us to configure 32kBps.
R&S conclusion	This is accepted



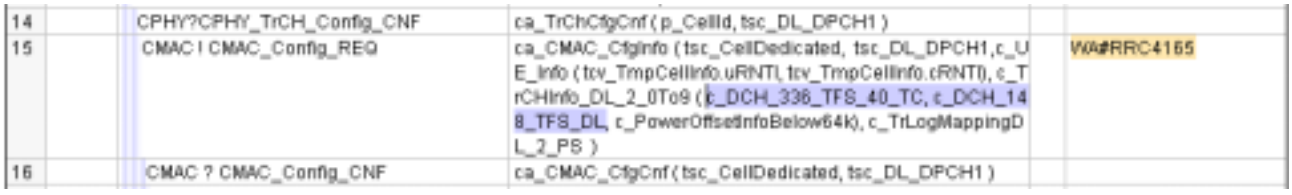
4.10.5 WA#RRC4164

Test step name	ts_SS_ReConfFACH_ToDCH_32kbpsPS : lt_ConfigDPCH
Reason for change	As a result of the Transport Channel being swapped, the argument order to the constraint were also swapped
Summary of change	Swapped Transport Channel Mapping parameters
Source of change	New Change
Label	WA#RRC4164
ETSI comment	Rejected This change is not required.
R&S conclusion	OK



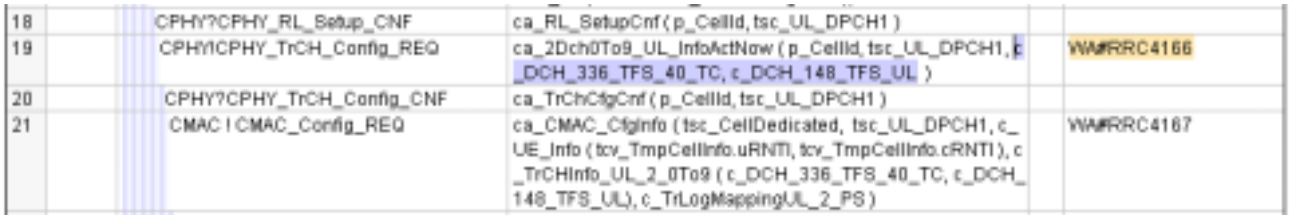
4.10.6 WA#RRC4165

Test step name	ts_SS_ReConfFACH_ToDCH_32kbpsPS : lt_ConfigDPCH
Reason for change	As a result of the Transport Channel being swapped, the argument order to the constraint were also swapped
Summary of change	Swapped Transport Channel Mapping parameters
Source of change	New Change
Label	WA#RRC4165
ETSI comment	Rejected This change is not required.
R&S conclusion	OK



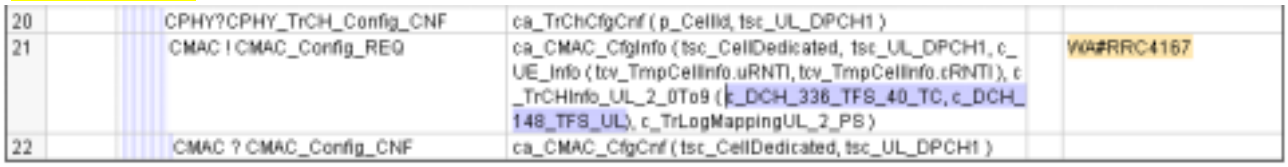
4.10.7 WA#RRC4166

Test step name	ts_SS_ReConfFACH_ToDCH_32kbpsPS : lt_ConfigDPCH
Reason for change	As a result of the Transport Channel being swapped, the argument order to the constraint were also swapped
Summary of change	Swapped Transport Channel Mapping parameters
Source of change	New Change
Label	WA#RRC4166
ETSI comment	Rejected This change is not required.
R&S conclusion	OK



4.10.8 WA#RRC4167

Test step name	ts_SS_ReConfFACH_ToDCH_32kbpsPS : lt_ConfigDPCH
Reason for change	As a result of the Transport Channel being swapped, the argument order to the constraint were also swapped
Summary of change	Swapped Transport Channel Mapping parameters
Source of change	New Change
Label	WA#RRC4167
ETSI comment	Rejected This change is not required.
R&S conclusion	OK



4.11 ca_2Dch0To9_DL_InfoActNow

4.11.1 WA#RRC4154

Test step name	ca_2Dch0To9_DL_InfoActNow
Reason for change	Created constraint to be used when Activation time is set to Immediate (ActNow)
Summary of change	Created "ca_2Dch0To9_DL_InfoActNow"
Source of change	New Change
Label	WA#RRC4154
ETSI comment	Accepted
R&S conclusion	OK

ASN.1 ASP Constraint Declaration

Constraint Name:	ca_2Dch0To9_DL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS ; p_PowerOffsetInformation:PowerOffsetInformation)
Group:	
ASP Name:	CPHY_TrCH_Config_REQ
Derivation Path:	
Comments:	For FDD mode only, used in aknowledged mode RLC testing WA#RRC4154 WA#RRC4160

Constraint Value

```
{
 cellId p_CellId,
 routingInfo physicalChannelIdentity: p_PhyChId,
 ratType fdd,
 configMessage {
  activationTime activateNow : NULL,
  diconnectedTrCHList {{
    trchid tsc_DL_DCH1,
    dl_TransportChannelType dch,
    transportChannelInfo p_DchTFS1
   },
   {
    trchid tsc_DL_DCH5,
    dl_TransportChannelType dch,
    transportChannelInfo p_DchTFS5
  }},
  dlTFCS c_TFCS_Cmpl0_To9_Tx ( p_PowerOffsetInformation )

 }
}
```

4.11.2 WA#RRC4160

Test step name	ca_2Dch0To9_DL_InfoActNow
Reason for change	Inconsistent Transport Channel Mapping w.r.t to Peer Message Transport Channel Reconfiguration PDU.
Summary of change	Swapped Transport Channel Mapping to be consistent with Trch PDU
Source of change	New Change
Label	WA#RRC4160
ETSI comment	Order in constraint can be changed, but no need to change order in parameter list also.
R&S conclusion	OK

ASN.1 ASP Constraint Declaration	
Constraint Name:	ca_2Dch0To9_DL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS ; p_PowerOffsetInformation:PowerOffsetInformation)
Group:	
ASP Name:	CPHY_TrCH_Config_REQ
Derivation Path:	
Comments:	For FDD mode only, used in aknowledged mode RLC testing WA#RRC4154 WA#RRC4160

Constraint Value

```
{
 cellId p_CellId,
 routingInfo physicalChannelIdentity: p_PhyChId,
 ratType fdd,
 configMessage {
  activationTime activateNow : NULL,
  dlconnectedTrCHList {{
    trchId tsc_DL_DCH1,
    dl_TransportChannelType dch,
    transportChannelInfo p_DchTFS1
   },
   {
    trchId tsc_DL_DCH5,
    dl_TransportChannelType dch,
    transportChannelInfo p_DchTFS5
  }},
  dlTFCS c_TFCS_Cmpl0_To9_Tx ( p_PowerOffsetInformation )

 }
}
```

4.12 cbs_108_TrChReconf64k_PS_FACH_ToDCH (WA#RRC4155)

Test step name	cbs_108_TrChReconf64k_PS_FACH_ToDCH
Reason for change	Incorrect constraint used for "dl_CommonInformation" in Transport Channel Reconfiguration PDU.
Summary of change	changed c_DL_CommonInformationDCH_DPCH_Offset to c_DL_CommonInformationRB_SetUpDPCH_Offset
Source of change	New Change
Label	WA#RRC4155
ETSI comment	Accepted
R&S conclusion	OK

Encoding Variation:	
Comments:	Defined in TS 34.123-1 annex A condition A.4 WA#RRC4155

Constraint Value

```
{
 integrityCheckInfo p_IntegrityCheckInfo,
 message transportChannelReconfiguration : r3:{
  transportChannelReconfiguration_r3 { --TransportChannelReconfiguration_r3_IEs
    rrc_TransactionIdentifier p_RRC_TI,
    integrityProtectionModeInfo OMIT,
    cipheringModeInfo OMIT,
    activationTime OMIT,
    new_U_RNTI OMIT,
    new_C_RNTI OMIT,
    rrc_StateIndicator cell_DCH,
    utran_DRX_CycleLengthCoeff OMIT,
    cn_InformationInfo OMIT,
    ura_Identity OMIT,
    ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k,
    ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListFACH_ToDCH,
    modeSpecificTransChInfo fdd :
    {
     cpch_SetID OMIT, -- CPCH_SetID
     addReconfTransChDRAC_Info OMIT -- DRAC_StaticInformationList
    },
    dl_CommonTransChInfo c_DL_CommTrChInfoFACH_ToDCH,
    dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListDCH_PS_64k,
    frequencyInfo p_FreqInfo, --FrequencyInfo
    maxAllowedUL_TX_Power tsc_MaxAllowPwr,
    ul_ChannelRequirement ul_DPCH_Info : { cb_UL_DPCH_Info { tsc_UL_DPDCH_SF_64k_PS, pl0_96 , p_UL_ScramblingCode }},
    modeSpecificPhysChInfo fdd:
    {
     dl_PDSCH_Information OMIT -- DL_PDSCH_Information
    },
    dl_CommonInformation c_DL_CommonInformationRB_SetUpDPCH_Offset { tsc_DL_DPCH1_SFP_64k_PS },
    dl_InformationPerRL_List c_DL_InfoPerRL_DPCH_Offset { p_PrimaryScramblingCode , tsc_DL_DPCH_ScrC_4 , tsc_DL_DPCH1_ChC_64k_PS }
--DL_InformationPerRL_List
  },
```

4.13 c_TrCHInfo_DL_2_0To9 (WA#RRC4157)

Test step name	c_TrCHInfo_DL_2_0To9
Reason for change	Inconsistent Transport Channel Mapping w.r.t to Peer Message Transport Channel Reconfiguration PDU.
Summary of change	Swapped Transport Channel Mapping to be consistent with Trch PDU
Source of change	New Change
Label	WA#RRC4157
ETSI comment	Order in constraint can be changed, but no need to change order in parameter list also.
R&S conclusion	OK

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TrCHInfo_DL_2_0To9 (p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS ;p_PowerOffsetInformation :PowerOffsetInformation)
Group:	
Type Name:	TrCHInfo
Derivation Path:	
Encoding Variation:	
Comments:	With CTFC list : 0, 1, 2, 3, 4, 5,6 ,7, 8, 9 WA#RRC4157

Constraint Value

```
{
 dlconnectedTrCHList {{
    trchid tsc_DL_DCH1,
    transportChannelInfo p_DchTFS1
   },
   {
    trchid tsc_DL_DCH5,
    transportChannelInfo p_DchTFS5
 }},
 dlTFCS c_TFCS_Cmpl0_To9_Tx ( p_PowerOffsetInformation )

}
```

4.14 c_TrCHInfo_UL_2_0To9 (WA#RRC4158)

Test step name	c_TrCHInfo_UL_2_0To9
Reason for change	Inconsistent Transport Channel Mapping w.r.t to Peer Message Transport Channel Reconfiguration PDU.
Summary of change	Swapped Transport Channel Mapping to be consistent with Trch PDU
Source of change	New Change
Label	WA#RRC4158
ETSI comment	Order in constraint can be changed, but no need to change order in parameter list also.
R&S conclusion	OK

ASN.1 Type Constraint Declaration	
Constraint Name:	c_TrCHInfo_UL_2_0To9 (p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS)
Group:	
Type Name:	TrCHInfo
Derivation Path:	
Encoding Variation:	
Comments:	With CTFC list : 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 WA#RRC4158

Constraint Value

```
{
 ulconnectedTrCHList {{
    trchid tsc_UL_DCH1,
    transportChannelInfo p_DchTFS1
   },
   {
    trchid tsc_UL_DCH5,
    transportChannelInfo p_DchTFS5
 }},
 ulTFCS c_TFCS_Cmpl0_To9_Rx
}
```

4.15 ca_2Dch0To9_UL_InfoActNow (WA#RRC4161)

Test step name	ca_2Dch0To9_UL_InfoActNow
Reason for change	Inconsistent Transport Channel Mapping w.r.t to Peer Message Transport Channel Reconfiguration PDU.
Summary of change	Swapped Transport Channel Mapping to be consistent with Trch PDU

Source of change	New Change
Label	WA#RRC4161
ETSI comment	Order in constraint can be changed, but no need to change order in parameter list also.
R&S conclusion	OK

ASN.1 ASP Constraint Declaration

Constraint Name:	ca_2Dch0To9_UL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS)
Group:	
ASP Name:	CPHY_TrCH_Config_REQ
Derivation Path:	
Comments:	For FDD mode only, used in aknowledged mode RLC testing. With ctfc from 0 to 9. WA#RRC4161

Constraint Value

```
{ cellId p_CellId,
 routingInfo physicalChannelIdentity: p_PhyChId,
 ratType fdd,
 configMessage
 {
  activationTime activateNow : NULL,
  ulconnectedTrCHList {{
    trchId tsc_UL_DCH1,
    ul_TransportChannelType dch,
    transportChannelInfo p_DchTFS1
   },
   {
    trchId tsc_UL_DCH5,
    ul_TransportChannelType dch,
    transportChannelInfo p_DchTFS5
  }},
  ulTFCS
  c_TFCS_Cmpl0_To9_Rx

 }
}
```

4.16 cds_TrChReconfFACH_ToDCH_NewRate (WA#RRC4163)

Test step name	cds_TrChReconfFACH_ToDCH_NewRate
Reason for change	Incorrect number of Transport Channel's used in RPLACE function for both UL & DL AddReconfTransChInfoList
Summary of change	Added correct number of transportchannel mappings for UL & DL
Source of change	New Change
Label	WA#RRC4163
ETSI comment	Accepted
R&S conclusion	OK

ASN.1 PDU Constraint Declaration

Constraint Name:	cds_TrChReconfFACH_ToDCH_NewRate (p_IntegrityCheckInfo : IntegrityCheckInfo; p_RRC_TI: RRC_TransactionIdentifier; p_FreqInfo: FrequencyInfo; p_PrimaryScramblingCode : PrimaryScramblingCode; p_UL_ScramblingCode : UL_ScramblingCode)
Group:	
PDU Name:	DL_DCCH_Message
Derivation Path:	cbs_108_TrChReconf64k_PS_FACH_ToDCH.
Encoding Rule Name:	
Encoding Variation:	
Comments:	WA#RRC4163

Constraint Value

```
REPLACE message.transportChannelReconfiguration.r3.transportChannelReconfiguration_r3.ul_AddReconfTransChInfoList BY
{ {
  ul_TransportChannelType dch,
  transportChannelIdentity tsc_UL_DCH1,
  transportFormatSet dedicatedTransChTFS : c_DCH_336_TFS_40_TC_UE
 },
 {
  ul_TransportChannelType dch,
  transportChannelIdentity tsc_UL_DCH5,
  transportFormatSet dedicatedTransChTFS: c_DCH_148_TFS_UE_UL
}},
REPLACE message.transportChannelReconfiguration.r3.transportChannelReconfiguration_r3.dl_AddReconfTransChInfoList BY
{ {
  dl_TransportChannelType dch,
  dl_transportChannelIdentity tsc_DL_DCH1,
  tfs_SignalingMode explicit_config : dedicatedTransChTFS : c_DCH_336_TFS_40_TC_UE ,
  dch_QualityTarget { bler_QualityValue -2 }
 },
 c_DL_AddReconfTransChInfo ( tsc_DL_DCH5, tsc_UL_DCH5 )
}},
REPLACE message.transportChannelReconfiguration.r3.transportChannelReconfiguration_r3.maxAllowedUL_TX_Power BY
OMIT,
REPLACE message.transportChannelReconfiguration.r3.transportChannelReconfiguration_r3.dl_InformationPerRL_List BY
c_DL_InfoPerRL_DPCH_OffsetNoScrChange ( p_PrimaryScramblingCode , tsc_DL_DPCH_ScrC_4 , tsc_DL_DPCH1_ChC_64k_PS )
```

5 Branches executed in test case 8.2.4.10

The test case was executed in PS mode with Integrity activated and Ciphering disabled.

