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 7 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.

CRs related to new TTCN test cases for R99:

Spec	CR	Rev	Rel.	Subject	Cat	Version Current	Version -New	Doc-2nd-Level
34.123-3	149	-	R99	CR to 34.123-3 V321 to introduce test case TC_8_2_2_23	F	3.2.1	3.3.0	T1-031289
34.123-3	156	-	R99	CR to 34.123-3 V321 to introduce test case TC_8_2_6_19	F	3.2.1	3.3.0	T1-031296
34.123-3	157	-	R99	CR to 34.123-3 V321 to introduce test case TC_8_2_2_7	F	3.2.1	3.3.0	T1-031297
34.123-3	158	-	R99	CR to 34.123-3 V321 to introduce test case TC_8_2_2_9	F	3.2.1	3.3.0	T1-031298
34.123-3	159	-	R99	CR to 34.123-3 V321 to introduce test case TC_8_3_1_11	F	3.2.1	3.3.0	T1-031299
34.123-3	160	-	R99	CR to 34.123-3 V321 to introduce test case TC_8_2_6_8	F	3.2.1	3.3.0	T1-031300
34.123-3	161	-	R99	CR to 34.123-3 V321 to introduce test case TC_8_4_1_16	F	3.2.1	3.3.0	T1-031301

CR-Form-v7

CHANGE REQUEST

⌘   **TS 34.123-3**   **CR**   **031289**   ⌘**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 8.2.2.23 to RRC ATS V3.2.1	
Source: ⌘	T1	
Work item code: ⌘	N/A	***Date:*** ⌘ 15/09/03
Category: ⌘ **F**		***Release:*** ⌘ R99

Use <u>one</u> of the following categories:
   F *(correction)*
   A *(corresponds to a correction in an earlier release)*
   B *(addition of feature),*
   C *(functional modification of feature)*
   D *(editorial modification)*
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
   2   *(GSM Phase 2)*
   R96   *(Release 1996)*
   R97   *(Release 1997)*
   R98   *(Release 1998)*
   R99   *(Release 1999)*
   Rel-4   *(Release 4)*
   Rel-5   *(Release 5)*
   Rel-6   *(Release 6)*

Reason for change: ⌘	To add verified GCF package 2 RRC test case 8.2.2.23 to the approved RRC ATS V3.2.1
Summary of change: ⌘	This document lists all changes applied to test case 8.2.2.23 required for approval. This CR is a revision of T1-031120 and includes ETSI/MCC160 feedback and R&S conclusions 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		
	Other core specifications		X	Other core specifications ⌘	
	Test specifications		X		
	O&M Specifications		X		

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 #21   **T1-031289**
Budapest, Hungary, 3rd – 7th November 2003

Title:	**Changes to test case 8.2.2.23 required for approval**
Source:	Rohde & Schwarz
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 8.2.2.23 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_23

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 8.2.2.23

4.1   Introduction

This section describes the changes required to make test case 8.2.2.23 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 R&S conclusion on the TTCN implementation is documented. These changes were made 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	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqMO_p_RequestedQoS : QualityOfService_M		
Group:			
PDU Name:	ACTIVATEPDPCONTEXTREQUESTU		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:	Activate PDP Context Request		
	UE -> n		
	3GPP 24.008, 9.5.1		
	WAReqokM4014		

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_AddrInfoDCH)		
accessPtName	cr_AccessPtNameAny IF_PRESENT		The OGGN 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
<mark>ETSI comment</mark>	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 '*'.
<mark>R&S conclusion</mark>	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqFACH_MO_p_RequestedQoS : QualityOfService_M		
Group:			
PDU Name:	ACTIVATEPDPCONTEXTREQUESTU		
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 OGGN 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

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 34.108 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_SS_CreateCellFACH. WA#RRC3055				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		AM ! RLC_AM_DATA_REQ	csei_RB_SetUpAM { tsc_CellDedicated, tsc_RB2, cbo_108_RB_SetUpFACH_PS { tcv_CellInstInfo.cd_IntegrityCheckInfo, tcv_RRC_TI, tcv_TmpCellInfo.frequencyInfo, p_RAB_Id, tcv_TmpCellInfo.priSyncCode, tcv_TmpCellInfo.cRNTI } }		
3	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId, cell_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	Accepted.

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				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		[px_CipheringOnOff]			
1		CRLC ! CRLC_Ciphering_Activate_REQ	cs_CRLC_UL_CipherActReq (tsc_CellDedicated, p_CN_Domain, p_RB_ActivationTimeInfoList)		configure ciphering for signaling radio bearers
2		CRLC ? CRLC_Ciphering_Activate_CNF	cs_CRLC_CipherActCnf(tsc_CellDedicated)		
0		[NOT (px_CipheringOnOff)]			

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	OK

Test Step					
Test Step Id:	ts_SS_ReconfRLC_PollingInfo (p_CellId : INTEGER; p_UL_AM_RLC_Mode : UL_AM_RLC_Mode)				
Test Step Group Ref:	RRCM_SS_Steps!				
Objective:	Ts reconfigure SRB2, SRB3 and SRB4 regarding the polling information				
Defaults:	SS_Def				
Comments:	WA#RRC 4040				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ ts_SetTmgCellInfo (p_CellId)			
2		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfInfoSS_DL (tsc_CellDedicated, tsc_RB2, (uLlogicalChannelIdentity tsc_UL_DCCH2, dLogicalChannelIdentity tsc_DL_DCCH2), 128, p_UL_AM_RLC_Mode)		cofigure 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, (uLlogicalChannelIdentity tsc_UL_DCCH3, dLogicalChannelIdentity tsc_DL_DCCH3), 128, p_UL_AM_RLC_Mode)		cofigure 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, (uLlogicalChannelIdentity tsc_UL_DCCH4, dLogicalChannelIdentity tsc_DL_DCCH4), 128, p_UL_AM_RLC_Mode)		cofigure radio bearers : RB4(AM + DCCH) and (AM + DCCH)
7		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB4)		
8		[tcr_CN_Domain = ps_domain]			WA#RRC 4040
9		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfInfoSS_DL (tsc_CellDedicated, tsc_RB20, (uLlogicalChannelIdentity tsc_UL_DTCH1, dLogicalChannelIdentity tsc_DL_DTCH1), 320, p_UL_AM_RLC_Mode)		cofigure 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 (WA#RRC4054)

Test step name	Test body
Reason for change	The test case receives the RB Reconf Complete before the Delay timer times out. The test case is to reconfigure from Cell_FACH to PCH, there fore the ReconfDCH_TOFACH is not required.
Summary of change	Removed the following in tc_8_2_2_23 line 12. +ts_RRC_Delay (tsc_WaitBeforeFACH_Conf. Removed the following in line 15 tc_8_2_2_23. Ts_ss_ReconfDCH_ToFACH (tsc_CellA)
Source of change	new change
Label	WA#RRC4054
ETSI comment	Accepted, ts_RRC_Delay and ts_ss_ReconfDCH_ToFACH shall be removed.
R&S conclusion	OK

Test Case Id:	tr_8_2_2_23
Test Group Reference:	RRC/RRC_RB_Reconfig/
Purpose:	To confirm that the UE transmits a RADIO BEARER RECONFIGURATION COMPLETE message and enters CELL_PCH state after it receives a RADIO BEARER RECONFIGURATION message, which invokes the UE to transit CELL_FACH to CELL_PCH, from SS
Configuration:	
Defaults:	RRC_Def1
Comments:	WuRRC 4054.

