

**Source:** T1  
**Title:** CRs to TS 34.123-3 (prose part, except Annex A) v.3.7.0, for approval  
**Agenda item:** 5.1.3  
**Document for:** Approval

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This document contains the CRs to TS 34.123-3 v.3.7.0. These CRs have been agreed by T1 and are put forward to TSG T for approval.

<i>Doc-2nd-Level</i>	<i>CR</i>	<i>Rev</i>	<i>Phase</i>	<i>Subject</i>	<i>Cat</i>	<i>Version-Current</i>	<i>Version-New</i>
T1-041694	460	-	R99	ASP change for Radio Link Modification	F	3.7.0	3.8.0
T1-041975	461	-	R99	ASP update and other corrections	F	3.7.0	3.8.0
T1-041976	462	-	R99	Addition of AT command lists used in ATSS	F	3.7.0	3.8.0

## CHANGE REQUEST

⌘ **34.123-3 CR 460** ⌘ rev - ⌘ Current version: **3.7.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

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


<b>Title:</b>	⌘ ASP change for Radio Link Modification		
<b>Source:</b>	⌘ Racal Instruments Wireless Solutions, an Aeroflex Company		
<b>Work item code:</b>	⌘ TEI	<b>Date:</b>	⌘ 21/10/2004
<b>Category:</b>	⌘ F	<b>Release:</b>	⌘ R99
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		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)

<b>Reason for change:</b>	⌘ <b>ASP Modification for Radio Link Modification</b> When requesting an SS to perform Radio Link modification, to allow for an efficient reconfiguration in all scenarios, it is necessary to inform the SS if a following Transport Channel reconfiguration is to take place. This requires an ASP change.
<b>Summary of change:</b>	⌘ The ASN type 'CphyRIModifyReq' within CPHY_RL_Modify_REQ, has been modified to include a flag 'trchConfigToFollow'. The flag has a default value set to TRUE. If the flag is not present, the next ASP request sent will be CPHY_TrCH_Config_REQ. If the flag is present, and set to FALSE, the next ASP request sent will not be CPHY_TrCH_Config_REQ.
<b>Consequences if not approved:</b>	⌘ If the ASP change is not made, this will lead to inefficient reconfiguration of SS.

<b>Clauses affected:</b>	⌘ 7.3.2.2.9										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X	X	X	X	X	X	⌘	
Y	N										
X	X										
X	X										
X	X										
<b>Other comments:</b>	⌘ This CR will have an impact on TTCN.										

**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.

## 7.3.2 Control PCO and ASP

### 7.3.2.2 Control ASP Type Definition

#### 7.3.2.2.9 CPHY\_RL\_Modify

ASN.1 ASP Type Definition	
<b>Type Name</b>	CPHY_RL_Modify_CNF
<b>PCO Type</b>	CSAP
<b>Comment</b>	To confirm to modify the Radio Link
Type Definition	
SEQUENCE	{
cellId	INTEGER(0..63),
routingInfo	RoutingInfo
}	

ASN.1 ASP Type Definition	
<b>Type Name</b>	CPHY_RL_Modify_REQ
<b>PCO Type</b>	CSAP
<b>Comment</b>	To request to modify the Radio Link HardHandover (PhysicalChannelReconfig) ChannelizationCodeChange FrequencyChange PhysicalChannelModifyForTrCHReconfig CompressedMode( PhysicalChannelReconfig) Re_Synchronized HardHandover SoftHandover
Type Definition	
SEQUENCE	{
cellId	INTEGER(0..63),
routingInfo	RoutingInfo,
ratType	RatType,
modifyMessage	CphyRlModifyReq
}	

ASN.1 Type Definition	
<b>Type Name</b>	CphyRlModifyReq
<b>Comment</b>	
Type Definition	
SEQUENCE	{
activationTime	SS_ActivationTime,
physicalChannelInfo	CHOICE {
dpch_CompressedModeStatusInfo	Dpch_CompressedModeStatusInfo,
secondaryCCPCHInfo	SecondaryCCPCHInfo,
pRACHInfo	PRACHInfo,
dPCHInfo	DPCHInfo,
}	
trchConfigToFollow	BOOLEAN DEFAULT TRUE
}	

ASN.1 Type Definition	
<b>Type Name</b>	SS_ActivationTime
<b>Comment</b>	
Type Definition	
CHOICE	{
activationCFN	ActivationTime,
activateNow	NULL
}	

CR-Form-v7

## CHANGE REQUEST

⌘ **34.123-3 CR 462** ⌘ rev - ⌘ Current version: **3.7.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

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

<b>Title:</b>	⌘ Addition of AT commnad lists used in ATs		
<b>Source:</b>	⌘ Ericsson, MCC task 160		
<b>Work item code:</b>	⌘ TEI	<b>Date:</b>	⌘ 5/11/2004
<b>Category:</b>	⌘ <b>F F</b>	<b>Release:</b>	⌘ <b>R99</b>
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	⌘ <b>Addition of AT command lists used in ATs for documentation.</b> A large number of AT commnads are used in ATs to trigger UE uplink access and to assist the automation of tests. These AT commands need to be documented.
<b>Summary of change:</b>	⌘ Add the lists of AT commands in ATs in 8.8.1.
<b>Consequences if not approved:</b>	⌘ The AT commnads used in ATs would not be documented.