6 Execution Log Files

6.1 Nokia 3G UE 6650

The Nokia 3G UE 6650 passed this test case on the Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_4_10-Logs\PS\Index.html**
  Execution log files in HTML format showing the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 8_2_4_10-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for PS testing.

7 References

[1] **T1-031167**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

3GPP TSG-T1 Meeting #21
Budapest, Hungary, 3rd – 7th November 2003

Tdoc ⌘T1-031285

CR-Form-v7

CHANGE REQUEST

⌘ **TS 34.123-3 CR 031285** ⌘**rev** **-** ⌘ Current version: **3.2.1** ⌘

*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 ☐ Core Network ☐

Title:	⌘	Addition of RRC test case 8.2.6.7 to RRC ATS V3.2.1
Source:	⌘	T1
Work item code:	⌘	N/A
Date:	⌘	16/09/03
Category:	⌘	**F**
Release:	⌘	R99

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:	⌘	To add verified GCF package 2 RRC test case 8.2.6.7 to the approved RRC ATS V3.2.1
Summary of change:	⌘	This document lists all changes applied to test case 8.2.6.7 required for approval. This CR is a revision of T1-031114 and includes the ETSI/MCC160 feedback and the R&S conclusion on their comments and corrections made in the ETSI/MCC160 TTCN V330a implementation.
Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	N/A			
Other specs affected:	⌘	**Y**	**N**		
			X	Other core specifications	⌘
			X	Test specifications	
			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.

3GPP TSG- T1 Meeting #20 **T1-031285**
Munich, Germany, 28 July – 01 August 2003

Title: **Changes to test case 8.2.6.7 required for approval**

Source: T1

Agenda Item: TTCN Issues

Document for: Approval

Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.6.7 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

3 Verification Test Summary

Test Case:	TC_8_2_6_7
Test Group:	RRC/RRC_PhyCh_Reconf/
ATS Version:	iWD-TVB2002-03_D03wk24 + essential modifications
System Simulator used:	Rohde & Schwarz 3G system simulator CRTU-W
UE used:	Nokia 3G UE 6650
Verification Status:	PASS

4 Corrections required for test case 8.2.6.7

4.1 Introduction

This section describes the changes required to make test case 8.2.6.7 run correctly with a 3G UE. All modifications are marked with label "**WA#BasicM<number>**" for changes to the BasicM TTCN module and with label "**WA#RRC<number>**" for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk24.mp which is part of the iWD-TVB2002-03_D03wk24 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 and 2 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) which are already fixed in the V3.21 release and are therefore not documented in this CR:

WA#BasicM4011, WA#BasicM4012, WA#BasicM4017, WA#BasicM4020, WA#RRC3059, WA#RRC3079, WA#RRC3080, WA#RRC3081, WA#RRC4087, WA#RRC4022, WA#RRC4031, WA#RRC4041, WA#RRC4055, WA#RRC3051, WA#RRC3068

For each correction the ETSI/MCC160 feedback and final R&S conclusion on the TTCN implementation is documented. These changes were implemented by MCC160 in their V330a release and the test case passed in regression-tests.

4.2 cr_ActPDP_ContextReqMO (WA#BasicM4014)

Constraint name	cr_ActPDP_ContextReqMO
Reason for change	see Anritsu CR - T1S.030419 Sec. 2.2.5
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoDCH for constraint definition
Source of change	new change
Label	WA#BasicM4014
ETSI comment	Accepted Shall be changed also in cr_ActPDP_ContextReqMO_Any, if possible.
R&S conclusion	V330a implementation OK

4.3 cr_ActPDP_ContextReqFACH_MO (WA#RRC3050)

Constraint name	cr_ActPDP_ContextReqFACH_MO
Reason for change	Anritsu CR - T1S.030427 Sec. 2.2.4
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoFACH for constraint definition
Source of change	new change
Label	WA#RRC3050
ETSI comment	Agreed in principle This change is not applicable in principle for this test case, since cell_DCH is choosen as in preamble ts_RRC_InitVariables (cell_DCH). But to be inline with same structure used for DCH (cr_ActPDP_ContextReqMO), ETSI agrees in principle this shall be changed also in cr_ActPDP_ContextReqRspMO, if possible. In the latter, also other params should be checked, not simply be set to '*'.
R&S conclusion	V330a implementation OK

4.4 ts_RRC_SendRB_SetUpFACH_PS (WA#RRC3055)

Test step name	ts_RRC_SendRB_SetUpFACH_PS
Reason for change	In test step ts_RRC_SendRB_SetUpFACH_PS a delay is set to 300 ms before the RAB Setup Complete is expected. However, the RAB Setup Complete is received in less than 250 ms.
Summary of change	Remove ts_RRC_Delay
Source of change	new change
Label	WA#RRC3055

ETSI comment Accepted and will be done for v330.

R&S conclusion OK in V330a

Test Step					
Test Step Id:	ts_RRC_SendRB_SetUpFACH_PS(p_CellId: INTEGER; p_RAB_Id: BITSTRING; p_ActTime: ActivationTime)				
Test Step Group Ref:	BasicM_RRC_Steps/RRC_RAB_Steps				
Objective:	To setup a RADIO BEARER cell_FACH_PS and to reconfigure the SS accordingly				
Defaults:	RRC_Def1				
Comments:	See TS 34.109 cl. 6.10.2.4.3.2.1.2 for downlink and 6.10.2.4.4.1.1.1 for uplink No channel reconfiguration is needed, because the complete configuration is setup in ts_GS_CreateCellFACH WA#RRC3055				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		AM ! RLC_AM_DATA_REQ	cas_RB_SetUpAM (tsc_CellDedicated, tsc_RB2, (tbc_108_RB_SetUpFACH_PS (tcv_CellIdentity id_IntegrityCheckInfo, tcv_RRC_TI, tcv_TmpCellInfo.frequencyInfo, p_RAB_Id, tcv_TmpCellInfo.primScrCode, tcv_TmpCellInfo.cRNTI)		
3	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId , cas_FACH_PS)			

4.5 ts_CRLC_UL_CipherCfg_RAB (WA#RRC3073)

Test step name	ts_CRLC_UL_CipherCfg_RAB
Reason for change	see Anritsu CR T1S.030409, 2.2.12, the ciphering activation request and confirm steps are only needed when ciphering is enabled
Summary of change	see CR
Source of change	see CR
Label	WA#RRC3073
ETSI comment	Rejected. This change have been rised several times and it was always clarified, that the value of RB_ActivationTimeInfoList is needed for a SS to calculate the value independent of ciphering activated or not.
R&S conclusion	V330a implementation OK

Test Step					
Test Step Id:	ts_CRLC_UL_CipherCfg_RAB (p_CN_Domain: CN_DomainIdentity; p_RB_ActivationTimeInfoList: RB_ActivationTimeInfoList)				
Test Step Group Ref:	BasicM_Security_Steps/				
Objective:	Configure ciphering for RLC layer				
Defaults:	SS_Def				
Comments:	CRLC is configured with cellId=1 (tsc_CellDedicated), WA#RRC3073				
Ind	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		[p_CipheringOnOff]			
1		CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_UL_CipherActReq (tsc_CellDedicated , p_CN_Domain, p_RB_ActivationTimeInfoList)		configure ciphering for signaling radio bearers
2		CRLC ? CRLC_Ciphering_Activate_CNF	ca_CRLC_CipherActCnf(tsc_CellDedicated)		
0		[NOT (p_CipheringOnOff)]			

5 Branches executed in test case 8.2.6.7

The test case was executed in PS mode with Integrity activated and Ciphering disabled.

6 Execution Log Files

6.1 Nokia 3G UE 6650

The Nokia 3G UE 6650 passed this test case on the Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_6_7-Logs\PS\Index.html**
  Execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 8_2_6_7-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for PS testing.

7 References

[1] **T1-031115**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

3GPP TSG-T1 Meeting #21
Budapest, Hungary, 3rd – 7th November 2003

Tdoc ⌘T1-031286

CR-Form-v7

CHANGE REQUEST

⌘ **TS 34.123-3 CR 031286** ⌘**rev** **-** ⌘ Current version: **3.2.1** ⌘

*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 ☐ Core Network ☐

Title:	⌘	Addition of RRC test case 8.2.2.8 to RRC ATS V3.2.1
Source:	⌘	T1
Work item code:	⌘	N/A
Date:	⌘	16/09/03
Category:	⌘	**F**
Release:	⌘	R99

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:	⌘	To add verified GCF package 2 RRC test case 8.2.2.8 to the approved RRC ATS V3.2.1
Summary of change:	⌘	This document lists all changes applied to test case 8.2.2.8 required for approval. This CR is a revision of T1-031004 and includes the ETSI/MCC160 feedback and the R&S conclusion on their comments and corrections made in the ETSI/MCC160 TTCN V330a implementation.
Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	N/A			
Other specs affected:	⌘	**Y**	**N**		
			X	Other core specifications	⌘
			X	Test specifications	
			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.

3GPP TSG- T1 Meeting #20 **T1-031286**
Munich, Germany, 28 July – 01 August 2003

Title: **Changes to test case 8.2.2.8 required for approval**

Source: T1

Agenda Item: TTCN Issues

Document for: Approval

Contact: Thomas Moosburger
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Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.2.8 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

3 Verification Test Summary

Test Case:	TC_8_2_2_8
Test Group:	RRC/RRC_RB_Reconfig/
ATS Version:	iWD-TVB2002-03_D03wk24 + essential modifications
System Simulator used:	Rohde & Schwarz 3G system simulator CRTU-W
UE used:	Nokia 3G UE 6650
Verification Status:	PASS

4 Corrections required for test case 8.2.2.8

4.1 Introduction

This section describes the changes required to make test case 8.2.2.8 run correctly with a 3G UE. All modifications are marked with label "**WA#BasicM<number>**" for changes to the BasicM TTCN module and with label "**WA#RRC<number>**" for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk24.mp which is part of the iWD-TVB2002-03_D03wk24 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 and 2 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) which are already fixed in the V3.21 release and are therefore not documented in this CR:

WA#BasicM4011, WA#BasicM4012, WA#BasicM4017, WA#BasicM4020, WA#RRC3059, WA#RRC3079, WA#RRC3080, WA#RRC3081, WA#RRC3087, WA#RRC4022, WA#RRC4031, WA#RRC4041, WA#RRC4055, WA#RRC3051, WA#RRC3068

For each correction the ETSI/MCC160 feedback and final R&S conclusion on the TTCN implementation is documented. These changes were implemented by MCC160 in their V330a release and the test case passed in regression-tests.

4.2 cr_ActPDP_ContextReqMO (WA#BasicM4014)

Constraint name	cr_ActPDP_ContextReqMO
Reason for change	see Anritsu CR - T1S.030419 Sec. 2.2.5
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoDCH for constraint definition
Source of change	new change
Label	WA#BasicM4014
ETSI comment	Accepted Shall be changed also in cr_ActPDP_ContextReqMO_Any, if possible.
R&S conclusion	V330a implementation OK

4.3 cr_ActPDP_ContextReqFACH_MO (WA#RRC3050)

Constraint name	cr_ActPDP_ContextReqFACH_MO
Reason for change	Anritsu CR - T1S.030427 Sec. 2.2.4
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoFACH for constraint definition
Source of change	new change
Label	WA#RRC3050
ETSI comment	Agreed in principle This change is not applicable in principle for this test case, since cell_DCH is choosen as in preamble ts_RRC_InitVariables (cell_DCH). But to be inline with same structure used for DCH (cr_ActPDP_ContextReqMO), ETSI agrees in principle this shall be changed also in cr_ActPDP_ContextReqRspMO, if possible. In the latter, also other params should be checked, not simply be set to '*'.
R&S conclusion	V330a implementation OK

4.4 ts_RRC_SendRB_SetUpFACH_PS (WA#RRC3055)

Test step name	ts_RRC_SendRB_SetUpFACH_PS
Reason for change	In test step ts_RRC_SendRB_SetUpFACH_PS a delay is set to 300 ms before the RAB Setup Complete is expected. However, the RAB Setup Complete is received in less than 250 ms.
Summary of change	Remove ts_RRC_Delay
Source of change	new change
Label	WA#RRC3055

ETSI comment	Accepted and will be done for v330.
R&S conclusion	OK in V330a

4.5 ts_CRLC_UL_CipherCfg_RAB (WA#RRC3073)

Test step name	ts_CRLC_UL_CipherCfg_RAB
Reason for change	see Anritsu CR T1S.030409, 2.2.12, the ciphering activation request and confirm steps are only needed when ciphering is enabled
Summary of change	see CR
Source of change	see CR
Label	WA#RRC3073
ETSI comment	Rejected. This change have been rised several times and it was always clarified, that the value of RB_ActivationTimeInfoList is needed for a SS to calculate the value independent of ciphering activated or not.
R&S conclusion	V330a implementation OK

4.6 ts_SS_ReconfRLC_PollingInfo (WA#RRC4040)

Test step name	ts_SS_ReconfRLC_PollingInfo
Reason for change	The test step ts_SS_ReconfRLC_PollingInfo is generic for PS and CS. But the test step reconfigures RB 20. When running test cases in CS branch the tester complains about RB 20, which is not configurecd.
Summary of change	Added the following condition in ts_SS_ReconfRLC_PollingInfo in Line 8 [tcv_CN_Domain = ps_domain] to cater for RB20 in Line 11 added [TRUE] the alternatives.
Source of change	new change
Label	WA#RRC4040
ETSI comment	Accepted
R&S conclusion	V330a implementation OK

Test Step	
Test Step Id:	ts_SS_RecordRLC_PollingInfo (p_CellId: INTEGER, p_UL_AM_RLC_Mode : UL_AM_RLC_Mode)
Test Step Group Ref:	RRCM_SS_Steps/
Objective:	To reconfigure SRB2, SRB3 and SRB4 regarding the polling information.
Defaults:	SS_Def
Comments:	WAITRRC 4040

Nr	Label	Behaviour Description	Constraint Ref	Verdi...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfInfoSS_DL (tsc_CellDedicated, tsc_RB2, {uLogicalChannelIdentity tsc_UL_DCCH2, dLogicalChannelIdentity tsc_DL_DCCH2}, 128, p_UL_AM_RLC_Mode)		configure radio bearers RB2 (AM + DCCH) and (AM + DCCH)
3		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB2)		
4		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfInfoSS_DL (tsc_CellDedicated, tsc_RB3, {uLogicalChannelIdentity tsc_UL_DCCH3, dLogicalChannelIdentity tsc_DL_DCCH3}, 128, p_UL_AM_RLC_Mode)		configure radio bearers : RB3 (AM + DCCH) and (AM + DCCH)
5		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB3)		
6		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfInfoSS_DL (tsc_CellDedicated, tsc_RB4, {uLogicalChannelIdentity tsc_UL_DCCH4, dLogicalChannelIdentity tsc_DL_DCCH4}, 128, p_UL_AM_RLC_Mode)		configure radio bearers : RB4(AM + DCCH) and (AM + DCCH)
7		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB4)		
8		[tsc_CN_Domain = pic_domain]			WAITRRC 4040
9		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfInfoSS_DL (tsc_CellDedicated, tsc_RB20, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1}, 320, p_UL_AM_RLC_Mode)		configure radio bearers RB20 (AM + DTCH)
10		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB20)		
11		[TRUE]			WAITRRC 4040

5 Branches executed in test case 8.2.2.8

The test case was executed in PS mode with Integrity activated and Ciphering disabled.

6 Execution Log Files

6.1 Nokia 3G UE 6650

The Nokia 3G UE 6650 passed this test case on the Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_2_8-Logs\PS\Index.html**
  This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 8_2_2_8-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for CS/PS testing.