Ind	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		START L_Guard			
1		[ps_RAT=fdd]			FDD specific behaviour
2		+ ts_RRC_InitVariablesPS (cell_FACH)			
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	[ps_RAT=tdd]		I	TDD specific behaviour
1	ERR2	[TRUE]		I	
lt_LocalTest					
0	TB8	(tcv_TestBody=TRUE)			
1		(tcv_CellInfoA.dRX_CycleLength.uTRAN_DRX_CycleLength = 3)			
2		AM ! RLC_AM_DATA_REQ	cas_RB_Reconfigure(tsc_CellDedicated, tsc_RB2, cds_RB_ReconfDCH_ToFACH_PCH_RLC_Status500ms_RST600 (tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_TI, tcv_CellInfoA.frequencyInfo, tcv_CellInfoA.priScrmCode, tcv_CellInfoA.cRNTI, tcv_CellInfoA.dRX_CycleLength.uTRAN_DRX_CycleLength))		step 1 in grose;
3		+ ts_SS_ReconfRLC_PollingInfo (tsc_CellA,c_UL_AM_RLC_Rst600Poll250)			
4		+ ts_RRC_ReceiveRB_ReconfigCmpl (tsc_CellA, tcv_RRC_RAB_Type)			step 2 (and afterwards step 3 occurs inside the UE)
5		+ ts_RLC_CheckNoStatusPDU_RRC (tsc_CellA, 54 00)			step 3 in grose; SS checks, that RLC STATUS PDUs are not received
6		+ ts_C4_CheckCellPCH (tsc_CellA)			step 4
7	TB8	(tcv_TestBody=FALSE)			

5   Branches executed in test case 8.2.2.23

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_23-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_23-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for PS testing.

7   References

[1]   **T1-031121**
         This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR **031296** | ⌘ **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 8.2.6.19 to RRC ATS V3.2.1
Source: ⌘	T1
Work item code: ⌘	N/A
Date: ⌘	15/09/03

Category: ⌘ **F**

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.

Release: ⌘ R99

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 8.2.6.19 to the approved RRC ATS V3.2.1
Summary of change: ⌘	This document lists all changes applied to test case 8.2.6.19 required for approval.

This CR is a revision of T1-031118 and includes ETSI/MCC160 feedback and R&S conclusions 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

	Y	N		
Other specs affected: ⌘		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 #21   **T1-031296**
Budapest, Hungary, 3rd – 7th November 2003

Title:	**Changes to test case 8.2.6.19 required for approval**
Source:	Rohde & Schwarz
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 8.2.6.19 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_19
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 8.2.6.19

4.1 Introduction

This section describes the changes required to make test case 8.2.6.19 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 R&S conclusion on the TTCN implementation is documented. These changes were made 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	Accepted

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
	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 '*'.
	Accepted

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

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 34.108 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_SS_CreateCellFACH (WA#RRC3066)				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		AM ! RLC_AM_DATA_REQ	cas_RB_SetUpAM { tss_CellDedicated, tss_RB2, cbo_108_RB_SetUpFACH_PS { tcv_CellInstInfo.cd_IntegrityCheckInfo, tcv_RRC_TI, tcv_TmpCellInfo.frequencyInfo, p_RAB_Id, tcv_TmpCellInfo.primaryScramblingCode, tcv_TmpCellInfo.cRNTI } }		
3	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId, cell_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

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 (tss_CellDedicated), WA#RRC3073				
Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		[px_CipheringOnOff]			
1		CRLC ! CRLC_Ciphering_Activate_REQ	ca_CRLC_UL_CipherActReq (tss_CellDedicated , p_CN_Domain, p_RB_ActivationTimeInfoList)		configure ciphering for signaling radio bearers
2		CRLC ? CRLC_Ciphering_Activate_CNF	ca_CRLC_CipherActCnf(tss_CellDedicated)		
0		[NOT [px_CipheringOnOff]]			

5   Branches executed in test case 8.2.6.19

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_19-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_6_19-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for PS testing.

7   References

[1]   **T1-031119**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** CR **031297** | ⌘ **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 8.2.2.7 to RRC ATS V3.2.1	
Source: ⌘	T1	
Work item code: ⌘	N/A	*Date:* ⌘ 15/09/03
Category: ⌘	**F**	*Release:* ⌘ R99

Use <u>one</u> of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
C (functional modification of feature)
D (editorial modification)
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)

Reason for change: ⌘	To add verified GCF package 2 RRC test case 8.2.2.7 to the approved RRC ATS V3.2.1
Summary of change: ⌘	This document lists all changes applied to test case 8.2.2.7 required for approval. This CR is a revision of T1-031002 and includes ETSI/MCC160 feedback and R&S conclusions 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		

		Y	N	
Other specs affected:	⌘		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.

Title:	Changes to test case 8.2.2.7 required for approval
Source:	Rohde & Schwarz
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 8.2.2.7 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_2_7
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 8.2.2.7

4.1   Introduction

This section describes the changes required to make test case 8.2.2.7 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#RRC4022, WA#RRC4031, WA#RRC3051, WA#RRC3068

For each correction the ETSI/MCC160 feedback and R&S conclusion on the TTCN implementation is documented. These changes were made 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	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqMO_RequestedQoS : QualityOfService_M		
Group:			
PDU Name:	ACTIVATEPDPCONTEXTREQUESTU		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:	Activate PDP Context Request		
	UE -> n		
	3GPP 24.008, 9.5.1		
	WAREackM4014		

Field Name	Element Value	Type ...	Comments
ti	ct_TI_Any	Element Value	
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01000001'B		
requestedNSAPI	ct_NSAPI_v		
requestedLLC_SAPI	ct_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	ct_PktDataProtoAddrMO_iv (px_PDP_IP_AddrInfoDCH)		
accessPtName	ct_AccessPtNameAny IF_PRESENT		The GGSN logical name or the external packet data network logical name
protocolConfOpts	ct_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
<mark>ETSI comment</mark>	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 '*'.
<mark>R&S conclusion</mark>	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqFACH_MO_RequestedQoS : QualityOfService_M		
Group:			
PDU Name:	ACTIVATEPDPCONTEXTREQUESTU		
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	ct_TI_Any		
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01000001'B		
requestedNSAPI	ct_NSAPI_v		
requestedLLC_SAPI	ct_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	ct_PktDataProtoAddrMO_iv (px_PDP_IP_AddrInfoFACH)		
accessPtName	ct_AccessPtNameAny IF_PRESENT		The GGSN logical name or the external packet data network logical name
protocolConfOpts	ct_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	

		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_Def!				
Comments:	See TS 34.108 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_SS_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, cbo_108_RB_SetUpFACH_PS (tcv_CellInsInfo.cl_IntegrityCheckInfo, tcv_RRC_TI, tcv_TmpCellInfo.frequencyInfo, p_RAB_Id, tcv_TmpCellInfo.pnlScrmCode, tcv_TmpCellInfo.cRNTI))		
3	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId, cell_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	Accepted.

	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 celkId:1 (tsc_CellDedicated), WA#RRC3073)				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		[px_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 (px_CipheringOnOff)]			

4.6   cbs_108_RB_Reconfig64k_PS (WA#RRC3102)

Constraint name	cbs_108_RB_Reconfig64k_PS
Reason for change	RAB_Reconfig is used with SecScramCode = 2 but not localy changed
Summary of change	Changed SecScramCode in Constraint cbs_108_RB_Reconfig64K_PS (tsc_DL_DPCH_SrcC_2 -> tsc_DL_DPCH1_2nd_SrcC)
Source of change	new change
Label	WA#RRC3102
ETSI comment	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	Accepted

However, the ETSI did not make this change in V330, therefore test case fails in regression tests. This issue needs to be fixed in their phase 2 implementation.