7 References

[1] **T1-031005**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

3GPP TSG-T1 Meeting #21
Budapest, Hungary, 3rd – 7th November 2003

Tdoc ⌘T1-031287

CR-Form-v7

CHANGE REQUEST

⌘ **TS 34.123-3 CR 031287** ⌘**rev** **-** ⌘ Current version: **3.2.1** ⌘

*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 ☐ Core Network ☐

Title:	⌘	Addition of RRC test case 8.2.2.10 to RRC ATS V3.2.1
Source:	⌘	T1
Work item code:	⌘	N/A
Date:	⌘	16/09/03
Category:	⌘	**F**
Release:	⌘	R99

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:	⌘	To add verified GCF package 2 RRC test case 8.2.2.10 to the approved RRC ATS V3.2.1
Summary of change:	⌘	This document lists all changes applied to test case 8.2.2.10 required for approval. This CR is a revision of T1-031006 and includes the ETSI/MCC160 feedback and the R&S conclusion on their comments and corrections made in the ETSI/MCC160 TTCN V330a implementation.
Consequences if not approved:	⌘	Test case will not be added to ATS

Clauses affected:	⌘	N/A

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

3GPP TSG- T1 Meeting #20 **T1-031287**
Munich, Germany, 28 July – 01 August 2003

Title: **Changes to test case 8.2.2.10 required for approval**

Source: T1

Agenda Item: TTCN Issues

Document for: Approval

Contact: Thomas Moosburger
thomas.moosburger@rsd.rohde-schwarz.com
Tel. +49 89 4129 11731

1 Overview

This document lists all the changes needed to correct problems in the TTCN implementation of test case 8.2.2.10 which is part of the RRC test suite. Only essential changes to the TTCN are applied and documented in section 4.

With these changes applied the test case can be demonstrated to run with one or more 3G UEs (see section 6). Execution log files are provided as evidence.

2 Table of Contents

3 Verification Test Summary

Test Case:	TC_8_2_2_10
Test Group:	RRC/RRC_RB_Reconfig/
ATS Version:	iWD-TVB2002-03_D03wk24 + essential modifications
System Simulator used:	Rohde & Schwarz 3G system simulator CRTU-W
UE used:	Nokia 3G UE 6650
Verification Status:	PASS

4 Corrections required for test case 8.2.2.10

4.1 Introduction

This section describes the changes required to make test case 8.2.2.10 run correctly with a 3G UE. All modifications are marked with label "**WA#BasicM<number>**" for changes to the BasicM TTCN module and with label "**WA#RRC<number>**" for RRC related changes in the TTCN comments column of the enclosed ATS [1].

The ATS version used as basis was RRC_wk24.mp which is part of the iWD-TVB2002-03_D03wk24 release. This is the most recent ATS provided by MCC160 which contains GCF package 1 and 2 test cases.

The enclosed ATS [1] contains a number of additional changes (see list below) which are already fixed in the V3.21 release and are therefore not documented in this CR:

WA#BasicM4011, WA#BasicM4012, WA#BasicM4017, WA#BasicM4020, WA#RRC3059, WA#RRC3079, WA#RRC3080, WA#RRC3081, WA#RRC4022, WA#RRC4031, WA#RRC3051, WA#RRC3068

For each correction the ETSI/MCC160 feedback and final R&S conclusion on the TTCN implementation is documented. These changes were implemented by MCC160 in their V330a release and the test case passed in regression-tests.

4.2 cr_ActPDP_ContextReqMO (WA#BasicM4014)

Constraint name	cr_ActPDP_ContextReqMO
Reason for change	see Anritsu CR - T1S.030419 Sec. 2.2.5
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoDCH for constraint definition
Source of change	new change
Label	WA#BasicM4014
ETSI comment	Accepted Shall be changed also in cr_ActPDP_ContextReqMO_Any, if possible.
R&S conclusion	V330a implementation OK

4.3 cr_ActPDP_ContextReqFACH_MO (WA#RRC3050)

Constraint name	cr_ActPDP_ContextReqFACH_MO
Reason for change	Anritsu CR - T1S.030427 Sec. 2.2.4
Summary of change	The MCC160 implementation in V3.21 uses a question mark ('?') for field pDP_Address; the proposed solution is more strict by using the PICS/PIXIT parameter px_PDP_IP_AddrInfoFACH for constraint definition
Source of change	new change
Label	WA#RRC3050
ETSI comment	Agreed in principle This change is not applicable in principle for this test case, since cell_DCH is choosen as in preamble ts_RRC_InitVariables (cell_DCH). But to be inline with same structure used for DCH (cr_ActPDP_ContextReqMO), ETSI agrees in principle this shall be changed also in cr_ActPDP_ContextReqRspMO, if possible. In the latter, also other params should be checked, not simply be set to '*'.
R&S conclusion	V330a implementation OK

4.4 ts_RRC_SendRB_SetUpFACH_PS (WA#RRC3055)

Test step name	ts_RRC_SendRB_SetUpFACH_PS
Reason for change	In test step ts_RRC_SendRB_SetUpFACH_PS a delay is set to 300 ms before the RAB Setup Complete is expected. However, the RAB Setup Complete is received in less than 250 ms.
Summary of change	Remove ts_RRC_Delay
Source of change	new change
Label	WA#RRC3055

ETSI comment	Accepted and will be done for v330.
R&S conclusion	OK in V330a

4.5 ts_CRLC_UL_CipherCfg_RAB (WA#RRC3073)

Test step name	ts_CRLC_UL_CipherCfg_RAB
Reason for change	see Anritsu CR T1S.030409, 2.2.12, the ciphering activation request and confirm steps are only needed when ciphering is enabled
Summary of change	see CR
Source of change	see CR
Label	WA#RRC3073
ETSI comment	Rejected. This change have been rised several times and it was always clarified, that the value of RB_ActivationTimeInfoList is needed for a SS to calculate the value independent of ciphering activated or not.
R&S conclusion	V330a implementation OK

4.6 ts_SS_ReconfRLC_PollingInfo (WA#RRC4040)

Test step name	ts_SS_ReconfRLC_PollingInfo
Reason for change	The test step ts_SS_ReconfRLC_PollingInfo is generic for PS and CS. But the test step reconfigures RB 20. When running test cases in CS branch the tester complains about RB 20, which is not configurecd.
Summary of change	Added the following condition in ts_SS_ReconfRLC_PollingInfo in Line 8 [tcv_CN_Domain = ps_domain] to cater for RB20 in Line 11 added [TRUE] the alternatives.
Source of change	new change
Label	WA#RRC4040
ETSI comment	Accepted
R&S conclusion	V330a implementation OK

Test Step

Test Step Id:	ts_SS_RecordRLC_PollingInfo (p_CellId: INTEGER, p_UL_AM_RLC_Mode: UL_AM_RLC_Mode)
Test Step Group Ref:	RRCM_SS_Steps/
Objective:	To reconfigure SRB2, SRB3 and SRB4 regarding the polling information.
Defaults:	SS_Def
Comments:	WA#RRC 4040

Nr	Label	Behaviour Description	Constraint Ref	Verdi...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		CRLC ! CRLC_Config_REQ	ca_RB_AM_RecordInfoSS_DL (tsc_CellDedicated, tsc_RB2, {uLogicalChannelIdentity tsc_UL_DCCH2, dLogicalChannelIdentity tsc_DL_DCCH2}, 128, p_UL_AM_RLC_Mode)		configure radio bearers RB2 (AM + DCCH) and (AM + DCCH)
3		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB2)		
4		CRLC ! CRLC_Config_REQ	ca_RB_AM_RecordInfoSS_DL (tsc_CellDedicated, tsc_RB3, {uLogicalChannelIdentity tsc_UL_DCCH3, dLogicalChannelIdentity tsc_DL_DCCH3}, 128, p_UL_AM_RLC_Mode)		configure radio bearers : RB3 (AM + DCCH) and (AM + DCCH)
5		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB3)		
6		CRLC ! CRLC_Config_REQ	ca_RB_AM_RecordInfoSS_DL (tsc_CellDedicated, tsc_RB4, {uLogicalChannelIdentity tsc_UL_DCCH4, dLogicalChannelIdentity tsc_DL_DCCH4}, 128, p_UL_AM_RLC_Mode)		configure radio bearers : RB4(AM + DCCH) and (AM + DCCH)
7		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB4)		
8		[tsc_CN_Domain = ps_domain]			WA#RRC 4040
9		CRLC ! CRLC_Config_REQ	ca_RB_AM_RecordInfoSS_DL (tsc_CellDedicated, tsc_RB20, {uLogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1}, 320, p_UL_AM_RLC_Mode)		configure radio bearers RB20 (AM + DTCH)
10		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB20)		
11		[TRUE]			WA#RRC 4040

4.7 cbs_108_RB_ReconfigFACH_ToDCH (WA#RRC4047)

Constraint name	cbs_108_RB_ReconfigFACH_ToDCH
Reason for change	The test case 8_2_2_10 fails in the radio bearer reconfiguration procedure. SS does not receive the radio bearer reconfiguration complete.mis match values in the RB Reconfig and local configuration. Mismatch in TFCI exixtence, fixed flexible position, and the secondary scrambling code.
Summary of change	Changed the following **from** c_DL_CommonInformationDCH_DPCH_Offset (tsc_DL_DPCH1_SFP_64k_PS) **to** c_DL_CommonInformationRB_SetUpDPCH_Offset (tsc_DL_DPCH1_SFP_64k_PS). Changed the following **from** c_DL_InfoPerRL_DPCH_Offset (p_PrimaryScramblingCode, tsc_DL_DPCH_ScrC_2, tsc_DL_DPCH1_ChC_64k_PS) **to** c_DL_InformationPerRL (p_PrimaryScramblingCode, tsc_DL_DPCH1_ChC_64k_PS, tsc_DL_DPCH1_2ndScrC)
Source of change	new change
Label	WA#RRC4047
ETSI comment	Rejected c_DL_CommonInformationDCH_DPCH_Offset is identical with c_DL_CommonInformationRB_SetUpDPCH_Offset, so no need to change. One of the two should be canceled! Moreover, c_DL_InfoPerRL_DPCH_Offset is equal to c_DL_InformationPerRL, just scramblingCodeChange is set to 'noCodeChange' instead of OMIT, which is correct. So no reason for change. Concerning the parameters, tsc_DL_DPCH_ScrC_2 (=2) is asked to be replaced by tsc_DL_DPCH1_2ndScrC(=1), which is incorrect according to 34.108 cl. 9.1.1 case A4.
R&S conclusion	Accepted according to the cl 9.1.1. but the variable tcv_TmpCellInfo.dl_DPCH_2ndScrCode is not assigned to the value 2. So this value must be assigned before the local configuration OK in V330a implementation

ASN.1 PDU Constraint Declaration

Constraint Name:	cbs_108_RB_ReconfigFACH_ToDCH {
	p_IntegrityInfo : IntegrityCheckInfo ;
	p_RRC_TI: RRC_TransactionIdentifier;
	p_FreqInfo: FrequencyInfo;
	p_PrimaryScramblingCode : PrimaryScramblingCode;
	p_UL_ScramblingCode : UL_ScramblingCode
	}

Group:	
PDU Name:	DL_DCCH_Message
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	Defined in TS 34.123-1 annex A condition A.4 (WRRC 4047

Constraint Value

```
{
 integrityCheckInfo p_IntegrityInfo ,
 message radioBearerReconfiguration : r3 : {
  radioBearerReconfiguration_r3{
   rrc_TransactionIdentifier p_RRC_TI,
   integrityProtectionModeInfo OMIT,
   ciphheringModeInfo OMIT,
   activationTime OMIT,
   new_U_RNTI OMIT,
   new_C_RNTI OMIT,
   rrc_StateIndicator cell_DCH,
   utran_DRX_CycleLengthCoeff OMIT,
   cn_InformationInfo OMIT,
   ura_Identity OMIT,
   rab_InformationReconfigList OMIT,
   rb_InformationReconfigList c_RB_InfoReconfigList20,
   rb_InformationAffectedList OMIT,
   ul_CommonTransChInfo c_UL_CommTrChInfoDCH_PS_64k,
   ul_deletedTransChInfoList OMIT,
   ul_AddReconfTransChInfoList c_UL_AddReconfTransChInfoListFACH_ToDCH,
   modeSpecificTransChInfo fdd{
    cpch_SetID OMIT,
    addReconfTransChDRAC_Info OMIT
   },
   dl_CommonTransChInfo c_DL_CommonTransChInfoDCH { c_TFCS_Compl8_1_2_3_4_5_6_7_8_9_R9 },
   dl_DeletedTransChInfoList OMIT,
   dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoListFACH_ToDCH,
   frequencyInfo p_FreqInfo,
   maxAllowedUL_TX_Power tsc_MaxAllowPwr,
   ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_Info { tsc_UL_DPDCH_SF_64k_PS, sID_96 , p_UL_ScramblingCode },
   modeSpecificPhyChInfo fdd{
    dl_PDSCH_Information OMIT
   },
   dl_CommonInformation c_DL_CommonInformationRB_SetUpDPCH_Offset { tsc_DL_DPCH1_SPP_64k_PS },
   dl_InformationPerRL_List c_DL_InformationPerRL { p_PrimaryScramblingCode, tsc_DL_DPCH1_ChC_64k_PS, tsc_DL_DPCH1_2ndSpC }
  },
  criticalExtensions {
   radioBearerReconfiguration_v3a0ext { new_DSCH_RNTI OMIT },
   nonCriticalExtensions OMIT
  }
 }
}
```

Detailed Comment:

5 Branches executed in test case 8.2.2.10

The test case was executed in PS mode with Integrity activated and Ciphering disabled.

6 Execution Log Files

6.1 Nokia 3G UE 6650

The Nokia 3G UE 6650 passed this test case on the Rohde & Schwarz 3G System Simulator CRTU-W. The documentation below is enclosed as evidence of the successful test case run [1]:

- **Execution log files 8_2_2_10-Logs\PS\Index.html**
  This execution log files in HTML format show the dynamic behaviour of the test in a tabular view and in message sequence chart (MSC) view. All message contents are fully decoded and listed in hexadecimal format. Preliminary verdicts and the final test case verdict are listed in the log file.

- **PICS/PIXIT file 8_2_2_10-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for CS/PS testing.

7 References

[1] **T1-031006**
This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

**3GPP TSG-T1~~/SIC~~ Meeting #21~~019~~ *T1~~S~~* ⌘*~~03xxxx~~031288~~0968xxxxxx030916xxxxx0304~~*
Budapest, Hungary, 3rd – 7th November 2003~~Munich, Germany 28 July-1August 2003Seoul, Korea, 12-15 May 2003~~**

CR-Form-v7

CHANGE REQUEST SUMMARY

⌘	~~RRC ATS~~TS 34.123-3	CR	~~*0306024 6803xxx xxx15*~~	⌘rev	~~1~~	⌘	Current version:	3.21.1~~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 ☐

Title:	⌘	Test Case 12.5~~8.2.1.10~~
Source:	⌘	Anritsu Ltd
Work item code:	⌘	
Date:	⌘	~~17~~15~~23xx24~~/09~~73~~/2003
Category:	⌘	**F**
Release:	⌘	R99

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:	⌘	To introduce test case ~~8.2.1.10~~ 12.5 to RRCv32~~1~~10~~0~~
Summary of change:	⌘	- 0 table(s) deleted from NASv321~~0~~ - ~~1~~0~~00~~ table(s) modified in NASv321~~0~~ - 23~~649~~ new table(s) added from iWD-TVB2002-03_D03wk24 from which - 1 table modified~~????? iWD-TRv311_WK20 of which~~ ~~- 14 table(s) have been modified40110- 0 table(s) deleted from RRCv32~~10 ~~- 415 table(s) modified in RRCv32~~10 ~~- 12 table(s) added from RRCv143 of which~~ ~~- 1 table(s) have been modified~~ ~~- 1~~6 new table(s) added ~~to RRCv320~~ For more details see below.
Consequences if not approved:	⌘	Test case ~~8.2.1.10~~ 12.5 will not be added

Clauses affected:	⌘	N/A

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

Other comments: ⌘ This document supersedes T1-030968.

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.