ASN.1 PDU Constraint Declaration

Constraint Name:	cbs_108_RB_Reconfig64k_PS {
	 p_IntegrityInfo IntegrityCheckInfo ;
	 p_RRC_TI: RRC_TransactionIdentifier;
	 p_Activetime ActivationTime;
	 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.3, WA#RRC3152

Constraint Value

```
{
  integrityCheckInfo p_IntegrityInfo ,
  message radioBearerReconfiguration : r3 : {
    radioBearerReconfiguration_r3{
      rrc_TransactionIdentifier p_RRC_TI,
      integrityProtectionModeInfo OMIT,
      cipheringModeInfo OMIT,
      activationTime p_Activetime,
      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_AddReconfTransChInfoListDCH_PS_64k,
      modeSpecificTransChInfo fdd{
        cpch_SetID OMIT,
        addReconfTransChDRAC_Info OMIT
      },
      dl_CommonTransChInfo c_DL_CommonTransChInfoDCH ( c_TFCS_Cmp(0_1_2_3_4_5_6_7_8_9_Rx),
      dl_DeletedTransChInfoList OMIT,
      dl_AddReconfTransChInfoList c_DL_AddReconfTransChInfoList2_DCH_PS,
      frequencyInfo p_FreqInfo,
      maxAllowedUL_TX_Power tsc_MaxAllowPwr,
      ul_ChannelRequirement ul_DPCH_Info : cb_UL_DPCH_Info (tsc_UL_DPDCH_SF_64k_PS,p(0_98,a_UL_ScramblingCode ),
      modeSpecificPhysChInfo fdd{
        dl_PDSCH_Information OMIT
      },
      dl_CommonInformation c_DL_CommonInformationRB_Setup (tsc_DL_DPCH1_SFP_64k_PS),
      dl_InformationPerRL_List c_DL_InformationPerRL( p_PrimaryScramblingCode , tsc_DL_DPCH1_ChC_64k_PS, tsc_DL_DPCH1_2ndScrC )
    },
    v3a0NonCriticalExtensions {
      radioBearerReconfiguration_v3a0ext{ new_DSCH_RNTI OMIT },
      nonCriticalExtensions OMIT
    }
  }
}
```

Detailed Comment:

4.7 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	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.

<table>
<tr><td>R&S conclusion</td><td>Accepted
However, the ETSI did not make this change in V330, therefore test case fails in regression tests. This issue needs to be fixed in their phase 2 implementation.</td></tr>
</table>

4.8 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
<mark>ETSI comment</mark>	Accepted, since the only difference is the puncturing limit which needs to be set to 0,84 for speech. This will be done in v330. Already done in wk_30 version, see our answer to Anritsu CR T1-030902.
<mark>R&S conclusion</mark>	OK

see also TTCN code snippet for correction WA#RRC4023

4.9 ts_GMM_IdReq and ts_GMM_IdReqFail (WA#RRC4042)

Test step name	ts_GMM_IdReq and ts_GMM_IdReqFail
Reason for change	8_2_2_7_PS fails in the Identity request message. The message sent has a CS domain as the specifed domain, therefore the phone sends an RRC status message. In order to send a GMM Identity Request message, new PDU type definition, new PDU constraints, and new test steps had to be created.
Summary of change	Added 2 new test steps, ts_GMM_IdReqFail and ts_GMM_IdReq. Under the test step group L3M_MM_GMM_Steps
Source of change	new change
Label	WA#RRC4042
==**ETSI comment**==	Teststep ts_GMM_IdReqFail is <u>accepted</u> in principle, but but with the following changes: We will replace your created PDU constraints by our existing PDU constraints please refer to wk_24 NAS ATS delivery: Instead of c_GMM_IdReq, we will use of <u>cs_IdentityRequest</u> and instead of your proposed c_GMM_IdRsp, we will use <u>cr_IdentityResponse.</u>
==**R&S conclusion**==	OK

and

4.10 ts_IdReqFail and ts_IdReq (WA#RRC4043)

Test step name	ts_IdReqFail and ts_IdReq
Reason for change	see problem description 4042
Summary of change	Added 2 new test steps, ts_IdReq and ts_IdReqFail. Under the test step group L3M_MM_GMM_Steps.
Source of change	new change
Label	WA#RRC4043
==**ETSI comment**==	Accepted in principle, will be included in our next delivery using modified teststeps please refer to ts_GMM_IdReq and ts_GMM_IdReqFail.
==**R&S conclusion**==	OK

Test Step					
Test Step Id:	ts_IdReqFail (p_CellId: INTEGER; p_IdType: B3)				
Test Step Group Ref:	L3M_MM_GMM_Steps/				
Objective:	Identity Request procedure, UE shall not answer				
Defaults:	NAS_OtherwiseFail				
Comments:	WA#RRC 4043				

Nr	Label	Behaviour Description	Constraint Ref	Verd...	Comments
1		[tx_CN_Domain = ps_domain]			
2		+ts_GMM_IdReqFail (p_CellId,p_IdType)			
3		[tx_CN_Domain = cs_domain]			
4		+ts_MM_IdReqFail(p_CellId,p_IdType)			
5		[TRUE]		I	

and

Test Step					
Test Step Id:	ts_IdReq (p_CellId: INTEGER; p_IdType: B3; p_MobileId:MS_Identity_hl)				
Test Step Group Ref:	L3M_MM_GMM_Steps/				
Objective:	Identity Request procedure				
Defaults:	NAS_OtherwiseFail				
Comments:	WA#RRC 4043				

Nr	Label	Behaviour Description	Constraint Ref	Verd...	Comments
1		[tx_CN_Domain = ps_domain]			
2		+ts_GMM_IdReq(p_CellId,p_IdType,p_MobileId)			
3		[tx_CN_Domain = cs_domain]			
4		+ts_MM_IdReq (p_CellId,p_IdType,p_MobileId)			
5		[TRUE]		I	

4.11 GMM_IDENTITYREQ and GMM_IDENTITYRESP (WA#RRC4044)

PDU types	GMM_IDENTITYREQUEST and GMM_IDENTITYRESPONSE
Reason for change	see problem description 4042
Summary of change	Created new Pdu type definition. GMM_IDENTITYREQUESTand GMM_IDENTITYRESPONSE
Source of change	new change
Label	WA#RRC4044
<mark>ETSI comment</mark>	Change not needed since these PDU definitions already exists in wk_24 NAS ATS delivery and were used for existing PDU constraints cs_IdentityRequest and cr_IdentityResponse, there is not need to double-define this PDU constraints. Please refer to our comments given in clause 4.9.
<mark>R&S conclusion</mark>	OK

PDU Type Definition			
PDU Name:	GMM_IDENTITYREQUEST		
Group:			
PCO Type:	Ds_SAP		
Encoding Rule Name:			
Encoding Variation:			
Comments:	GMM IDENTITY REQUEST n -> ue		
	3G TS 24.008 V3.4.0 cl. 9.2.10 WA#RRC 4044		

Field Name	Field Type	Type Encoding	Comments
skipIndicator	SkipIndicator		Skip indicator M BITSTRING [4]
gmmProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type (1) M BITSTRING [8]
spare4	B4		Spare half octet M BITSTRING [4]
idType	IdType		Identity Type M BITSTRING [4]

and

PDU Type Definition			
PDU Name:	GMM_IDENTITYRESPONSE		
Group:			
PCO Type:	Ds_SAP		
Encoding Rule Name:			
Encoding Variation:			
Comments:	GMM IDENTITY RESPONSE us -= n		
	3G TS 24.008 V3.4.0 cl. 9.2.11 WA#RRC 4044		