Anritsu

ANRITSU LIMITED

TSG-T Working Group1 SWG SIG E-mail Approval

T1-0031288~~0968xxxxxx320(8.2.1.0916xxxxx10)0464~~

Budapest, Hungary~~Luton, UKSeoul, Korea~~ **3rd – 7th November 2003**~~12-15 May 2003 24/3/2003~~

Title	~~Changes to TC~~ Introducing test case 12.5~~8. 2 . 1. 10~~ required ~~for approval~~to NAS ~~RRC~~v321~~1~~0
Source	Anritsu
Agenda Item	N/A
Document for	Approval
Contact	Dan Fox (Anritsu) dan.fox@eu.anritsu.com Tel: +44 1582 433357

Table Of Contents

1 Overview

- This document details the changes needed introduce test case 12.58.2.4.10 to NASRRCv32109 by using NASRRCv321 as the primary source of the new tables and applying only essential fixes to the TTCN.

- This document details the changes needed to introduce test case 12.58.2.4.10 in to NASRRCv32109. Only essential fixes to the TTCN are applied. The reference prose specification used is TS 34.123-1 (V5.4.0) with the following path covered:-

Domain: PPS
Integrity: Enabled
Ciphering: DisabledThis document details the changes needed introduce test case 8.2.4.10to RRCv320 by using RRCv320 as the primary source of the new tables and applying only essential fixes to the TTCN. This document details the changes needed to introduce TC _8._2._1._10 to RRCv310. With these changes applied the test case can be demonstrated to run on a single UE implementation. Only essential fixes to the TTCN are applied. This test case has the full test coverage intended in its prose specification TS 34.123-1 (V5.2.0) clause 8.2.1.10.

2 Changes required for test-case 8.2.1.8 8.2.12.51.10

2.1 Tables modified in NASRRCv321

cs_RRC_PagingType1_ModifySI

Reason for change

Paging_Type_1 contains Incorrect bcch_ModificationTime value (i.e. zero implies SFN=0 therefore UE shall not reply until SFN is zero) . **Worst case scenario transcribe to approx. 41 seconds before SIB re-acqusition can be completed, therefore if it is not implemented - will cause most of the exsiting SIB modification test steps to fail.**

Summary of Change
Change value zero to OMIT as follows:

Change the PDU constrain from:

Constraint Name	cs_RRC_PagingType1_ModifySI(p_mib_valuetag: MIB_ValueTag)
PDU Type	PCCH_Message
Derivation Path	
Encoding Variation	
Comments	

{
message pagingType1: { --PagingType1
pagingRecordList OMIT,
bcch_ModificationInfo {
mib_ValueTag p_mib_valuetag,
bcch_ModificationTime 0
},
nonCriticalExtensions OMIT
}
}	

To:

Constraint Name	cs_RRC_PagingType1_ModifySI(p_mib_valuetag: MIB_ValueTag)
PDU Type	PCCH_Message
Derivation Path	
Encoding Variation	

Comments	

{
message pagingType1: { --PagingType1
pagingRecordList OMIT,
bcch_ModificationInfo {
mib_ValueTag p_mib_valuetag,
bcch_ModificationTime OMIT
},
nonCriticalExtensions OMIT
}
}	

None

None.

2.2 Tables added to NASRRCv321

2.2.1 Tables added from iWD-TVB2002-03_D03wk24

- tsc_PTMSI_Sig3

tsc_PTMSI_Sig3
tc_12_5
ts_RegistrationOnCS_IfOpModeA
ts_RegistrationOnCS
cs_LocUpdAcpTMSI_2
c_MobileIdTMSILoc
ts_GMM_PagingResp
ts_GMM_HandleAttachRequest
t_UpperBound
cs_PTMSI_ReallocCmd
PTMSI_REALLOCATION_COMMAND
PTMSI_REALLOCATION_COMPLETE
cr_PTMSI_ReallocComplete
ts_GMM_StartIntegrityProtection
tsc_PTMSI_Sig3

- PTMSI_REALLOCATION_COMMAND
- PTMSI_REALLOCATION_COMPLETE

PTMSI_REALLOCATION_COMMAND
PTMSI_REALLOCATION_COMPLETE

- cr_PTMSI_ReallocComplete
- cs_PTMSI_ReallocCmd
- ts_GMM_PagingResp

cr_PTMSI_ReallocComplete
cs_PTMSI_ReallocCmd
ts_GMM_PagingResp
Supplied by Bosco Choi
c_DCH_336_TFS_40_TC
c_DCH_336_TFS_40_TC_UE
c_DL_InfoPerRL_DPCH_OffsetNoScrChange
c_TFCS_Cmpl0_To9_Rx
c_TFCS_Cmpl0_To9_Tx
c_TrCHInfo_DL_2_0To9
c_TrCHInfo_UL_2_0To9
c_TrLogMappingDL_2_PS
c_TrLogMappingUL_2_PS
ca_2Dch0To9_UL_InfoActNow
car_RB_ReconfCmpl
cas_TrChReconf
cbs_108_TrChReconf64k_PS_FACH_ToDCH

cds_TrChReconfFACH_ToDCH_NewRate
cr_108_TrChReconfCmpl
c_DCH_336_TFS_23_DL_40_TC
c_DCH_336_TFS_40_TC
c_DCH_336_TFS_40_TC_UE
c_DL_InfoPerRL_DPCH_OffsetNoScrChange
c_TFCS_Cmpl0_To9_Rx
c_TFCS_Cmpl0_To9_Tx
c_TrCHInfo_DL_2_0To9
c_TrCHInfo_UL_2_0To9
c_TrLogMappingDL_2_PS
c_TrLogMappingUL_2_PS
ca_2Dch0To9_DL_Info
ca_2Dch0To9_UL_InfoActNow
car_RB_ReconfCmpl
cas_TrChReconf
cbs_108_TrChReconf64k_PS_FACH_ToDCH
cds_TrChReconfFACH_ToDCH_NewRate
cr_108_TrChReconfCmpl
tc_8_2_4_10
ts_RRC_ReceiveTrChReconfCmpl
ts_SS_ReConfFACH_ToDCH_32kbpsPS
tsc_DL_DPCH_ScrC_4
tsc_Sf32
tsc_Sfd64

2.2.2 New tables added

ca_2Dch0To9_DL_InfoActNow

This table is not based on one in any existing ATS

Reason for change
Activation time is not required for Cell_FACH to Cell_DCH transition state. Therefore a new constraint is introduced

Summary of Change
Table added to suite.

Constraint Name	ca_2Dch0To9_DL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_DchTFS1 ; p_DchTFS5 : CommonOrDedicatedTFS ;p_PowerOffsetInformation:PowerOffsetInformation)
ASP Type	CPHY_TrCH_Config_REQ
Derivation Path	
Comments	

None

2.3 Modifications to tables added from iWD-TVB2002-03_D03wk24

2.3.1 tc_12_5ts_SS_ReConfFACH_ToDCH_32kbpsPS

Reason for change
The existing test casestep has been modified as follows:
Line 11 – inconsistent downlink radio link configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure the radio link according to to the Transport Channel Reconfiguration PDU. See clause 2.3.1.

Line 13 - inconsistent downlink transport channel re-configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure the transport channel according to to the Transport Channel Reconfiguration PDU. Activation time can not be used for the Cell_FACH to Cell_DCH transition. (Note: - It is however, inconsistent wr.r.t. the uplink TrCH see line 19)

~~Line 15 – inconsistent downlink CMAC configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure CMAC according to to the Transport Channel Reconfiguration PDU.~~

~~Line 17 – inconsistent uplink radio link configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure the radio link according to to the Transport Channel Reconfiguration PDU.~~

~~Line 19 - inconsistent uplink transport channel re-configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure the transport channel according to to the Transport Channel Reconfiguration PDU. Activation time can not be used for the Cell_FACH to Cell_DCH transition. (Note: - It is however, inconsistent wr.r.t. the uplink TrCH see line 19)~~

- Line 1~~21~~ – Extended ~~over all~~ guard time (t_Guard) to 10 minutes ~~inco~~ ~~(see modified table line 1)~~

  ~~MCC 160>> Accepted.~~

- Line 6 – Prose indicates the test case is a PS Attach only test , therefore MM - Location Updating procedure is not required after the preamble. Modifed the SIB broadcast to set ATT to zero (see modified table line 6 to 9)

- Line 15 – lt_TestBody - Since the MM - Location Updating procedure is no longer required all the corresponding test steps and tcv assignments are to be removed or replaced as appropiate shown as below:

  - Line 16 – Replaced ts_MMI_UE_SwitchOn by ts_MMI_UE_SwitchOff, lt_Wait_10s and ts_MMI_UE_SwitchOnTriggerGMM_Attach respectively as the UE is required to switched off for 10 second prior to the GMM attach prompt after Mode operation has been executed. Note that ts_MMI_UE_SwitchOff and lt_Wait_10s are inserted in the preamble once for each UE mode of operation (see modified table line 12,13 and 18,19)

  Line 18 and 19 – Assignment of the GMM_AttachExpect etc. and CS registration step are no longer needed

  -

  ~~MCC 160>> In Munich meeting, it was agreed, that the default value of ATT Flag shall be made as 'off' in GMM test cases. Hence accepted.~~

  ~~Line 15 – lt_TestBody - Since the MM - Location Updating procedure is no longer required all the corresponding test steps and tcv assignments are to be removed or replaced as appropiate shown as below:~~

  ~~Line 16 – Replaced by ts_MMI_UE_SwitchOn by ts_MMI_UE_SwitchOff, lt_Wait_10s and ts_MMI_UE_SwitchOnTriggerGMM_Attach respectively as the UE is required to switched off for 10 second prior to the GMM attach prompt after Mode operation has been executed. (see modified table line 20 to 22)~~

  ~~MCC 160>> accepted, but switch off and wait shall be done before entering the test body in Preamble.~~

  ~~Line 18 and 19 – Assignment of the GMM_AttachExpect etc. and CS registration step are no longer needed~~

  ~~MCC 160>> Accepted~~

  ~~Line 22 - ts_GMM_DetachOnSwitchOff is replaced by lt_GMM_DetachOnSwitchOff which only handles the PS only - GMM Power off Detach (see modified table line 26 and line 52 to 57)~~

  ~~MCC 160>> Not required as the step already caters for this, based on ATT flag~~

~~Line 24 - ts_MMI_UE_SwitchOn is replaced ts_MMI_UE_SwitchOnTriggerGMM_Attach (see modified table line 28)~~

~~MCC 160>> Accepted~~

~~Line 26 and 27 – Assignment of the GMM_AttachExpect etc. and CS registration step are no longer needed~~

~~MCC 160>> Accepted~~

- Line 24 - ts_MMI_UE_SwitchOn is replaced ts_MMI_UE_SwitchOnTriggerGMM_Attach (see modified table line 28)

- Line 26 and 27 – Assignment of the GMM_AttachExpect etc. and CS registration step are no longer needed

- Line 29 – Missing (tcv_CN_Domain := ps_domain) assignment which is needed for subsequent PS paging procedure to work. ts_GMM_PagingType1_PTMSI is replaced by ts_RRC_ConnEst_DCH_MT_PTMSI as the later test step contains all the rrcConnection etablsihment procedure as required prior to the transmission of Paging Type 1 PDU since the rrcConnection has been torn down prior to the exit of the test step lt_Attach_Steps_12To13

~~Line 29 – Missing (tcv_CN_Domain := ps_domain) assignment which is needed for subsequent PS paging procedure to work. ts_GMM_PagingType1_PTMSI is replaced by ts_RRC_ConnEst_DCH_MT_PTMSI as the later test step contains all the rrcConnection etablsihment procedure as required prior to the transmission of Paging Type 1 PDU since the rrcConnection has been torn down prior to the exit of the test step lt_Attach_Steps_12To13~~

~~MCC 160 >> Accepted~~

~~Line 31 - ts_GMM_DetachOnSwitchOff is replaced by lt_GMM_DetachOnSwitchOff which only handles the PS only - GMM Power off Detach and ts_RRC_ConnRel (see modified table line 34 & 35)~~

~~MCC 160>> the existing test step caters this already, but in test step missing RRC connection release will be added.~~

~~Note:- rrcConnection must be released before the execution of lt_GMM_DetachOnSwitchOff~~

- Line 32 - lt_Attach_Steps_3To5 - ts_GMM_HandleAttachRequest is simply replaced by the reception of the of GMM Attach Request PDU (see modified table line 36)

~~MCC 160 >> accepted~~

- Line 37 – Missing assignment tcv_Assigned_PTMSI_Sig := px_PTMSI_Sig2 (see modified table line 41)

~~MCC 160 >> accepted~~

- Line 40 - lt_Attach_Steps_12To13 – ts_GMM_HandleAttachRequest is simply replaced by the reception of the of GMM Attach Request PDU (see modified table line 44)

~~MCC 160 >> Accepted~~

Note:- PTMSI signature is to be omitted after GMM Power off Detach

~~MCC 160 >> Accepted~~

- Line 42 - ts_GMM_StartIntegrityProtection replaced by ts_GMM_AuthenticateAndStartIntegrityProtection (see modified table line 46)

~~MCC 160 >> accepted, requirement from Prose.~~

- Line 43 - Missing assignment tcv_Assigned_PTMSI_Sig := px_PTMSI_Sig3 (see modified table line 47)

~~MCC 160 >> Accepted, wrong assignment~~
~~nsistent uplink CMAC configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure CMAC according to to the Transport Channel Reconfiguration PDU.~~
From:

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard(300)			
2		+ts_InitVariables			
3		(tcv_CellInfoA.nmo := tsc_NMO_II)			Test case specific cell settings
4		+ts_GMM_Config_CellA			Configure cell A and cell B
5		+ts_GMM_AttachReject(tsc_CellA)			Inalidate P-TMSI and other USIM parameters
6		[px_SupportOpModeC]			If operation mode C supported
7		+ts_MMI_SetOpModeC			Set UE in operation mode C
8		+lt_TestBody			
9		+po_ConnectionAndSS_Rels			
10		[(NOT px_SupportOpModeC) AND pc_SupportOpModeA]			If operation mode C is not supported but operation mode A is supported
11		+ts_MMI_SetOpModeA			Set UE in operation mode A
12		+lt_TestBody			
13		+po_ConnectionAndSS_Rels			
14		[TRUE]		I	
		lt_TestBody			
15		(tcv_TestBody := TRUE)		(P)	
16		+ts_MMI_UE_SwitchOn			
17		+ts_RRC_ConnEst(tsc_CellA, est_Reg, registration)			
18		(tcv_GMM_AttachExpect := TRUE, tcv_GMM_AttachRec := FALSE)			Flags used by NAS default handler
19		+ts_RegistrationOnCS_IfOpModeA (tsc_CellA, px_TMSI_Def)			
20		+lt_Attach_Steps_3To5			
21		+lt_Realloc_Steps_6To7			
22		+ts_GMM_DetachOnSwitchOff (tsc_CellA)			Steps 8 to 9
23		+lt_Wait_10s			Step 10
24		+ts_MMI_UE_SwitchOn			
25		+ts_RRC_ConnEst(tsc_CellA, est_Reg, registration)			
26		(tcv_GMM_AttachExpect := TRUE, tcv_GMM_AttachRec := FALSE)			Flags used by NAS default handler
27		+ts_RegistrationOnCS_IfOpModeA (tsc_CellA, px_TMSI_Def)			
28		+lt_Attach_Steps_12To13			
29		+ts_GMM_PagingType1_PTMSI(tsc_CellA, terminatingInteractiveCall, px_PTMSI_2)			Step 14, Page UE with assigned P-TMSI-2
30		+ts_GMM_PagingResp (tsc_CellA)			Steps 15 to 20 SERVICE REQUEST including service type 'paging response'
31		+ts_GMM_DetachOnSwitchOff (tsc_CellA)			Step 21 to 22
		lt_Attach_Steps_3To5			