Field Name	Field Type	Type Encoding	Comments
skipIndicator	SkipIndicator		Skip Indicator M BITSTRING [4]
gmMProtocolDiscriminator	ProtocolDiscriminator		GMM Protocol Discriminator M BITSTRING [4]
msgType	MsgType		Message Type (T) M BITSTRING [8]
mobileId	MS_Identity_lv		Mobile Identity LV M MobileId (2-10 octets)

4.12 c_GMM_IdReq and c_GMM_IdRsp (WA#RRC4045)

Constraint names	c_GMM_IdReq and c_GMM_IdRsp
Reason for change	see problem description 4042
Summary of change	Added new PDU constraint. c_GMM_IdReq and c_GMM_IdRsp
Source of change	new change
Label	WA#RRC4045
ETSI comment	Change not needed since we will use existing constraints: Instead of c_GMM_IdReq, we will use of cs_IdentityRequest and instead of your proposed c_GMM_IdRsp, we will use cr_IdentityResponse.
R&S conclusion	OK

PDU Constraint Declaration			
Constraint Name:	c_GMM_IdReq(p_IdType:IdType)		
Group:			
PDU Name:	GMM_IDENTITYREQUEST		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:	WA#RRC4045		

Field Name	Element Value	Type ...	Comments
skipIndicator	'0000'B		
gmMProtocolDiscriminator	'1000'B		
msgType	'00010101'B		
spare4	'0000'B		
idType	p_IdType		

and

PDU Constraint Declaration			
Constraint Name:	c_GMM_IdRsp (p_MobileId MS_Identity_lv)		
Group:			
PDU Name:	GMM_IDENTITYRESPONSE		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:	WA#RRC4045		

Field Name	Element Value	Type ...	Comments
skipIndicator	'0000'B		
gmMProtocolDiscriminator	'1000'B		
msgType	'00010110'B		
mobileId	p_MobileId		

4.13 Test body line 12 and 15 (WA#RRC4046)

Constraint names	Test body, line 12 and 15
Reason for change	see problem description 4042
Summary of change	Changed the following in 8_2_2_7. In Line 12 changed from ts_MM_IdReq to ts_IdReq. In Line 15 changed from ts_MM_IdReqFail to ts_IdReqFail

Source of change	new change	
Label	WA#RRC4046	
	Change accepted, considering the changes as given in our comments in clauses 4.9 to 4.11. Change not needed since we will use existing constraints:	
	Instead of c_GMM_IdReq, we will use of cs_IdentityRequest and instead of your proposed c_GMM_IdRsp, we will use cr_IdentityResponse.	
R&S conclusion	OK	

<div align="center">

Test Case

</div>

Test Case Id:	tr_8_2_2_7
Test Group Reference:	RRC/RRC_RB_Reconfig
Purpose:	To confirm that the UE reconfigures new radio bearer and stop the transmission and reception of the RLC entity belonging to the RB identity specified in the RADIO BEARER RECONFIGURATION message
Configuration:	
Defaults:	RRC_Def
Comments:	WA#RRC 4046

Nr	Label	Behaviour Description	Constraint Ref	Verd...	Comments
1		START t_Guard			
2		[px_RAT=fdd]			FDD specific behaviour
3		+ts_RRC_InitVariables (cell_DCH)			
4		+pr_GotoState6_9_0r6_10_MO (tsc_CellA)			
5		+tl_LocalTest			
6		+ po_ConnectionAndSS_Rels			Postamble : To release the RRC connection and all the SS configuration
7	ERR1	[px_RAT=tdd]			TDD specific behaviour
8	ERR2	[TRUE]		i	
tl_LocalTest					
9	TBB	(tsv_TestBody=TRUE)			
10		+tl_SendRB_ReconfContinue			step 1
11		+ ts_RRC_ReceiveRB_ReconfigCmpl (tsc_CellA, tcv_RRC_RAB_Type)			step 2 in arrow;
12		+ ts_IdReq (tsc_CellA, '001'B, c_ModdedAny_M)			steps 3 - 3a WA#RRC 4046
13		+tl_SendRB_ReconfStop			step 4
14		+ ts_RRC_ReceiveRB_ReconfigCmpl (tsc_CellA, tcv_RRC_RAB_Type)			step 5 in arrow;
15		+ts_IdReqFail (tsc_CellA, '001'B)			step 6 in arrow; WA#RRC 4046 SS shall not receive any data from the UE
16		+ts_C3_CheckCellDCH_NoNAS (tsc_CellA)			step 8
17	TBE	(tsv_TestBody=FALSE)			

5   Branches executed in test case 8.2.2.7

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_7-Logs\CS\Index.html**
- **Execution log files 8_2_2_7-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_7-CS-pics-pixit.txt**
- **PICS/PIXIT file 8_2_2_7-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for CS/PS testing.

7   References

[1]   **T1-031003**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** | **CR** | **031298** | ⌘**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 8.2.2.9 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 8.2.2.9 to the approved RRC ATS V3.2.1
Summary of change: ⌘	This document lists all changes applied to test case 8.2.2.9 required for approval. This CR is a revision of T1-031261 and includes ETSI/MCC160 feedback and R&S conclusions 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.

Title:	Changes to test case 8.2.2.9 required for approval
Source:	Rohde & Schwarz
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 8.2.2.9 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_9
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 8.2.2.9

4.1 Introduction

This section describes the changes required to make test case 8.2.2.9 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.

For each correction the ETSI/MCC160 feedback and R&S conclusion on the TTCN implementation is documented. These changes were made 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	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqMOg_RequestedQoS : QualityOfService_M	
Group:		
PDU Name:	ACTIVATEPDPCONTEXTREQUESTUI	
Derivation Path:		
Encoding Rule Name:		
Encoding Variation:		
Comments:	Activate PDP Context Request	
	UE -> n	
	3GPP 24.008, 9.5.1	
	WA#ack M4014	

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_AddrInfoDCH)		
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
	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	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqFACH_MOg_RequestedQoS : QualityOfService_M	
Group:		
PDU Name:	ACTIVATEPDPCONTEXTREQUESTUI	
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

4.5 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

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"

QoS settings are currently being discussed in MCC160 and among SS and UE manufacturers. Test case should be approved without these QoS settings for an interim period, until a common agreement on the correct settings has been reached.

	Test Step				

Test Step Id:		ts_AT_SetQoS			
Test Step Group Ref:		BasicM_UT_Steps/			
Objective:		This Step sets the QoS			
Defaults:		UT_OtherwiseFail			
Comments:		WA#BasicM4020 (closed) WA#RRC4071			

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
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

4.6   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
<mark>ETSI comment</mark>	Not accepted. The Standard configuaration defined in 34.108, in cell FACH is only 32 kbps.
<mark>R&S conclusion</mark>	OK, if MIN QOS is changed in "ts_AT_OrgPS_Call"
	QoS settings are currently being discussed in MCC160 and among SS and UE manufacturers. Test case should be approved without these QoS settings for an interim period, until a common agreement on the correct settings has been reached.

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

4.7 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. The Standard configuaration defined in 34.108, in cell FACH is only 32 kbps.
R&S conclusion	OK, if MIN QOS is changed in "ts_AT_OrgPS_Call"

QoS settings are currently being discussed in MCC160 and among SS and UE manufacturers. Test case should be approved without these QoS settings for an interim period, until a common agreement on the correct settings has been reached. |

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		
maxSDUSize	'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 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 gaurented bit rate is set equal to requested bit rate.
bitRateDnlink	'00'O		This will be neglected by UE as the class is interactive

4.8   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.