32		+ts_GMM_HandleAttachRequest (c_GMM_AttachTypePS_Only, c_MobileIdIMSI_lv, ?, -, tcv_PS_KeySeq)			Step 3. ATTACH REQUEST - Attach type is 'PS attach' - MobileId is IMSI
33		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
34		+ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellA)			
35		Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(c_GMM_AttachResultPS_Only, c_RAI_Def_v, c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), -))		Step 4. ATTACH ACCEPT - Attach result 'PS only' - RAI-1 - P-TMSI-1 - P-TMSI signature 1
36		Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachComplete)		ATTACH COMPLETE (Note: RRC connection is not yet released, it is needed for steps 6 and 7)
		It_Realloc_Steps_6To7			
37		Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_2)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_PTMSI_ReallocCmd (c_MobileIdPTMSI_lv (px_PTMSI_2), c_RAI_Def_v, c_PTMSI_Signature (px_PTMSI_Sig2)))		Step 6. P-TMSI REALLOCATION COMMAND - P-TMSI-2 - P-TMSI-2 signature
38		Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_PTMSI_ReallocComplete)		Step 7. P-TMSI REALLOCATION COMPLETE
39		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
		It_Attach_Steps_12To13			
40		+ts_GMM_HandleAttachRequest (c_GMM_AttachTypePS_Only, (c_MobileIdPTMSI_lv (px_PTMSI_2)), c_RAI_Def_v, (c_PTMSI_Signature (px_PTMSI_Sig2)), tcv_PS_KeySeq)			Step 11. ATTACH REQUEST - Attach type is 'PS attach' - MobileId P-TMSI-2 - RAI-1 - PTMSI-2 signature
41		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
42		+ts_GMM_StartIntegrityProtection (tsc_CellA)			
43		Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(c_GMM_AttachResultPS_Only, c_RAI_Def_v, c_PTMSI_Signature (tsc_PTMSI_Sig3), -, -))		Step 12. ATTACH ACCEPT - Attach result 'PS only' - RAI-1 - P-TMSI signature 3 - no new mobile id
44		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
		It_Wait_10s			
45		START t_WaitMS(10000)			Start a timer with timeout 10s
46		TM ? OTHERWISE		(F)	UE shall not access the network
47		? TIMEOUT t_WaitMS		(P)	

To:

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments

1		START t_Guard(600)			START t_Guard(300)
2		+ts_InitVariables			
3		(tcv_CellInfoA.nmo := tsc_NMO_II)			Test case specific cell settings
4		+ts_GMM_Config_CellA			Configure cell A and cell B
5		+ts_GMM_AttachReject(tsc_CellA)			Inalidate P-TMSI and other USIM parameters
6		tcv_CellInfoA.attFlag := 0)			
7		+ts_SysInfoModifyMM(tsc_CellA, tcv_CellInfoA.mcc, tcv_CellInfoA.mnc, tcv_CellInfoA.lac, tcv_CellInfoA.attFlag, tcv_CellInfoA.t3212, tcv_CellInfoA.rac, tcv_CellInfoA.nmo)			Modify SIB1 to set ATT flag to 0 (disable CS registration at turn on, CR T1-030101, Jan-03)
8		START t_Dly (5000)			NRT need to allow UE to read SIBs
9		?TIMEOUT t_Dly			NRT as above
10		[px_SupportOpModeC]			If operation mode C supported
11		+ts_MMI_SetOpModeC			Set UE in operation mode C
12		+ts_MMI_UE_SwitchOff			
13		+lt_Wait_10s			
142		+lt_TestBody			
153		+po_ConnectionAndSS_Rels			
164		[(NOT px_SupportOpModeC) AND pc_SupportOpModeA]			If operation mode C is not supported but operation mode A is supported
175		+ts_MMI_SetOpModeA			Set UE in operation mode A
18		+ts_MMI_UE_SwitchOff			
19		+lt_Wait_10s			
206		+lt_TestBody			
217		+po_ConnectionAndSS_Rels			
228		[TRUE]		I	
		lt_TestBody			
239	TBP1	(tcv_TestBody := TRUE)		(P)	
242		+ts_MMI_UE_SwitchOnTriggerGMM_Attach			Test step +ts_MMI_UE_SwitchOn can not be used here since the ATT flag is now set to zero No locationUpdating PDU shall be expected unless an ATTACH REQUEST is intiated either automatic or manually nothing shall happed
253		+ts_RRC_ConnEst(tsc_CellA, est_Req, registration)			
264		+lt_Attach_Steps_3To5			Steps 4 to 5
275		+lt_Realloc_Steps_6To7			Steps 6 to 7

286		+ts_GMM_DetachOnSwitchOff (tsc_CellA) +lt_GMM_DetachOnSwitchOff			Steps 8 +ts_GMM_DetachOnSwitchOff (tsc_CellA)
297		+lt_Wait_10s			Step 10
302 8		+ts_MMI_UE_SwitchOnTriggerGMM_Attach			+ts_MMI_UE_SwitchOnTriggerGMM_Attach
312 9		+ts_RRC_ConnEst (tsc_CellA, est_Reg, registration)			
320		+lt_Attach_Steps_12To13			Steps 12 to 13
331		(tcv_CN_Domain := ps_domain)			
342		+ts_RRC_ConnEst_DCH_MT_PTMSI(tsc_CellA, terminatingInteractiveCall, o_ConvertPTMSI(px_PTMSI_2), terminatingInteractiveCall)			Step 14. Page UE with assigned P-TMSI-2 +ts_GMM_PagingType1_PTMSI(tsc_CellA, terminatingInteractiveCall, px_PTMSI_2)
353		+ts_GMM_PagingResp (tsc_CellA)			Steps 15 to 20 SERVICE REQUEST including service type 'paging response'
364		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
375		+ts_GMM_DetachOnSwitchOff (tsc_CellA) +lt_GMM_DetachOnSwitchOff			Step 21
		lt_Attach_Steps_3To5			
386		Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdIMSI_lv, ?, -, tcv_PS_KeySeq))		Step 3. ATTACH REQUEST - Attach type is 'PS attach' - MobileId is IMSI +ts_GMM_HandleAttachRequest (c_GMM_AttachTypePS_Only_No_FollowOn, c_MobileIdIMSI_lv, ?, -, tcv_PS_KeySeq)
397		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
403 8		+ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellA)			
413 9		Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_Def, tcv_Assigned_PTMSI_Sig := px_PTMSI_SigDef)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(c_GMM_AttachResultPS_Only, c_RAI_Def_v, c_PTMSI_Signature (px_PTMSI_SigDef), c_MobileIdPTMSI (px_PTMSI_Def), -))		Step 4. ATTACH ACCEPT - Attach result 'PS only' - RAI-1 - P-TMSI-1 - P-TMSI signature 1
420	TBP2	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachComplete)	(P)	ATTACH COMPLETE (Note: RRC connection is not yet released, it is needed for steps 6 and 7)
		lt_Realloc_Steps_6To7			
431		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3,		Step 6. P-TMSI REALLOCATION

		(tcv_AssignedPTMSI := px_PTMSI_2, tcv_Assigned_PTMSI_Sig := px_PTMSI_Sig2)	cs_PTMSI_ReallocCmd (c_MobileIdPTMSI_lv (px_PTMSI_2), c_RAI_Def_v, c_PTMSI_Signature (px_PTMSI_Sig2)))		COMMAND - P-TMSI-2 - P-TMSI-2 signature
442	TBP3	Dc ? RRC_DataInd	car_PS_UplinkDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_PTMSI_ReallocComplete)	(P)	Step 7. P-TMSI REALLOCATION COMPLETE
453		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
		It_Attach_Steps_12To13			
464		Dc ? RRC_DataInd (tcv_Start := RRC_DataInd.start)	car_PS_InitDirectTransfer(tsc_CellDedicated, tsc_RB3, cr_AttachReq (c_GMM_AttachTypePS_Only, c_MobileIdPTMSI_lv (px_PTMSI_2), c_RAI_Def_v, OMIT, tcv_PS_KeySeq))		Step 11. ATTACH REQUEST - Attach type is 'PS attach' - MobileId P-TMSI-2 - RAI-1 - PTMSI-2 signature +ts_GMM_HandleAttachRequest (c_GMM_AttachTypePS_Only, (c_MobileIdPTMSI_lv (px_PTMSI_2)), c_RAI_Def_v, (c_PTMSI_Signature (px_PTMSI_Sig2)), tcv_PS_KeySeq)
475		+ ts_SS_SecurityDownloadStart (ps_domain, tcv_Start)			
486		+ts_GMM_AuthenticateAndStartIntegrityProtection (tsc_CellA)			+ts_GMM_StartIntegrityProtection (tsc_CellA)
497		Dc ! RRC_DataReq (tcv_AssignedPTMSI := px_PTMSI_2, tcv_Assigned_PTMSI_Sig := tsc_PTMSI_Sig3)	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_AttachAcc(c_GMM_AttachResultPS_Only, c_RAI_Def_v, c_PTMSI_Signature (tsc_PTMSI_Sig3), -, -))		Step 12. ATTACH ACCEPT - Attach result 'PS only' - RAI-1 - P-TMSI signature 3 - no new mobile id
504		+ts_RRC_ConnRel(tsc_CellA, cell_Dch)			
		It_Wait_10s			
514		START t_WaitMS(10000)			Start a timer with timeout 10s
520		TM ? OTHERWISE		(F)	UE shall not access the network
531		? TIMEOUT t_WaitMS		(P)	Timer expired, OK

~~c_TrCHInfo_DL_2_0To9~~
~~Reason for change~~
~~The Transport channel mapping is inconsistent w.r.t. the similar constraint of radio bearer setup and radio bearer re-configuration etc.~~

~~Summary of Change~~
~~Update the constraint as follows.~~
~~Change the Constraint Declaration from:~~

~~Constraint Name~~	~~c_TrCHInfo_DL_2_0To9 (p_DchTFS5 , p_DchTFS1 : CommonOrDedicatedTFS ;p_PowerOffsetInformation :PowerOffsetInformation)~~
~~ASN1 Type~~	~~TrCHInfo~~
~~Derivation Path~~	

Encoding Variation	
Comments	
{ dlconnectedTrCHList {{ trchid tsc_DL_DCH5, transportChannelInfo p_DchTFS5 }, { trchid tsc_DL_DCH1, transportChannelInfo p_DchTFS1 }}, dlTFCS c_TFCS_Cmpl0_To9_Tx (p_PowerOffsetInformation) }	

To:

Constraint Name	c_TrCHInfo_DL_2_0To9 (p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS ;p_PowerOffsetInformation :PowerOffsetInformation)
ASN1 Type	TrCHInfo
Derivation Path	
Comments	
{ dlconnectedTrCHList {{ trchid tsc_DL_DCH1, transportChannelInfo p_DchTFS1 }, { trchid tsc_DL_DCH5, transportChannelInfo p_DchTFS5 }}, dlTFCS c_TFCS_Cmpl0_To9_Tx (p_PowerOffsetInformation) }	

c_TrCHInfo_UL_2_0To9

Reason for change
The Transport channel mapping is inconsistent w.r.t. the similar constraint of radio bearer setup and radio bearer re-configuration etc.

Summary of Change
Update the constraint as follows.

Change the Constraint Declaration from:

Constraint Name	c_TrCHInfo_UL_2_0To9 (p_DchTFS5 , p_DchTFS1 : CommonOrDedicatedTFS)
ASN1 Type	TrCHInfo
Derivation Path	
Encoding Variation	
Comments	
{ ulconnectedTrCHList {{ trchid tsc_UL_DCH5, transportChannelInfo p_DchTFS5 }, { trchid tsc_UL_DCH1, transportChannelInfo p_DchTFS1 }}, ulTFCS c_TFCS_Cmpl0_To9_Rx }	

To:

Constraint Name	c_TrCHInfo_UL_2_0To9 (p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS)
ASN1 Type	TrCHInfo

Derivation Path	
Comments	
{ ulconnectedTrCHList {{ trchid tsc_UL_DCH1, transportChannelInfo p_DchTFS1 }, { trchid tsc_UL_DCH5, transportChannelInfo p_DchTFS5 }}, ulTFCS c_TFCS_Cmpl0_To9_Rx }	

ca_2Dch0To9_UL_InfoActNow

Reason for change
The Transport channel mapping is inconsistent w.r.t. the similar constraint of radio bearer setup and radio bearer re-configuration etc.

Summary of Change
Update the constraint as follows.

Change the Constraint Declaration from:

Constraint Name	ca_2Dch0To9_UL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_DchTFS5 , p_DchTFS1 : CommonOrDedicatedTFS)
ASP Type	CPHY_TrCH_Config_REQ
Derivation Path	
Comments	
{ cellId p_CellId, routingInfo physicalChannelIdentity: p_PhyChId, ratType fdd, configMessage { activationTime activateNow : NULL, ulconnectedTrCHList {{ trchid tsc_UL_DCH5, ul_TransportChannelType dch, transportChannelInfo p_DchTFS5 }, { trchid tsc_UL_DCH1, ul_TransportChannelType dch, transportChannelInfo p_DchTFS1 }}, ulTFCS c_TFCS_Cmpl0_To9_Rx } }	

To:

Constraint Name	ca_2Dch0To9_UL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS)
ASP Type	CPHY_TrCH_Config_REQ
Derivation Path	
Comments	

```
{   cellId   p_CellId,
    routingInfo   physicalChannelIdentity:   p_PhyChId,
    ratType   fdd,
   configMessage
  {
   activationTime   activateNow   : NULL,
 ulconnectedTrCHList {{
    trchid   tsc_UL_DCH1
    ul_TransportChannelType   dch,
    transportChannelInfo   p_Dch1FS1
    },
   {
trchid   tsc_UL_DCH5,
ul_TransportChannelType   dch,
    transportChannelInfo   p_Dch1FS5
    }},
 ulTFCS
 c_TFCS_Cmpl0_To9_Rx

  }
 }
```

Tables deleted from RRCv3210

None

Tables modified in RRCv320

ts_SS_ReConfFACH_ToDCH_32kbpsPS

Reason for change

The existing test step has been modified as follows:

Line 11 – inconsistent downlink radio link configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure the radio link according to to the Transport Channel Reconfiguration PDU. See clause 2.3.1.

Line 13 - inconsistent downlink transport channel re-configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure the transport channel according to to the Transport Channel Reconfiguration PDU. Activation time can not be used for the Cell_FACH to Cell_DCH transition. (Note: - It is however, inconsistent wr.r.t. the uplink TrCH see line 19)

Line 15 – inconsistent downlink CMAC configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure CMAC according to to the Transport Channel Reconfiguration PDU.

Line 17 – inconsistent uplink radio link configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure the radio link according to to the Transport Channel Reconfiguration PDU.

Line 19 - inconsistent uplink transport channel re-configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure the transport channel according to to the Transport Channel Reconfiguration PDU. Activation time can not be used for the Cell_FACH to Cell_DCH transition. (Note: - It is however, inconsistent wr.r.t. the uplink TrCH see line 19)

Line 21 – inconsistent uplink CMAC configuration w.r.t. to the Transport Channel Reconfiguration PDU. Configure CMAC according to to the Transport Channel Reconfiguration PDU.