Test Step					
Test Step Id:	ts_CRLC_UL_CipherCfg_RAB (p_CN_Domain: CN_DomainIdentity, p_RB_ActivationTimeInfoList: RB_ActivationTimeInfoList)				
Test Step Group Ref:	BaseM_Security_Steps/				
Objective:	Configure ciphering for RLC layer				
Defaults:	SS_Def				
Comments:	CRLC is configured with cellId -1 (tsc_CellDedicated), WMRRC307)				

Init	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		[px_CipheringOnOff]			
1		CRLC ! CRLC_Ciphering_Activate_REQ	(a_CRLC_UL_CipherAcfReq (tsc_CellDedicated , p_CN_Domain, p_RB_ActivationTimeInfoList)		configure ciphering for signaling radio bearers
2		CRLC ? CRLC_Ciphering_Activate_CNF	(a_CRLC_CipherActCnf(tsc_CellDedicated)		
0		[NOT (px_CipheringOnOff)]			

4.9   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

			Test Step			

Test Step Id:	ts_SS_ReconfRLC_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

.	...	Behaviour Description	Constraint Ref	...	Comments
1		+ ts_SetTmpCellInfo (p_CellId)			
2		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfInfoSS_DL (tsc_CellDedicated, tsc_RB2, {uLlogicalChannelIdentity tsc_UL_DCCH2, dLlogicalChannelIdentity tsc_DL_DCCH2 }, 128, p_UL_AM_RLC_Mode)		cofigure 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, {uLlogicalChannelIdentity tsc_UL_DCCH3, dLlogicalChannelIdentity tsc_DL_DCCH3},128, p_UL_AM_RLC_Mode)		cofigure 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, {uLlogicalChannelIdentity tsc_UL_DCCH4, dLlogicalChannelIdentity tsc_DL_DCCH4},128, p_UL_AM_RLC_Mode)		cofigure radio bearers : RB4(AM + DCCH) and (AM + DCCH)
7		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB4)		
8		[tcv_CN_Domain = ps_domain]			WA#RRC 4040
9		CRLC ! CRLC_Config_REQ	ca_RB_AM_ReconfInfoSS_DL (tsc_CellDedicated, tsc_RB20, {uLlogicalChannelIdentity tsc_UL_DTCH1, dLlogicalChannelIdentity tsc_DL_DTCH1}, 320, p_UL_AM_RLC_Mode)		cofigure radio bearers : RB20 (AM + DTCH)
10		CRLC ? CRLC_Config_CNF	ca_CRLC_CfgCnf (tsc_CellDedicated, tsc_RB20)		
11		[TRUE]			WA#RRC 4040

4.10 tc_8_2_2_9

4.10.1 tc_8_2_2_9:lt_LocalTest (WA#RRC4074)

Test case name	Tc_8_2_2_9: lt_LocalTest
Reason for change	The Cell update confirm message is not been received by the UE,due to MAC header. Therefore the CMAC is reconfigured to use the U-RNTI and reconfigure the UM RLC Paylod size.
Summary of change	Added the following test steps in tc_8_2_2_9 after reception of cell update.
	(tcv_CellInfoA.cellConfig := cell_FACH_PS)
	+ts_CMAC_New_RNTI_Reconf (TRUE, tsc_CellA, tcv_CellInfoA.uRNTI, tsc_New_CRNTI)
Source of change	New Change
Label	WA#RRC4074
ETSI comment	Accepted
R&S conclusion	OK

4.10.2 tc_8_2_2_9:lt_LocalTest (WA#RRC4075)

Test case name	Tc_8_2_2_9: lt_LocalTest
Reason for change	After perfroming the cell update procedure, the CMAC must be reconfigured to use the C-RNTI
Summary of change	The following changes have been made in tc_8_2_2_9 after sending cell update confirm

        removed

        +ts_SS_ReconfDCH_ToFACH(tsc_CellA)

        added

        +ts_CMAC_New_RNTI_Reconf (FALSE, tsc_CellA, tcv_CellInfoA.uRNTI, tsc_CRNTI_1)

Source of change	New Change
Label	WA#RRC4075
<mark>**ETSI comment**</mark>	Accepted
<mark>**R&S conclusion**</mark>	OK

4.10.3 tc_8_2_2_9:lt_LocalTest (WA#RRC4076)

Test case name	Tc_8_2_2_9: lt_LocalTest
Reason for change	This reconfiguration is not neccessary
Summary of change	Removed the following after receiving Utran mobility information confirm

    +ts_SS_ReconfDCH_ToFACH (tsc_CellA)

Source of change	New Change
Label	WA#RRC4076
<mark>**ETSI comment**</mark>	Accepted
<mark>**R&S conclusion**</mark>	OK

4.10.4 tc_8_2_2_9:lt_LocalTest (WA#RRC4077)

Test case name	Tc_8_2_2_9: lt_LocalTest
Reason for change	According to the prose the U-RNTI is not sent only the new C-RNTI is sent to the UE
Summary of change	Changed the followning in tc_8_2_2_9

    from

        cas_RRC_CellUpdateCnf(

        tsc_CellDedicated,tsc_RB1, cbs_108_CellUpdateCnfDCCH(

        tcv_CellIndInfo.dl_IntegrityCheckInfo,

            tcv_RRC_Ti, tcv_CellInfoA.uRNTI,

            tsc_CRNTI_1, cell_FACH,

            OMIT, OMIT, OMIT))

    To

        cas_RRC_CellUpdateCnf(

        tsc_CellDedicated, tsc_RB1, cbs_108_CellUpdateCnfDCCH(

        tcv_CellIndInfo.dl_IntegrityCheckInfo, tcv_RRC_Ti, OMIT,

        tsc_CRNTI_1, cell_FACH,OMIT, OMIT, OMIT))

Source of change	New Change
Label	WA#RRC4077
<mark>**ETSI comment**</mark>	Accepted Accepted, according to 34.108 cl. 9.1.1, the new U-RNTI is not present

Test Case

Test Case Id:	tc_8_2_2_9
Test Group Reference:	RRC/RRC_RB_Recondig/
Purpose:	To confirm that the UE transmits RADIO BEARER RECONFIGURATION COMPLETE message after it completes a cell update procedure.
Configuration:	
Defaults:	RRC_Ded1
Comments:	RA#ROC#DT2, RA#ROC#DT3, RA#ROC#DT4, RA#ROC#DT7

		Behaviour Description		Constraint Ref			Comments
16		{ tcv_CellInfoA.cellConfig := cell_FACH_T1 }					RA#ROC#DT3
17		+ts_CMAC_New_CRNTI_Record (TRUE, tsc_CellA, tcv_CellInfoA.CRNTI, tsc_New_CRNTI)					RA#ROC#DT4
18		UE ! RLC_UM_DATA_REQ		cas_RRC_CellUpdateCnf(tsc_CellDedicated, tsc_RB1, cha_IDN_CellUpdateCnfRCEB(tcv_CellIndInfo, di_IntegrityCheckInfo, tcv_RRC_T1, OMIT, tsc_CRNTI_2, cell_FACH, OMIT, OMIT, OMIT))			Step 9 in prose; RA#ROC#DT7
19		{ tcv_CellInfoA.rRNTI != tsc_CRNTI_1 }					
20		+ts_CMAC_New_CRNTI_Record (FALSE, tsc_CellA, tcv_CellInfoA.nRNTI, tsc_CRNTI_1)					RA#ROC#DT3
21		UE ! RLC_AM_DATA_IND		cas_UTRAN_MobilityInfoCnfInd (tsc_CellDedicated, tsc_RB1, ci_UTRAN_MobilityInfoCnf) tcv_RRC_T1))			step 6 in prose;
22		+ ts_RRC_ReceiveRB_RecondigCmpl (tsc_CellA, vcv_RRC_RAB_Type)					step 7 in prose;
23		+ ts_CI_CheckCellFACH (tsc_CellA)					step 8
24	TBR	[tcv_TestBody:=FALSE]					

Detailed Comment

5   Branches execute in test case 8.2.2.9

The PS branches of the test case implementation was 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 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_9-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_9-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for PS testing.

7   References

[1]   **T1-031262**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** | **CR** | **031299** | ⌘ **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 8.3.1.11 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 8.3.1.11 to the approved RRC ATS V3.2.1
Summary of change: ⌘	This document lists all changes applied to test case 8.3.1.11 required for approval.

This CR is a revision of T1-031124 and includes ETSI/MCC160 feedback and R&S conclusions 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

	Y	N		
Other specs affected: ⌘		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 #21   **T1-031299**
Budapest, Hungary, 3rd – 7th November 2003

Title:	Changes to test case 8.3.1.11 required for approval
Source:	Rohde & Schwarz
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 8.3.1.11 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_3_1_11
Test Group:	RRC/RRC_CellUpdate/
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 8.3.1.11

4.1   Introduction

This section describes the changes required to make test case 8.3.1.11 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.

For each correction the ETSI/MCC160 feedback and R&S conclusion on the TTCN implementation is documented. These changes were made 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	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqMO_RequestedQoS : QualityOfService_M
Group:	
PDU Name:	ACTIVATEPDPCONTEXTREQUESTU
Derivation Path:	
Encoding Rule Name:	
Encoding Variations:	
Comments:	Activate PDP Context Request
	UE -> R
	3GPP 24.008, 9.5.1
	WA#back#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_AddrInfoDCH)		
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
	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 '*'.
	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqFACH_MO_RequestedQoS : QualityOfService_M
Group:	
PDU Name:	ACTIVATEPDPCONTEXTREQUESTU
Derivation Path:	
Encoding Rule Name:	
Encoding Variations:	
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

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_Deft				
Comments:	See TS 34.108 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_SS_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,		
			cbo_108_RB_SetUpFACH_PS {		
			tcv_CellInstInfo.cl_IntegrityCheckInfo,		
			tcv_RRC_TI,		
			tcv_TmpCellInfo.frequencyInfo,		
			p_RAB_Id,		
			tix_TmpCellInfo.priSyncCode,		
			tcv_TmpCellInfo.cRNTI)		
			}		
3	TSP	+ ts_RRC_ReceiveRB_SetupCmpl (p_CellId, cell_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	Accepted.

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				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
0		[px_CipheringOnOff]			
1		CRLC ! CRLC_Ciphering_Activate_REQ	(a_CRLC_UL_CipherActReq (tsc_CellDedicated, p_CN_Domain, p_RB_ActivationTimeInfoList)		configure ciphering for signaling radio bearers
2		CRLC ? CRLC_Ciphering_Activate_CNF	(a_CRLC_CipherActCnf(tsc_CellDedicated)		
0		[NOT (px_CipheringOnOff)]			

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	Not accepted.

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"

QoS settings are currently being discussed in MCC160 and among SS and UE manufacturers. Test case should be approved without these QoS settings for an interim period, until a common agreement on the correct settings has been reached.

Test Step					
Test Step Id:	ts_AT_SetQoS				
Test Step Group Ref:	BasicM_UT_Steps/				
Objective:	This Step sets the QoS				
Defaults:	UT_OtherwiseFail				
Comments:	WA#BasicM4020 (closed) WA#RRC4071				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
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
<mark>ETSI comment</mark>	Not accepted. The Standard configuaration defined in 34.108, in cell FACH is only 32 kbps.
<mark>R&S conclusion</mark>	OK, if MIN QOS is changed in "ts_AT_OrgPS_Call"

QoS settings are currently being discussed in MCC160 and among SS and UE manufacturers. Test case should be approved without these QoS settings for an interim period, until a common agreement on the correct settings has been reached.

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		
reliabilityClass	'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. The Standard configuaration defined in 34.108, in cell FACH is only 32 kbps.
R&S conclusion	OK, if MIN QOS is changed in "ts_AT_OrgPS_Call" **QoS settings are currently being discussed in MCC160 and among SS and UE manufacturers. Test case should be approved without these QoS settings for an interim period, until a common agreement on the correct**

settings has been reached.

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		
reliabilityClass	'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		
maxSDUSize	'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 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 gaurented bit rate is set equal to requested bit rate.
bitRateDnlink	'00'O		This will be neglected by UE as the class is interactive

4.9 t_Guard (WA#RRC4108)

Timer name	t_Guard
Reason for change	Default value for t_Guard is not enough to perform the execution
Summary of change	t_Guard value changed **from** 300 s (default value) **to** 3600 s.
Source of change	new change
Label	WA#RRC4108
ETSI comment	Accepted

Test Case				
Test Case Id:	tc_8_3_1_11			
Test Group Reference:	RRC/RRC_CellUpdate/			
Purpose:	1. To confirm that the UE repeats the transmission of CELL UPDATE message after failing to receive any response from the SS before T302 timer expires.			
Configuration:				
Defaults:	RRC_Def1			
Comments:				

Nr	Label	Behaviour Description	Constraint Ref	V...	Comments
1		START t_Guard (3600)			WA#RRC4108
2		[px_RAT=fdd]			FDD specific behaviour
3		+ts_RRC_InitVariablesPS (cell_FACH)			
4		+pr_GotoState6_11_MO(tsc_CellA)			Goto 6-11 Stateon Cell A Step 1
5	TBS	(tcv_TestBody:=TRUE)			
6		+lt_TestBody			
7		+ ts_C2_CheckCellFACH (tsc_CellA)			
8	TBE	(tcv_TestBody:=FALSE)			
9		+po_ConnectionAndSS_Rel(tsc_CellA)			
10	ERR1	[px_RAT=tdd]		I	TDD specific behaviour
11	ERR2	[TRUE]		I	

5 Branches executed in test case 8.3.1.11

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 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_3_1_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_3_1_11-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for CS/PS testing.

7 References

[1]   **T1-031125**
       This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** | **CR** | **031300** | ⌘ **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 8.2.6.8 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 8.2.6.8 to the approved RRC ATS V3.2.1
Summary of change: ⌘	This document lists all changes applied to test case 8.2.6.8 required for approval. This CR is a revision of T1-031116 and includes ETSI/MCC160 feedback and R&S conclusions 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

	Y	N	
Other specs affected: ⌘		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 #21   **T1-031300**
Budapest, Hungary, 3ʳᵈ – 7ᵗʰ November 2003

Title:	**Changes to test case 8.2.6.8 required for approval**
Source:	Rohde & Schwarz
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 8.2.6.8 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_6_8
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 8.2.6.8

4.1 Introduction

This section describes the changes required to make test case 8.2.6.8 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 R&S conclusion on the TTCN implementation is documented. These changes were made 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	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqMO : _RequestedQoS : QualityOfService_IV		
Group:			
PDU Name:	ACTIVATEPDPCONTEXTREQUESTUl		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:	Activate PDP Context Request		
	UE -> n		
	3GPP 24.008, 9.5.1		
	WA#back M4014		

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_AddrInfoDCH)		
accessPtName	cr_AccessPtNameAny IF _PRESENT		The OGGN 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
<mark>ETSI comment</mark>	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 '*'.
<mark>R&S conclusion</mark>	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqFACH_MO : _RequestedQoS : QualityOfService_IV		
Group:			
PDU Name:	ACTIVATEPDPCONTEXTREQUESTUl		
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 OGGN 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 |

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	Accepted.