From:

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	-	+ ts_SetTmpCellInfo (p_CellId)	-	-	-
2	-	[px_RAT = fdd]	-	-	-
3	-	+ lt_ReconfFACH_PRACH	-	-	-
4	-	+ lt_ConfigDPCH	-	-	-

5		+ ts_SetCellCfg (p_CellId , cell_DCH_64kPS_RAB_SRB)			
6	ERR1	[px_RAT = tdd]			
		lt_ReconfFACH_PRACH			
7		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId, tsc_S_CCPCH1, c_UE_Info (tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), c_TrChInfoPCH_FACH, c_TrLogMappingPCH_FACH_CellDCH)		map PCCH to PCH + Map CCCH to FACH
8		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId, tsc_S_CCPCH1)		
9		CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_CellId, tsc_PRACH1, c_UE_Info (tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), cb_TrChInfoRACH1, cb_TrLogMappingRACH2)		mapping CCCH to RACH
10		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_CellId, tsc_PRACH1)		
		lt_ConfigDPCH			
11		CPHY!CPHY_RL_Setup_REQ	ca_DL_DPCH_Info (p_CellId, tsc_DL_DPCH1, cb_DL_DPCH_64K_PS_DPCH_Offset (c_DL_CommonInformationRB_SetUpDPCH_Offset (tsc_Sfd64), tcv_TmpCellInfo.dl_DPCH_2ndScrCode))		
12		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_DL_DPCH1)		
13		CPHY!CPHY_TrCH_Config_REQ	ca_2Dch0To9_DL_Info (p_CellId, tsc_DL_DPCH1, c_DCH_148_TFS_DL, c_DCH_336_TFS_23_DL_40_TC, tcv_ActTime, c_PowerOffsetInfoBelow64k)		
14		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_DL_DPCH1)		
15		CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (tsc_CellDedicated, tsc_DL_DPCH1,c_UE_Info (tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), c_TrCHInfo_DL_2_0To9 (c_DCH_148_TFS_DL, c_DCH_336_TFS_40_TC,c_PowerOffsetInfoBelow64k), c_TrLogMappingDL_2_PS)		
16		CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_DL_DPCH1)		
17		CPHY!CPHY_RL_Setup_REQ	ca_UL_DPCH_Info (p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_Info (tsc_Sf32, p0_96, tcv_TmpCellInfo.uL_ScramblingCode))		
18		CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_UL_DPCH1)		
19		CPHY!CPHY_TrCH_Config_REQ	ca_2Dch0To9_UL_InfoActNow (p_CellId, tsc_UL_DPCH1, c_DCH_148_TFS_UL, c_DCH_336_TFS_40_TC)		
20		CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)		

21	-	CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), c_TrCHInfo_UL_2_0To9 (c_DCH_148_TFS_UL, c_DCH_336_TFS_40_TC), c_TrLogMappingUL_2_PS)	-	-
22	-	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)	-	-

To:

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1	-	+ ts_SetTmpCellInfo (p_Cell:d)	-	-	-
2	-	[px_RAT = fdd]	-	-	-
3	-	+ !t_ReconfFACH_PRACH	-	-	-
4	-	+ !t_ConfigDPCH	-	-	-
5	-	+ ts_SetCellCfg (p_Cell:d , cell_DCH_64kPS_RAB_SRB)	-	-	-
6	ERR1	[px_RAT = tdd]	-	I-	-
-	-	!t_ReconfFACH_PRACH	-	-	-
7	-	CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_Cell:d, tsc_S_CCPCH1, c_UE_Info (tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), c_TrChInfoPCH_FACH, c_TrLogMappingPCH_FACH_CellDCH)	-	map PCCH to PCH + Map CCCH to FACH
8	-	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_Cell:d, tsc_S_CCPCH1)	-	-
9	-	CMAC ! CMAC_Config_REQ	ca_CMAC_ReconfigInfoActNow (p_Cell:d, tsc_PRACH1, c_UE_Info (tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), cb_TrChInfoRACH1, cb_TrLogMappingRACH2)	-	mapping CCCH to RACH
10	-	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (p_Cell:d, tsc_PRACH1)	-	-
-	-	!t_ConfigDPCH	-	-	-
11	-	CPHY!CPHY_RL_Setup_REQ	ca_DL_DPCH_Info (p_Cell:d, tsc_DL_DPCH1, cb_DL_DPCH_64K_PS_DPCH_Offset (c_DL_CommonInformationRB_SetUpDPCH_Offset (tsc_DL_DPCH1_SFP_64k_PS), tcv_TmpCellInfo.dl_DPCH_2ndScrCode))	-	
12	-	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_Cell:d, tsc_DL_DPCH1)	-	-
13	-	CPHY!CPHY_TrCH_Config_REQ	ca_2Dch0To9_DL_InfoActNow (p_Cell:d, tsc_DL_DPCH1, c_DCH_336_TFS_40_TC, c_DCH_148_TFS_DL, c_PowerOffsetInfoBelow64k)	-	
14	-	CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_Cell:d, tsc_DL_DPCH1)	-	-
15	-	CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo(tsc_CellDedicated,	-	-

			tsc_DL_DPCH1, c_UE_Info (tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), c_TrCHInfo_DL_2_0To9 (c_DCH_336_TFS_40_TC, c_DCH_148_TFS_DL, c_PowerOffsetInfoBelow64k), c_TrLogMappingDL_2_PS)		
16	-	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_DL_DPCH1)	-	-
17	-	CPHY!CPHY_RL_Setup_REQ	ca_UL_DPCH_Info (p_CellId, tsc_UL_DPCH1, cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS, p!0_96, tcv_TmpCellInfo.uL_ScramblingCode))	-	
18	-	CPHY?CPHY_RL_Setup_CNF	ca_RL_SetupCnf (p_CellId, tsc_UL_DPCH1)	-	-
19	-	CPHY!CPHY_TrCH_Config_REQ	ca_2Dch0To9_UL_InfoActNow (p_CellId, tsc_UL_DPCH1, c_DCH_336_TFS_40_TC, c_DCH_148_TFS_UL)	-	-
20	-	CPHY?CPHY_TrCH_Config_CNF	ca_TrChCfgCnf (p_CellId, tsc_UL_DPCH1)	-	-
21	-	CMAC ! CMAC_Config_REQ	ca_CMAC_CfgInfo (tsc_CellDedicated, tsc_UL_DPCH1, c_UE_Info (tcv_TmpCellInfo.uRNTI, tcv_TmpCellInfo.cRNTI), c_TrCHInfo_UL_2_0To9 (c_DCH_336_TFS_40_TC, c_DCH_148_TFS_UL), c_TrLogMappingUL_2_PS)	-	-
22	-	CMAC ? CMAC_Config_CNF	ca_CMAC_CfgCnf (tsc_CellDedicated, tsc_UL_DPCH1)	-	-

Tables modified in RRCv310

c_TrCHInfo_DL_2_0To9

Reason for change
The Transport channel mapping is inconsistent w.r.t. the similar constraint of radio bearer setup and radio bearer re-configuration etc.

Summary of Change
Update the constraint as follows.

Change the Constraint Declaration from:

Constraint Name	c_TrCHInfo_DL_2_0To9 (p_DchTFS5 , p_DchTFS1 : CommonOrDedicatedTFS ;p_PowerOffsetInformation :PowerOffsetInformation)
ASN1 Type	TrCHInfo
Derivation Path	
Encoding Variation	
Comments	

```
{
dlconnectedTrCHList    {{
                    trchid          tsc_DL_DCH5,
                    transportChannelInfo          p_DchTFS5
                                    },
                                    {
                    trchid          tsc_DL_DCH1,
                    transportChannelInfo          p_DchTFS1
                                    }},
                dlTFCS              c_TFCS_Cmpl0_To9_Tx ( p_PowerOffsetInformation )

}
```

To:

Constraint Name	c_TrCHInfo_DL_2_0To9 (p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS ;p_PowerOffsetInformation :PowerOffsetInformation)
ASN1 Type	TrCHInfo
Derivation Path	
Comments	

```
{
dlconnectedTrCHList    {{
                    trchid          tsc_DL_DCH1,
                    transportChannelInfo          p_DchTFS1
                                    },
                                    {
                    trchid          tsc_DL_DCH5,
                    transportChannelInfo          p_DchTFS5
                                    }},
                dlTFCS              c_TFCS_Cmpl0_To9_Tx ( p_PowerOffsetInformation )

}
```

c_TrCHInfo_UL_2_0To9

Reason for change
The Transport channel mapping is inconsistent w.r.t. the similar constraint of radio bearer setup and radio bearer re-configuration etc.

Summary of Change
Update the constraint as follows.

Change the Constraint Declaration from:

Constraint Name	c_TrCHInfo_UL_2_0To9 (p_DchTFS5 , p_DchTFS1 : CommonOrDedicatedTFS)
ASN1 Type	TrCHInfo
Derivation Path	
Encoding Variation	

Comments	
{	
ulconnectedTrCHList {{	
trchid tsc_UL_DCH5,	
transportChannelInfo p_DchTFS5	
},	
{	
trchid tsc_UL_DCH1,	
transportChannelInfo p_DchTFS1	
}},	
ulTFCS c_TFCS_Cmpl0_To9_Rx	
}	

To:

Constraint Name	c_TrCHInfo_UL_2_0To9 (p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS)
ASN1 Type	TrCHInfo
Derivation Path	
Comments	
{	
ulconnectedTrCHList {{	
trchid tsc_UL_DCH1,	
transportChannelInfo p_DchTFS1	
},	
{	
trchid tsc_UL_DCH5,	
transportChannelInfo p_DchTFS5	
}},	
ulTFCS c_TFCS_Cmpl0_To9_Rx	
}	

2.2.1c_CellInfoDef

Reason for change
The existing constraint c_CellInfoDef forces all cells into Network Mode of Operation I. The modification makes this selectable using the newly introduced Pixit parameter px_NMO detailed in section 2.4.1.22.4.1.22.3.1.2.

Summary of Change
Update the c_CellInfoDef constraint to reference px_NMO rather than tsc_NMO_I.

Change the Structured Type Constraint Declaration from:

Constraint Name	c_CellInfoDef (p_CellId : INTEGER; p_priScrmCode : PrimaryScramblingCode; p_URA_Id : BITSTRING; p_tCell : Tcell; p_sfnOffset : INTEGER; p_FreqInfo : FrequencyInfo; p_UL_ScramblingCode : UL_ScramblingCode)
Structured Type	CellInfoCfg
Derivation Path	
Encoding Variation	
Comments	
Element Name	Element Value Element Encoding Comments
.... attFlag tsc_AttOn nmo tsc_NMO_I ura_Identity p_URA_Id	

To:

2.2.2c_TrChInfoUL_336_148

Reason for change
Transport channel ordering problem. Same problem as described in the approved CR T1S030234 for tc_8_2_1_1.

Summary of Change
Re-order the transport channel list as specified.

Change ASN.1 Type Constraint Declaration from:

Constraint Name	c_TrChInfoUL_336_148
ASP Type	TrCHInfo
Derivation Path	
Encoding Variation	
Comments	

```
{
ulconnectedTrCHList {
    { trchid          tsc_UL_DCH5,
      transportChannelInfo          c_DCH_148_TFS_UL },
    { trchid          tsc_UL_DCH1,
      transportChannelInfo          c_DCH_336_TFS }},
ulTFCS          c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx -- sent to SS
}
```

To:

Constraint Name	c_TrChInfoUL_336_148
ASP Type	TrCHInfo
Derivation Path	
Encoding Variation	
Comments	

```
{
ulconnectedTrCHList {
    { trchid          tsc_UL_DCH1,
      transportChannelInfo          c_DCH_336_TFS },
    { trchid          tsc_UL_DCH5,
      transportChannelInfo          c_DCH_148_TFS_UL }},
ulTFCS          c_TFCS_Cmpl0_1_2_3_4_5_6_7_8_9_Rx -- sent to SS
}
```

2.2.3cr_ActPDP_ContextReqFACH_MO

Reason for change
To provide a means for specifying the expected Quality of Service (QoS) in an Activate PDP Context Request constraint.

Summary of Change
Introduce a new parameter p_RequestedQoS to the constraint.

Change the TTCN PDU Constraint Declaration from:

Constraint Name	cr_ActPDP_ContextReqFACH_MO
Structured Type	ACTIVATEPDPCONTEXTREQUESTul
Derivation Path	
Encoding Variation	
Comments	Activate PDP Context Request ue -> n 3GPP 24.008, 9.5.1

	Field Name	Field Value	Field Encoding	Comments
	....			
	requestedLLC_SAPI	cr_LLC_SAPI_v		This has to be set to Not Assigned by UE in UMTS domain.
	requestedQoS	cr_QoS_InteractiveMO_CellFACH_lv (?)		The AT command interface will be used to set the QoS to this value.
	pDP_Address	cr_PktDataProtoAddrMO_lv (px_PDP_IP_AddrInfoFACH)		
	....			

To:

Constraint Name	cr_ActPDP_ContextReqFACH_MO(p_RequestedQoS : QualityOfService_lv)
Structured Type	ACTIVATEPDPCONTEXTREQUESTul
Derivation Path	
Encoding Variation	
Comments	Activate PDP Context Request ue -> n 3GPP 24.008, 9.5.1

	Field Name	Field Value	Field Encoding	Comments
	....			
	requestedLLC_SAPI	cr_LLC_SAPI_v		This has to be set to Not Assigned by UE in UMTS domain.
	requestedQoS	p_RequestedQoS		The AT command interface will be used to set the QoS to this value.
	pDP_Address	cr_PktDataProtoAddrMO_lv (px_PDP_IP_AddrInfoFACH)		
	....			

2.2.4cr_AttachReq

Reason for change
The information element "oldPTMSI_Signature" is optional in the ATTACH REQUEST nas message.

Summary of Change
Change the cr_AttachReq constraint to make oldPTMSI_Signature optional.

Change the TCN PDU Constraint Declaration from:

Constraint Name	cr_AttachReq (p_AttachType : AttachType; p_MobId : MS_Identity_lv; p_RAI : RAI_v; p_PTMSISig : PTMSI_Signature; p_KeySeq : KeySeq)
PDU Type	ATTACHREQUEST
Derivation Path	
Encoding Rule Name	
Encoding Variation	
Comments	

	Field Name	Field Value	Field Encoding	Comments
	....			
	msRadioAccessCap	?		
	oldPTMSI_Signature	p_PTMSISig		
	readyTimer	*		
	....			

To:

Constraint Name	cr_AttachReq (p_AttachType : AttachType; p_MobId : MS_Identity_lv; p_RAI : RAI_v; p_PTMSISig : PTMSI_Signature; p_KeySeq : KeySeq)
PDU Type	ATTACHREQUEST
Derivation Path	
Encoding Rule Name	
Encoding Variation	
Comments	

	Field Name	Field Value	Field Encoding	Comments
	....			
	msRadioAccessCap	?		
	oldPTMSI_Signature	p_PTMSISig IF_PRESENT		
	readyTimer	*		
	....			

2.2.5cr_QoS_InteractiveMO_CellFACH_lv

Reason for change:
1.There are a number of discrepancies between quality of service described in the receive constraint and the quality of service specified in the AT commands sent to the upper tester (see 2.2.82.2.82.2.8 and 2.2.92.2.92.2.9).
2.The delay class depends on the traffic class and the traffic handling priority (3GPP TS 23.107).
3.The traffic handling priority depends on the traffic class and traffic handling priority used in the AT command sent to the upper tester.
4.Some of the comments are wrong.

Summary of Change
1.Update cr_QoS_InteractiveMO_CellFACH_lv to reflect the quality of service specified in the AT commands sent to the upper tester.
2.Allow dlyClass to be set by parameter.
3.Allow trafficHandPro to be set by parameter.