4.6 cbs_108_CellUpdateCnfCCCH (WA#RRC3105)

Constraint name	cbs_108_CellUpdateCnfCCCH
Reason for change	In constraint cbs_108_CellUpdateCnfCCCH, the parameter p_U_RNTI is used twice, as a 2nd parameter and 4th parameter. This amibguity causes coding problems.
Summary of change	Renamed the 2nd paramter parameter in constraint cbs_108_CellUpdateCnfCCCH from p_U_RNTI to p_U_RNTIold
Source of change	new change
Label	WA#RRC3105
ETSI comment	Accepted
R&S conclusion	OK, but this change is not implemented in V330 ATS.

4

In tc_8_2_6_8 line 17 changed the following value

from

cas_RRC_CellUpdateCnfCCCH(
tsc_CellA,tsc_RB1,cbs_108_CellUpdateCnfCCCH
(tcv_CellIndInfo.dl_IntegrityCheckInfo,
tcv_CellInfoA.uRNTI,tcv_RRC_Ti,tcv_CellInfoA.uRNTI, tsc_New_CRNTI2,
cell_FACH, OMIT, OMIT, OMIT, OMIT))

to

cas_RRC_CellUpdateCnfCCCH(tsc_CellA, tsc_RB0,
cbs_108_CellUpdateCnfCCCH (tcv_CellIndInfo.dl_IntegrityCheckInfo,
tcv_CellInfoA.uRNTI,tcv_RRC_Ti,tcv_CellInfoA.uRNTI, tsc_New_CRNTI2,
cell_FACH, OMIT, OMIT, OMIT, OMIT))

Test case passed then. **MCC160 to make this change in their phase 2 implementation.**

ASN.1 PDU Constraint Declaration	
Constraint Name:	cbs_108_CellUpdateCnfCCCH (p_IntegrityCheckInfo : IntegrityCheckInfo; p_U_RNTIld : U_RNTI; p_RRC_TI RRC_TransactionIdentifier; p_U_RNTI : U_RNTI; p_C_RNTI C_RNTI; p_State_Ind: RRC_StateIndicator; p_UL_ChannelRequirement : UL_ChannelRequirement; p_DL_CommonInformation : DL_CommonInformation ; p_DL_InformationPerRL_List : DL_InformationPerRL_List p_DRX_CycleLengthCoeff : UTRAN_DRX_CycleLengthCoefficient)
Group:	
PDU Name:	DL_CCCH_Message
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	Wxx#RRC3105

Constraint Value

{
integrityCheckInfo p_IntegrityCheckInfo,
message cellUpdateConfirm: r3 {
u_RNTI p_U_RNTIsId,
cellUpdateConfirm_r3 { --CellUpdateConfirm_r3_IEs
rrc_TransactionIdentifier p_RRC_TI,
integrityProtectionModeInfo OMIT,
cipheringModeInfo OMIT,
activationTime OMIT,
new_U_RNTI p_U_RNTI ,
new_C_RNTI p_C_RNTI,
rrc_StateIndicator p_State_Ind,
utran_DRX_CycleLengthCoeffp_DRX_CycleLengthCoeff,
rlc_Re_establishIndicatorRb2_3or4 FALSE,
rlc_Re_establishIndicatorRb5orAbove FALSE,
cn_InformationInfo OMIT,
ura_Identity '0100010000000001'B,
rb_InformationReleaseList OMIT,
rb_InformationReconfigList OMIT,
rb_InformationAffectedList OMIT,
ul_CommonTransChInfo OMIT,
ul_deletedTransChInfoList OMIT,
ul_AddReconfTransChInfoList OMIT,
modeSpecificTransChInfo fdd: {
cpch_SetID OMIT,
addReconfTransChDRAC_Info OMIT
}

5   Branches executed in test case 8.2.6.8

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_6_8-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_6_8-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for PS testing.

7   References

[1]   **T1-031117**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file

CR-Form-v7

CHANGE REQUEST

| ⌘ | **TS 34.123-3** | **CR** | **031301** | ⌘**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 8.4.1.16 to RRC ATS V3.2.1
Source: ⌘	T1
Work item code:⌘	N/A ***Date:*** ⌘ 15/09/03
Category: ⌘	**F** ***Release:*** ⌘ R99

Use <u>one</u> of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
2   *(GSM Phase 2)*
R96   *(Release 1996)*
R97   *(Release 1997)*
R98   *(Release 1998)*
R99   *(Release 1999)*
Rel-4   *(Release 4)*
Rel-5   *(Release 5)*
Rel-6   *(Release 6)*

Reason for change: ⌘	To add verified GCF package 2 RRC test case 8.4.1.16 to the approved RRC ATS V3.2.1
Summary of change:⌘	This document lists all changes applied to test case 8.4.1.16 required for approval. This CR is a revision of T1-031170 and includes ETSI/MCC160 feedback and R&S conclusions 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

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

Title:	Changes to test case 8.4.1.16 required for approval	
Source:	Rohde & Schwarz	
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 8.4.1.16 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_4_1_16
Test Group: RRC/RRC_Measurements/
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 8.4.1.16

4.1 Introduction

This section describes the changes required to make test case 8.4.1.16 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 R&S conclusion on the TTCN implementation is documented. These changes were made 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	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqMO_RequestedQoS : QualityOfService_M		
Group:			
PDU Name:	ACTIVATEPDPCONTEXTREQUESTU		
Derivation Path:			
Encoding Rule Name:			
Encoding Variation:			
Comments:	Activate PDP Context Request		
	UE -> n		
	3GPP 24.008, 9.5.1		
	WA#sack M4014		

Field Name	Element Value	Type ...	Comments
ti	ct_TI_Any	Element Value	
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01000001'B		
requestedNSAPI	cr_NSAPI_v		
requestedLLC_SAPI	ct_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	ct_PktDataProtoAddrMO_iv (px_PDP_IP_AddrInfoDCH)		
accessPtName	ct_AccessPtNameAny IF_PRESENT		The GGSN logical name or the external packet data network logical name
protocolConfOpts	ct_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
<mark>**ETSI comment**</mark>	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 '*'.
<mark>**R&S conclusion**</mark>	Accepted

PDU Constraint Declaration

Constraint Name:	cr_ActPDP_ContextReqFACH_MO_RequestedQoS : QualityOfService_M		
Group:			
PDU Name:	ACTIVATEPDPCONTEXTREQUESTU		
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	ct_TI_Any		
sM_ProtocolDiscriminator	tsc_SMPD		
msgType	'01000001'B		
requestedNSAPI	cr_NSAPI_v		
requestedLLC_SAPI	ct_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	ct_PktDataProtoAddrMO_iv (px_PDP_IP_AddrInfoFACH)		
accessPtName	ct_AccessPtNameAny IF_PRESENT		The GGSN logical name or the external packet data network logical name
protocolConfOpts	ct_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

4.5 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	Not accepted.

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"

QoS settings are currently being discussed in MCC160 and among SS and UE manufacturers. Test case should be approved without these QoS settings for an interim period, until a common agreement on the correct settings has been reached.