Change the Structured Type Constraint Declaration from:

Constraint Name	cr_QoS_InteractiveMO_CellFACH_lv (p_trafficClass : B3)			
Structured Type	QualityOfService_lv			
Derivation Path				
Encoding Variation				
Comments	The QoS for interactive RAB at 64kbps uplink as well as down link, sent to the UE			
	Element Name	Element Value	Element Encoding	Comments
	length	'0B'O		
	spare	'00'B		
	dlyClass	'100'B		Best effort
	relabilityClass	'001'B		Acknowledge Mode of RLC
	peakThroughput	'0110'B		64 kbps
	spare1	'0'B		
	precedenceClass	'100'B		Normal class
	spare2	'000'B		
	meanThroughput	'11111'B		best effort
	trafficClass	p_trafficClass		Interactive
	deliveryOrder	'01'B		Without delivery order
	deliveryErrorSDU	'010'B		Erroneour SDU are not delivered
	maxSDUSize	'20'O		320 bits
	maxBitRateUplink	'20'O		64 kbps
	maxBitRateDnlink	'20'O		64 kbps
	residualBER	'1001'B		6 x 10E (-3)
	sduErrRatio	'0011'B		1 X 10 E(-3)
	transDly	'111111'B		Transfer delay will be neglected in case of interactive or background. Hence the value is set to spare
	trafficHandpro	'11'B		This is set to 3, but has to be neglected by the UE as the traffic class is interactive.
	bitRateUplink	'20'O		The gaurented bit rate is set equal to requested bit rate.
	bitRateDnlink	'20'O		This will be neglected by UE as the class is interactive

To:

Constraint Name	cr_QoS_InteractiveOrBackgroundMO_CellFACH_lv (p_trafficClass : B3 ; p_dlyClass : B3 ; p_trafficHandPro : B2)			
Structured Type	QualityOfService_lv			
Derivation Path				
Encoding Variation				
Comments	The expected QoS for an interactive or background RAB at 64kbps, uplink and downlink, sent to the SS by the UE			
	Element Name	Element Value	Element Encoding	Comments
	length	'0B'O		
	spare	'00'B		
	dlyClass	p_dlyClass		Interactive=traffic class, Background=4
	relabilityClass	'100'B		Unacknowledged GTP, LLC and RLC, protected data
	peakThroughput	'0100'B		64 kbps
	spare1	'0'B		
	precedenceClass	'000'B		Subscribed precedence
	spare2	'000'B		
	meanThroughput	'11111'B		best effort
	trafficClass	p_trafficClass		Interactive='011'B, Background='100'B
	deliveryOrder	'01'B		With delivery order
	deliveryErrorSDU	'010'B		Erroneous SDUs are delivered
	maxSDUSize	'20'O		320 bits

	maxBitRateUplink	'40'O		64 kbps
	maxBitRateDnlink	'40'O		64 kbps
	residualBER	'1001'B		6x 10E (-8)
	sduErrRatio	'0011'B		1 X 10 E(-3)
	transDly	?		The transfer delay is ignored if interactive or background class
	trafficHandpro	p_trafficHandPro		Interactive=value set in AT command, Background=? (value is ignored)
	bitRateUplink	?		The guaranteed bit is ignored if interactive or background class
	bitRateDnlink	?		The guaranteed bit is ignored if interactive or background class

2.2.6cs_QoS_InteractiveMT_lv

Reason for change
1.There are a number of discrepancies between quality of service described in this constraint and the quality of service requested by the UE (see 2.2.5).
2.The delay class depends on the traffic class and the traffic handling priority (3GPP TS 23.107).
3.Some of the comments are wrong.

Summary of Change
1.Update the cs_QoS_InteractiveMT_CellFACH_lv constraint to send the a quality of service that matches the request .
2.Allow dlyClass to be set by parameter.

Change the Structured Type Constraint Declaration from:

Constraint Name	cs_QoS_InteractiveMT_lv (p_trafficClass : B3)
Structured Type	QualityOfService_lv
Derivation Path	
Encoding Variation	
Comments	The QoS for interactive RAB at 32kbps uplink as well as down link, sent to the UE. This is set same as the one received by the nw

	Element Name	Element Value	Element Encoding	Comments
	length	'0D'O		
	spare	'00'B		
	dlyClass	'100'B		Best effort
	relabilityClass	'001'B		
	peakThroughput	'0110'B		64 kbps
	spare1	'0'B		
	precedenceClass	'100'B		Normal class
	spare2	'000'B		
	meanThroughput	'11111'B		best effort
	trafficClass	p_trafficClass		
	deliveryOrder	'01'B		
	deliveryErrorSDU	'010'B		
	maxSDUSize	'20'O		
	maxBitRateUplink	'20'O		64 kbps
	maxBitRateDnlink	'20'O		64 kbps
	residualBER	'1001'B		6 x 10E (-3)
	sduErrRatio	'0011'B		1 X 10 E(-3)
	transDly	'111111'B		Transfer delay will be neglected in case of interactive or background. Hence the value is set to spare
	trafficHandpro	'11'B		This is set to 3, but has to be neglected by the UE as the traffic class is interactive.
	bitRateUplink	'20'O		The gaurented bit rate is set equal to requested bit rate.
	bitRateDnlink	'20'O		This will be neglected by UE as the class is interactive

To:

Constraint Name	cs_QoS_InteractiveOrBackgroundMT_lv (p_trafficClass : B3 ; p_dlyClass : B3)
Structured Type	QualityOfService_lv
Derivation Path	
Encoding Variation	
Comments	The negotiated QoS for an interactive or background RAB at 64kbps, uplink and downlink, sent to the UE by the CS

	Element Name	Element Value	Element Encoding	Comments
	length	'0B'O		
	spare	'00'B		
	dlyClass	p_dlyClass		
	relabilityClass	'100'B		
	peakThroughput	'0110'B		64 kbps
	spare1	'0'B		
	precedenceClass	'000'B		
	spare2	'000'B		
	meanThroughput	'11111'B		best effort
	trafficClass	p_trafficClass		Interactive='011'B, background='100'B
	deliveryOrder	'01'B		
	deliveryErrorSDU	'010'B		
	maxSDUSize	'20'O		320 bits
	maxBitRateUplink	'40'O		64 kbps
	maxBitRateDnlink	'40'O		64 kbps
	residualBER	'1001'B		6x 10E (-8)
	sduErrRatio	'0011'B		1 X 10 E(-3)

	transDly	'111111'B		Transfer delay will be neglected in case of interactive or background. Hence the value is set to spare
	trafficHandpro	'11'B		This is set to 3, but has to be neglected by the UE as the traffic class is interactive.
	bitRateUplink	'00'O		The gauranteed bit rate is ignored if interactive or background class
	bitRateDnlink	'00'O		This will be neglected by UE as the class is interactive

configurationchannel

2.2.7ts_ActivatePDP_RequestCellFACH_MO

Reason for change
To accommodate the modified receive Activate PDP Context Request constraint (see 2.2.3).

Summary of Change
Call a test step to determine the values for QoS delay and traffic classes, and then to pass these values into the renamed quality of service receive constraint.

Change test step from:

Test Step Name		ts_ActivatePDP_RequestCellFACH_MO (p_CellId : INTEGER ; p_RB_ConfigType : RB_ConfigType)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RecdNSAPI := tcv_ActPDP_ContextReq.requestedNSAPI.nSAPI_Value)	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqFACH_MO)		
2		+ts_SetTI_Rsp(tcv_TI_R)			
...		.....			

To:

Test Step Name		ts_ActivatePDP_RequestCellFACH_MO (p_CellId : INTEGER ; p_RB_ConfigType : RB_ConfigType)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_DetermineDlyClassAndTrafficClassAndTrafficHandPro			
2		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RecdNSAPI := tcv_ActPDP_ContextReq.requestedNSAPI.nSAPI_Value)	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqFACH_MO (cr_QoS_InteractiveOrBackgroundMO_CellFACH_lv (tcv_TrafficClass , tcv_DlyClass, tcv_TrafficHandPro)))		
3		+ts_SetTI_Rsp(tcv_TI_R)			
...		.....			

2.2.8ts_AT_OrgPS_Call
Reason for change:
previous 2.2.2 The are a number of problems with the AT commands issued by this test step:-
1.The activate PDP context command (CGACT) uses a different context ID to that of the other AT commands used.
2.The minimum quality of service command (CGEQMIN) used has too many fields (TS 27.007).
3.The minimum quality of service command (CGEQMIN) used specifies guaranteed bit rates. These are not valid for either interactive and background classes (TS 23.107).
4.The minimum quality of service command (CGEQMIN) should place the SDU error ratio and the Residual bit error ratio parameters between quotation marks.

Summary of Change
Modify the AT commands issued.

Change test step from:

Test Step Name		ts_AT_OrgPS_Call (p_CellId : INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
17		(tcv_AT_Cmd := ("AT+CGEQMIN=1,2,64, 64, 64, 64, 1, 320, 1E3,6E8,1,,,<CR>"))			set up the Minimum QoS same as Required QoS
20	ERR1	[TRUE]		I	Parameter error

ca_2Dch0To9_UL_InfoActNow

Reason for change
The Transport channel mapping is inconsistent w.r.t. the similar constraint of radio bearer setup and radio bearer re-configuration etc.

Summary of Change
Update the constraint as follows.

Change the Constraint Declaration from:

Constraint Name	ca_2Dch0To9_UL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_DchTFS5 , p_DchTFS1 : CommonOrDedicatedTFS)
ASP Type	CPHY_TrCH_Config_REQ
Derivation Path	
Comments	

```
{   cellId   p_CellId,
   routingInfo   physicalChannelIdentity:   p_PhyChId,
   ratType   fdd,
   configMessage
  {
   activationTime   activateNow   : NULL,
 ulconnectedTrCHList {{
    trchid   tsc_UL_DCH5,
    ul_TransportChannelType   dch,
    transportChannelInfo   p_DchTFS5
   },
  {
trchid   tsc_UL_DCH1,
ul_TransportChannelType   dch,
    transportChannelInfo   p_DchTFS1
   }},
 ulTFCS
 c_TFCS_Cmpl0_To9_Rx

 }
}
```

To:

Constraint Name	ca_2Dch0To9_UL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_DchTFS1 , p_DchTFS5 : CommonOrDedicatedTFS)
ASP Type	CPHY_TrCH_Config_REQ
Derivation Path	
Comments	

```
{   cellId   p_CellId,
    routingInfo   physicalChannelIdentity:   p_PhyChId,
    ratType   fdd,
  configMessage
  {
   activationTime   activateNow   : NULL,
 ulconnectedTrCHList {{
    trchid   tsc_UL_DCH1
    ul_TransportChannelType   dch,
    transportChannelInfo   p_Dch1TFS1
    },
    {
trchid   tsc_UL_DCH5,
ul_TransportChannelType   dch,
    transportChannelInfo   p_Dch1TFS5
    }},
 ulTFCS
  c_TFCS_Cmpl0_To9_Rx

  }
}
```

To:

2.2.9ts_AT_SetQoS

Reason for change
There are a number of problems with the AT commands issued by this test step:
1.The quality of service command (CGEQREQ) used has too many fields (TS 27.007).
2.The quality of service command (CGEQREQ) used specifies guaranteed bit rates. These are not valid for either interactive and background classes (TS 23.107).
3.The quality of service command (CGEQREQ) should place the SDU error ratio and the Residual bit error ratio parameters between quotation marks.

Summary of Change
Modify the AT commands issued.

Change test step from:

To:

Test Step Name		ts_AT_SetQoS			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		…..			
4		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]			
5		(tcv_AT_Cmd := ("AT+CGEQREQ=1,2,64,64,,,1,320,""1E3"",""6E8"",1,,3<CR>"))			
6		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
7		(tcv_AT_Cmd := ("AT+CGEQREQ=1,3,64, 64, , , 1, 320, ""1E3"", ""6E8"",1,,<CR>"))			
8	ERR1	[TRUE]		I	Parameter error

2.2.10ts_CRLC_UL_CipherCfg_RAB

Reason for change
The ciphering activation request and confirm steps must only take place when ciphering is enabled. Enabling of ciphering is controlled by the Pixit value px_CipheringOnOff.

Summary of Change
Modify the test step so that the sending of CRLC_Ciphering_Activate_REQ and reception of CRLC_Ciphering_Activate_CNF only occur when px_CipheringOnOff is set to TRUE.

Change test step from:

Test Step Name		ts_CRLC_UL_CipherCfg_RAB (p_CN_Domain : CN_DomainIdentity; p_RB_ActivationTimeInfoList : RB_ActivationTimeInfoList)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_UL_CipherActReq (tsc_CellDedicated , p_CN_Domain, p_RB_ActivationTimeInfoList)		configure ciphering for signaling radio bearers
2		CRLC ? CRLC_Ciphering_Activate_CNF	ca_CRLC_CipherActCnf(tsc_CellDedicated)		

To:

Test Step Name		ts_CRLC_UL_CipherCfg_RAB (p_CN_Domain : CN_DomainIdentity; p_RB_ActivationTimeInfoList : RB_ActivationTimeInfoList)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[px_CipheringOnOff]			
2		CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_UL_CipherActReq (tsc_CellDedicated , p_CN_Domain, p_RB_ActivationTimeInfoList)		configure ciphering for signaling radio bearers
3		CRLC ? CRLC_Ciphering_Activate_CNF	ca_CRLC_CipherActCnf(tsc_CellDedicated)		
4		[NOT (px_CipheringOnOff)]			

2.2.11ts_GMM_Authentication

Reason for change
The constraint which checks the Authentication and Ciphering Response message refers to the structured type constraint c_AuthRspExtAny_tv. This structured type constraint is also referenced elsewhere when checking an Authenticatioin Response message. Although the two information elements are the same, they have different tag values in the two messages. A new structured type constraint called c_AuthCiphRspExtAny_tv, detailed in section 2.4.1.12.4.1.12.3.1.1, has been added with the correct tag value and needs to be referenced instead.

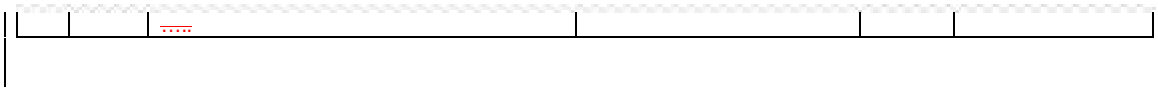
Summary of Change
Change line 3 to refer to the new constraint.

Change test step from:

Test Step Name	ts_GMM_Authentication (p_CellId : INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
2		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated , tsc_RB3, cs_AuthAndCiphReq (c_GMM_AuthRAND(tcv_AuthRAND), c_GMM_KeySeq_tv(tcv_PS_KeySeq), c_GMM_AuthAUTN(tcv_AuthAUTN)))		AUTHENTICATION AND CIPHERING REQUEST using relevant PS keys computed before.
3		Dc ? RRC_DataInd (tcv_TmpAuthAndCiphRspPDU := RRC_DataInd.msg, tcv_AuthRsp := tcv_TmpAuthAndCiphRspPDU.authRsp.value, tcv_AuthRspExt := tcv_TmpAuthAndCiphRspPDU.authRspExt)	car_PS_UplinkDirectTransfer (tsc_CellDedicated , tsc_RB3, cr_AuthAndCiphRsp (c_AuthRspAny_tv,c_AuthRspExtAny))		AUTHENTICATION AND CIPHERING RESPONSE including both Authentication Response paramters
4		(tcv_Res := o_AuthRspChk(tcv_AuthRsp, tcv_AuthRspExt, tcv_AuthK, tcv_AuthRAND, TRUE))			Verify that the received Authentication Response paramters match expected response.
		.....			

To:

Test Step Name	ts_GMM_Authentication (p_CellId : INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
2		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated , tsc_RB3, cs_AuthAndCiphReq (c_GMM_AuthRAND(tcv_AuthRAND), c_GMM_KeySeq_tv(tcv_PS_KeySeq), c_GMM_AuthAUTN(tcv_AuthAUTN)))		AUTHENTICATION AND CIPHERING REQUEST using relevant PS keys computed before.
3		Dc ? RRC_DataInd (tcv_TmpAuthAndCiphRspPDU := RRC_DataInd.msg, tcv_AuthRsp := tcv_TmpAuthAndCiphRspPDU.authRsp.value, tcv_AuthRspExt := tcv_TmpAuthAndCiphRspPDU.authRspExt)	car_PS_UplinkDirectTransfer (tsc_CellDedicated , tsc_RB3, cr_AuthAndCiphRsp (c_AuthRspAny_tv,c_AuthCiphRspExtAny))		AUTHENTICATION AND CIPHERING RESPONSE including both Authentication Response paramters
4		(tcv_Res := o_AuthRspChk(tcv_AuthRsp, tcv_AuthRspExt, tcv_AuthK, tcv_AuthRAND, TRUE))			Verify that the received Authentication Response paramters match expected response.



2.2.12ts_GMM_IdleUpdated

Reason for change
The part of the test step dealing with a UE which does a CS attach followed by a PS attach calls the test step 'ts_ClassA_NMO_II_IdleUpdate' to handle the procedure. This test step does not work properly, as it does not release and then re-establish the RRC connection between the two attaches. The mechanism used in v300 of the suite was found to work satisfactorily, and has been reintroduced.

Summary of Change
Replace line 5 with two lines calling the test step ts_MM_IdleUpdated, followed by the local tree lt_GMMIdleUpdated.

Change test step from:

Test Step Name		ts_GMM_IdleUpdated (p_CellId : INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
4		[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_II)]			If UE is in operation mode A and network mode of operation is II, then run first CS Idle Updated procedures, and then GMM procedure (for PS only attach).
5		+ ts_ClassA_NMO_II_IdleUpdate (p_CellId)			
6		[tcv_UE_OpMode = opModeC]			If UE is in operation mode C, then run GMM procedure (for PS only attach).
		.....			

To:

Test Step Name		ts_GMM_IdleUpdated (p_CellId : INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
4		[(tcv_UE_OpMode = opModeA) AND (tcv_TmpCellInfo.nmo = tsc_NMO_II)]			If UE is in operation mode A and network mode of operation is II, then run first CS Idle Updated procedures, and then GMM procedure (for PS only attach).
5		+ts_MM_IdleUpdated(p_CellId)			
6		+lt_GMMIdleUpdated			
7		[tcv_UE_OpMode = opModeC]			If UE is in operation mode C, then run GMM procedure (for PS only attach).
		.....			

2.2.13ts_ReceiveActivatePDP_Accept_DCH

Reason for change
1.The Activate PDP Context Request message from the UE has the PDP Address IE present. Consequently, the Activate PDP Context Accept message returned by the SS must have that IE omitted.
2.To accommodate the modified interactive QoS constraint (refer 2.2.6).

Summary of Change
Modify the constraint to omit the PDP Address.

Change test step from:

Test Step Name		ts_ReceiveActivatePDP_Accept_DCH (p_CellId :INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
4		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]			
5		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT(tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, cs_QoS_InteractiveMT_lv('011'B), cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH)))		
6		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
7		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT(tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, cs_QoS_InteractiveMT_lv('100'B), cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH)))		
8	ERR1	[TRUE]		I	Parameter error
10		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]			
11		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT(tcv_TI_S, cs_LLC_SAPI_UMTS_v, cs_QoS_InteractiveMT_lv('011'B), cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH)))		
12		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
13		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT(tcv_TI_S, cs_LLC_SAPI_UMTS_v, cs_QoS_InteractiveMT_lv('100'B), cs_PktDataProtoAddrMT (tcv_LenBit, px_PDP_IP_AddrInfoDCH)))		
14	ERR2	[TRUE]		I	Parameter error

To:

Test Step Name		ts_ReceiveActivatePDP_Accept_FACH (p_CellId :INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
4		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]			
5		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT(tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, cs_QoS_InteractiveOrBackgroundMT_lv('011'B,'011'B), OMIT)))		

6		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
7		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT(tcv_TI_S, cs_LLC_SAPI_UMTS_GSM_v, cs_QoS_InteractiveOrBackgroundMT_lv('100'B,'100'B), OMIT))		
8	ERR1	[TRUE]		!	Parameter error
		…..			
10		[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]			
11		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT(tcv_TI_S, cs_LLC_SAPI_UMTS_v, cs_QoS_InteractiveOrBackgroundMT_lv('011'B,'011'B), OMIT))		
12		[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]			
13		Dc ! RRC_DataReq	ca_PS_DataReq (tsc_CellDedicated, tsc_RB3, cs_ActPDP_ContextAcpMT(tcv_TI_S, cs_LLC_SAPI_UMTS_v, cs_QoS_InteractiveOrBackgroundMT_lv('100'B,'100'B), OMIT))		
14	ERR2	[TRUE]		!	Parameter error

ts_RRC_NAS_SessionActPS_MO_P9_P10

Reason for change
The delay class, traffic class and traffic handling priority IEs in the received Activate PDP context request depend on the AT command issued to the upper tester, which in turn is controlled by various test suite parameters.

Summary of Change
1.Call a test step to determine the appropriate delay class, traffic class and traffic handling priority.
2.Pass these values into the modified quality of service receive constraint.

Change test step from:

Test Step Name		ts_RRC_NAS_SessionActPS_MO_P9_P10 (p_CellId : INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
6		[tcv_TmpCellInfo.cellConfig = cell_FACH]			
7		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nSAPI_ Value), 8))	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqFACH _MO)		
8		+ ts_SetTI_Rsp (tcv_TI_R)			

To:

Test Step Name		ts_RRC_NAS_SessionActPS_MO_P9_P10 (p_CellId : INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
6		[tcv_TmpCellInfo.cellConfig = cell_FACH]			
7		+ts_DetermineDlyClassAndTrafficClassAndTrafficH andPro			
8		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nSAPI_ Value), 8))	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqFACH _MO(cr_QoS_InteractiveOrBackgrou ndMO_CellFACH_iv(tcv_TrafficClass , tcv_DlyClass, tcv_TrafficHandPro)))		
9		+ ts_SetTI_Rsp (tcv_TI_R)			

2.2.15ts_RRC_NAS_SessionActPS_MT_P9_P10

Reason for change
To accommodate the modified receive Activate PDP Context Request constraint (see 2.2.3).

Summary of Change
1.Call a test step to determine the appropriate values for the delay and traffic classes,.
2.Pass these values to the modified receive Activate PDP Context Request constraint.

Change test step from:

Test Step Name		ts_RRC_NAS_SessionActPS_MO_P9_P10 (p_CellId : INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
15		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_ReqPDP_ContextReqMT (tcv_TI_S, tcv_Len1_Oct, tcv_LenBit, px_PDP_IP_AddrInfoFACH, px_AccessPtNameFACH))		Step 5 Send Request PDP Context
16		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nSAPI_ Value), 8))	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqFACH _MO)		

To:

Test Step Name		ts_RRC_NAS_SessionActPS_MO_P9_P10 (p_CellId : INTEGER)			
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
		.....			
15		Dc ! RRC_DataReq	ca_PS_DataReq(tsc_CellDedicated, tsc_RB3, cs_ReqPDP_ContextReqMT (tcv_TI_S, tcv_Len1_Oct, tcv_LenBit, px_PDP_IP_AddrInfoFACH, px_AccessPtNameFACH))		Step 5 Send Request PDP Context
16		+ts_DetermineDlyClassAndTrafficClassAndTrafficH andPro			
17		Dc ? RRC_DataInd (tcv_ActPDP_ContextReq := RRC_DataInd.msg, tcv_TI_R := tcv_ActPDP_ContextReq.ti, tcv_PktDataProtoAddr := tcv_ActPDP_ContextReq.pDP_Address, tcv_RAB_Id := INT_TO_BIT (BIT_TO_INT(tcv_ActPDP_ContextReq.requestedNSAPI.nSAPI_ Value), 8))	car_PS_UplinkDirectTransfer (tsc_CellDedicated, tsc_RB3, cr_ActPDP_ContextReqFACH _MO(cr_QoS_InteractiveOrBackgrou ndMO_CellFACH_lv(tcv_TrafficClass , tcv_DlyClass, tcv_TrafficHandPro)))		

Tables added to RRCv310

Tables added to RRCv320

ca_2Dch0To9_DL_InfoActNow

This table is not based on one in any existing ATS

Reason for change
Activation time is not required for Cell_FACH to Cell_DCH transition state. Therefore a new constraint is introduced

Summary of Change
Table added to suite.

Constraint Name	ca_2Dch0To9_DL_InfoActNow (p_CellId : INTEGER; p_PhyChId : INTEGER; p_DchTFS1 ; p_DchTFS5 : CommonOrDedicatedTFS ;p_PowerOffsetInformation:PowerOffsetInformation)
ASP Type	CPHY_TrCH_Config_REQ
Derivation Path	
Comments	

```
{
   cellId   p_CellId,
   routingInfo   physicalChannelIdentity:   p_PhyChId,
   ratType   fdd,
   configMessage   {
   activationTime   activateNow   : NULL,
 dlconnectedTrCHList   {{
   trchid   tsc_DL_DCH1,
   dl_TransportChannelType   dch,
   transportChannelInfo   p_DchTFS1
   },
   {
   trchid   tsc_DL_DCH5,
   dl_TransportChannelType   dch,
   transportChannelInfo   p_DchTFS5
   }},
dlTFCSc_TFCS_Cmpl0_To9_Tx ( p_PowerOffsetInformation )

   }
}
```

Tables added from RRCv143

2.3

2.3Type	2.3Name
2.3Test Suite Parameter Declarations	2.3px_KeySeqDefxxxxx
2.3Test Suite Constant Declaration	2.3tsc_DPCCH_PowerOffset
2.3Test Case Variable Declarations	2.3tcv_KeySeq
2.3ASN.1 Type Constraint Declarations	2.3c_DCH_148_TFS 2.3c_DCH_148_TFS_UE 2.3c_DL_CommTrChInfoFACH_ToDCH 2.3c_RAB_InfoListDCH_OrFACH_ToFACH_ToDCH_PS 2.3c_UL_AddReconfTransChInfoListFACH_ToDCH
2.3ASN.1 PDU Constraint Declarations	2.3cr_108_RRC_ConnRelCmpl 2.3cbs_108_RB_SetUpFACH_ToDCH
2.3Test Cases 2.3 RRC_ConnRelease	2.3 2.3tc_8_2_1_10
2.3Test Steps 2.3 BasicM_CC_SM_Steps	2.3 2.3pr_GotoState6_6_Or6_8_MO

2.3

2.3New tables adde

2.3c_AuthCiphRspExtAny

2.3

2.3Reason for change

2.3The existing constraint c_AuthRspExtAny was referenced by both 'Authentication Response' and 'Authentication And Ciphering Response' receive constraints. This will not work, as the tag value for this IE is different for the two NAS messages. The new constraint has been introduced to get around that problem.

2.3

2.3Summary of Change

2.3Table added to suite.

2.3

2.3Add Structured Type Constraint Declaration:

2.3Constraint Name	2.3c_AuthCiphRspExtAny
2.3Structured Type	2.3AuthRspExt
2.3Derivation Path	2.3
2.3Encoding Variation	2.3
2.3Comments	2.3

2.3Element Name

2.3Element Value

2.3Element Encoding

2.3Comments

2.3Iei

2.3'00101001'B

2.3Iel

2.3?

2.3RES

2.3?

2.3

2.3px_NMO

2.3

2.3Reason for change

2.3istoedProvision of a means of selecting the Network Mode of Operation from the Pics/Pixit file. Use of this new parameter declaration is detailed in section 2.2.1.

2.3

2.3Summary of Change

2.3Table added to suite.

2.3

2.3Add Test Suite Parameter Declaration:

2.3Parameter Name	2.3px_NMO
2.3Type	2.3OCTETSTRING
2.3PICS/PIXIT Ref	2.3
2.3Comments	2.3Network Mode of Operation 2.3Valid values are 2.3'00'O - NMO I 2.3'01'O - NMO II

2.3

2.3tcv_DlyClass

2.3

2.3Reason for change

2.3The value of delay class (used in QoS IE's) depends on a couple of PICS/PIXIT values. Because the value of delay class is used in several locations a test step has been written (see below) to determine the appropriate value and store it in this test case variable.

2.3

2.3Summary of Change

2.3Table added to suite.

2.3

2.3Add Test Case Variable Declaration:

2.3Variable Name	2.3tcv_DlyClass
2.3Type	2.3B3
2.3Value	2.3
2.3Comments	2.3Refer 27.107 for derivation of value. Refer 24.008 for encoding.

2.3

2.3tcv_TrafficClass

2.3

2.3Reason for change

2.3The value of traffic class (used in QoS IE's) depends on a couple of PICS/PIXIT values. Because the value of traffic class is used in several locations a test step has been written (see below) to determine the appropriate value and store it in this test case variable.

2.3

2.3Summary of Change

2.3Table added to suite.

2.3

2.3Add Test Case Variable Declaration:

2.3Variable Name	2.3tcv_TrafficClass
2.3Type	2.3B3
2.3Value	2.3
2.3Comments	2.3Refer 27.107 for derivation of value. Refer 24.008 for encoding.

2.3

2.3tcv_TrafficHandPro

2.3

2.3Reason for change

2.3The value of traffic handling priority (used in QoS IE's) depends on a couple of PICS/PIXIT values. Because the value of traffic handling priority is used in several locations a test step has been written (see 2.4.1.62.4.1.62.3.1.6) to determine the appropriate value and store it in this test case variable.

2.3

2.3Summary of Change

2.3Table added to suite.

2.3

2.3Add Test Case Variable Declaration:

2.3Variable Name	2.3tcv_TrafficHandlingPriority
2.3Type	2.3B2
2.3Value	2.3
2.3Comments	2.3Refer 27.107 for derivation of value. Refer 24.008 for encoding.

2.3

2.3ts_DetermineDlyClassAndTrafficClassAndTrafficHandPro

2.3

2.3Reason for change

2.3To provide a means of setting the new test case variables tcv_DlyClass and tcv_TrafficClass.

2.3

2.3Summary of Change

2.3Table added to suite.

2.3

2.3Add test step:

2.3Test Step Name	2.3ts_DetermineDlyClassAndTrafficClass
2.3Group	2.3BasicM_General_Steps/
2.3Objsctive	2.3
2.3Default	2.3
2.3Comments	2.3
2.3Description	2.3

2.3N	2.3Lab	2.3Behaviour Description	2.3Constraint Ref	2.3Verdic t	2.3Comment s
2.31	2.3	2.3[pc_Interactive AND (px_RRC_PS_ServTested = ps_Interactive)]	2.3	2.3	2.3
2.32	2.3	2.3 (tcv_DlyClass := '011'B, tcv_TrafficClass := '011'B, tcv_TrafficHandPro := '11'B)	2.3	2.3	2.3
2.33	2.3	2.3[pc_Background AND (px_RRC_PS_ServTested = ps_Background)]	2.3	2.3	2.3
2.34	2.3	2.3 (tcv_DlyClass := '100'B, tcv_TrafficClass := '100'B, tcv_TrafficHandPro := '??'B)	2.3	2.3	2.3
2.35	2.3	2.3[TRUE]	2.3	2.3l	2.3

2.3

2.3Modifications to tables added from RRCv143

2.3

2.3tc_8_2_1_10

2.3Reason for change

2.3The test procedure causes the SS to send the Activate PDP Context Accept to the UE twice in quick succession. This message only needs to be sent once.

2.3

2.3Summary of Change

2.3Change the test case behaviour line such that the Activate PDP Context Accept is only sent once.

2.3

2.3Change test case from:

2.3Test Case Name		2.3tc_8_2_1_10			
2.3N	2.3Lab	2.3Behaviour Description	2.3Constraint Ref	2.3Verdic	2.3Comments
2.31	2.3… ..	2.3….	2.3…..	2.3… ..	2.3….
2.31	2.3	2.3 (tcv_CellInfoA.cellConfig := cell_DCH_64kPS_RAB_SRB)	2.3	2.3	2.3
2.31	2.3	2.3 +ts_ReceiveActivatePDP_Accept_FACH (tsc_CellA)	2.3	2.3	2.3test step is called to complete the PDP context
2.31	2.3	2.3Ut ? AT_CmdCnf 2.3	2.3 ca_AT _Cmd Cnf	2.3	2.3Acknowledgement to the Initial AT comamnd
2.31	2.3	2.3 + ts_NAS_ConnCompleteMO_CS_PS (tsc_CellA)	2.3	2.3	2.3
2.31	2.3… ..	2.3… ..	2.3… ..	2.3… ..	2.3… ..

2.3

2.3To:

2.3Test Case Name		2.3tc_8_2_1_10			
2.3N	2.3Lab	2.3Behaviour Description	2.3Constraint Ref	2.3Verdic	2.3Comments
2.31	2.3… ..	2.3….	2.3…..	2.3… ..	2.3….

2.31	2.3	2.3 { tcv_CellInfoA.cellConfig := cell_DCH_64kPS_RAB_SRB }	2.3	2.3	2.3
2.31	2.3	2.3+ ts_NAS_ConnCompleteMO_CS_PS { tsc_CellA }	2.3	2.3	2.3
2.31	2.3… ..	2.3… ..	2.3… ..	2.3… ..	2.3… ..

2.3
2.3eror