	Test Step				

Test Step Id:	ts_AT_SetQoS				
Test Step Group Ref:	BasicM_UT_Steps/				
Objective:	This Step sets the QoS				
Defaults:	UT_OtherwiseFail				
Comments:	WA#BasicM4020 (closed) WA#RRC4071				

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
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

4.6 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. The Standard configuaration defined in 34.108, in cell FACH is only 32 kbps.
==R&S conclusion==	OK, if MIN QOS is changed in "ts_AT_OrgPS_Call"
	QoS settings are currently being discussed in MCC160 and among SS and UE manufacturers. Test case should be approved without these QoS settings for an interim period, until a common agreement on the correct settings has been reached.

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

4.7 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
<mark>**ETSI comment**</mark>	Not accepted. The Standard configuaration defined in 34.108, in cell FACH is only 32 kbps.
<mark>**R&S conclusion**</mark>	OK, if MIN QOS is changed in "ts_AT_OrgPS_Call"
	QoS settings are currently being discussed in MCC160 and among SS and UE manufacturers. Test case should be approved without these QoS settings for an interim period, until a common agreement on the correct settings has been reached.

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		
maxSDUSize	'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 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 gaurented bit rate is set equal to requested bit rate.
bitRateDnlink	'00'O		This will be neglected by UE as the class is interactive

4.8 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.

Test Step					
Test Step Id:	b_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 (cdld-1 (tsc_CellDedicated), WA#RRC307)				

Init	Label	Behaviour Description	Constraint Ref	Verdict	Comments
		[pa_CipheringOnOff]			
1		CRLC ! CRLC_Ciphering_Activate_REQ	(a_CRLC_UL_CipherAc(Req (tsc_CellDedicated , p_CN_Domain, p_RB_ActivationTimeInfoList)		configure ciphering for signaling radio bearers
2		CRLC ? CRLC_Ciphering_Activate_CNF	(a_CRLC_CipherActCnf(tsc_CellDedicated)		
0		[NOT (pa_CipheringOnOff)]			

4.9   Tc_8_4_1_16 (WA#RRC4126)

Test case name   tc_8_4_1_16

Reason for change   Only PS branch is under consideration for this test case.

Summary of change   Used test step "ts_RRC_InitVariablesPS" instead of "ts_RRC_InitVariables".

Source of change   new change

Label   WA#RRC4126

Test Case					
Test Case Id:	tc_8_4_1_16				
Test Group Reference:	RRC/RRC_Measurements/				
Purpose:	1. To confirm that after a state transition from idle mode to CELL_FACH state, the UE shall begin a traffic volume type measurement, as specified in System Information Block type 11 or 12 messages on BCCH.				
	2. To confirm that in CELL_FACH state, the UE shall send a MEASUREMENT REPORT message when reporting criteria is satisfied. During CELL_FACH state, if the UE receives a MEASUREMENT CONTROL, message, it shall perform the measurement and reporting tasks based on the MEASUREMENT CONTROL message received.				
Configuration					
Defaults:	RRC_Def				
Comments:					

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		START t_Guard			
2		[ps_RAT = fdd]			FDD specific behaviour
3		+ts_RRC_InitVariablesPS (cell_FACH)			WA#RRC4126
4		+ts_SS_CreateCellFACH (tsc_CellA)			
5		+tr_SendDef_sysinfo_MultiCellWithoutSIB			
		12 (tsc_CellA)			
6		+ts_IdleUpdated (tsc_CellA)			
7		=t_LocalTest			
8		+ po_ConnectionAndSS_Rels			the postamble to release the RRC connection and all the SS configuration
9		ESP1	[ps_RAT = fdd]			

4.10 ts_SendSIB7_NoSIB12_LongNeighCellInfo (WA#RRC4117)

Test step name   ts_SendSIB7_NoSIB12_LongNeighCellInfo

Reason for change   Resulting length of Seg1 & Seg2 (SIB7 & Sib3 respectively) will be greater than 201, because Seg1 is segmented in line 1 and thereby contains 226 bits after addition of padding bits.

Summary of change   In "ts_SendSIB7_NoSIB12_LongNeighCellInfo" line 1, the following change was done

from

"tcv_Segs := o_SIB_Segmentation(o_SIB_PER_Encoding (sIB7 : p_SIB)) "

to

"tcv_Segs.seg1 := o_SIB_PER_Encoding (sIB7 : p_SIB))".

i.e. the assignment of seg1 is done directly and "o_SIB_Segmentation" should not be used.

Source of change   new change

Label   WA#RRC4117

	Test Step			
Test Step Id:	ts_Send SIB7_NoSIB12_LongNeighCellInfo_SIB SysInfoType7, p_CellId: INTEGER, p_Timing: INTEGER)			
Test Step Group Ref:	BasicM_SysInfoHandling_StepsDefault_LongNeighCellInfoDefault'			
Objective	To deliver the SIB7 to SB			
Defaults:	IntOtherwiseFail			
Comments:	single SIB7 or concatenated with SIB3 or concatenated with SIB4 or concatenated with SIB13, default scheduling described in 3GPP TS 34.123-3 clause 8.4.3.1			

Nr	Label	Behaviour Description	Constraint Ref	Verdict	Comments
1		dcv_Segs.seg1 := s_SIB_PER_Encoding (s IB7, p_SIB0, tcv_SIB7 := p_SIB)			1. WA#RRC4117
2		[tcv_Segs.segCount == 1]		I	2.
3		[TRUE]			
4		+ts_Scheduling(p_CellId, 6, 15, p_Timing)			3.
5		CMACTCMAC_SYSINFO_Config_CNF	cs_SysInfoCfgConfig_CellId, tsc_RB_BCCH)		
6		+tf_CompleteSIB7			4.
7		+tf_ConcatWithSIB3			
8		+tf_ConcatWithSIB13			
9		+tf_ConcatWithSIB4			
tf_ConcatWithSIB3					
10		dcv_Segs.seg2 := s_SIB_PER_Encoding (s IB3, tcv_SIB3)			5.
11		[LENGTH_OF dcv_Segs.seg1) + LENGTH_ OF dcv_Segs.seg2) > 201]		I	6.
12		[TRUE]			
13		+ts_Scheduling(p_CellId, 6, 7, p_Timing)			7.
14		CMACTCMAC_SYSINFO_Config_CNF	cs_SysInfoCfgConfig_CellId, tsc_RB_		

4.11 cs_RRC_PagingType1_ModifySI (WA#RRC4170)

Constraint name	cs_RRC_PagingType1_ModifySI
Reason for change	The Paging Type 1 message uses "BCCH Modification time = 0". This IE should be set to OMIT to indicate that the change is immediate rather than using value 0, which corresponds to SFN=0.
Summary of change	Changed BCCH Modification time to 'OMIT'
Source of change	new change
Label	WA#RRC4170
ETSI comment	Accepted, done already
R&S conclusion	OK

ASN.1 PDU Constraint Declaration	
Constraint Name:	cs_RRC_PagingType1_ModifySI(p_mib_valuetag: MIB_ValueTag)
Group:	
PDU Name:	PCCH_Message
Derivation Path:	
Encoding Rule Name:	
Encoding Variation:	
Comments:	WA#RRC4170

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

5 Branches executed in test case 8.4.1.16

The PS branch of the test case implementation was 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 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_4_1_16-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_4_1_16-PS-pics-pixit.txt**
  Text file containing all PICS/PIXIT parameters used for PS testing.

7 References

[1]   **T1-031171**
        This archive comprises HTML Execution log files, PICS/PIXIT files and the TTCN MP file