<b>Clauses affected:</b>	⌘ 8.8.1										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications ⌘ Test specifications ⌘ O&M Specifications ⌘	Y	N	⌘	X	⌘	X	⌘	X		
Y	N										
⌘	X										
⌘	X										
⌘	X										
<b>Other comments:</b>	⌘										



## 8.8 AT commands

Table 1 shows a list of AT commands. By using these commands the ATs communicate with the SS for an automatic execution. The column "ATS" indicates in which ATS the command is used.

**Table 1: AT commands used in 3GPP ATs**

Command	Reference	ATS
+CGACT	3GPP TS 27.007 [Error! Reference source not found.]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS
+CGATT	3GPP TS 27.007 [Error! Reference source not found.]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS
+CGCMOD	3GPP TS 27.007 [Error! Reference source not found.]	NAS
+CGDCONT	3GPP TS 27.007 [Error! Reference source not found.]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS
+CGDSCONT	3GPP TS 27.007 [Error! Reference source not found.]	NAS
+CGEQREQ	3GPP TS 27.007 [Error! Reference source not found.]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS
+CLCC	3GPP TS 27.007 [Error! Reference source not found.]	NAS
+VTS	3GPP TS 27.007 [Error! Reference source not found.]	NAS
H	3GPP TS 27.007 [Error! Reference source not found.]	NAS, RAB, RRC, SMS
+CBST	3GPP TS 27.007 [Error! Reference source not found.]	NAS, RAB, RRC, SMS
+CMOD	3GPP TS 27.007 [Error! Reference source not found.]	NAS, RAB, RRC, SMS
A	3GPP TS 27.007 [Error! Reference source not found.]	NAS, RAB, RRC, SMS
D	3GPP TS 27.007 [Error! Reference source not found.]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS
+CGMD	3GPP TS 27.005 [Error! Reference source not found.]	SMS
+CGMF	3GPP TS 27.005 [Error! Reference source not found.]	SMS
+CGMR	3GPP TS 27.005 [Error! Reference source not found.]	SMS
+CMGW	3GPP TS 27.005 [Error! Reference source not found.]	SMS
+CMSS	3GPP TS 27.005 [Error! Reference source not found.]	NAS, RAB, RRC, SMS
+CPMS	3GPP TS 27.005 [Error! Reference source not found.]	SMS
+CSCA	3GPP TS 27.005	SMS

	[Error! Reference source not found.]	
+CSCS	3GPP TS 27.005 [Error! Reference source not found.]	SMS
+CSMS	3GPP TS 27.005 [Error! Reference source not found.]	SMS

## 8.8.1 AT command lists in ATs

### 8.8.1.1 AT commands in IR\_U ATs:

Command	Syntax in TTCN	Comments
<a href="#">CBST</a>	<a href="#">AT+CBST=[&lt;speed&gt;[,&lt;name&gt;[,&lt;ce&gt;]]]&lt;CR&gt;</a> <a href="#">&lt;speed&gt;=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,82,83,84,115,116,120,121</a> <a href="#">&lt;name&gt;=0,1,4,5</a> <a href="#">&lt;ce&gt;=0,1</a>	<a href="#">Select bearer service type</a> <a href="#">TS 27.007 clause 6.7</a>
<a href="#">CGACT</a>	<a href="#">AT+CGACT=1,1&lt;CR&gt;</a> <a href="#">AT+CGACT=0,1&lt;CR&gt;</a>	<a href="#">PDP context activate or deactivate, TS 27.007 clause 10.1.10</a>
<a href="#">CGATT</a>	<a href="#">AT+CGATT=1&lt;CR&gt;</a>	<a href="#">PS attach or detach, TS 27.007 clause 10.1.9</a>
<a href="#">CGDSCONT</a>	<a href="#">AT+CGDSCONT= 1,&lt;CR&gt;</a> <a href="#">AT+ CGDSCONT=1 , 1, iIPi, 0,0,&lt;CR&gt;</a>	<a href="#">Establish secondary PDP Context, TS 27.007 clause 10.1.2</a>
<a href="#">CGEQREQ</a>	<a href="#">AT+CGEQREQ=1,2,64,64,,,1,320,i1E4i,i1E5i,1,,3&lt;CR&gt;</a> <a href="#">AT+CGEQREQ=1,3,64,64,,,1,320,i1E4i,i1E5i,1,,&lt;CR&gt;</a>	<a href="#">Quality of Service Profile (Requested), TS 27.007 clause 10.1.4</a>
<a href="#">CMOD</a>	<a href="#">AT+CMOD=0&lt;CR&gt;</a> <a href="#">AT+CMOD=1&lt;CR&gt;</a>	<a href="#">Call mode, TS 27.007 clause 6.4</a>
<a href="#">CMSS</a>	<a href="#">AT+CMSS=000&lt;CR&gt;</a> <a href="#">AT+CMSS=001&lt;CR&gt;</a> <a href="#">AT+CMSS=002&lt;CR&gt;</a>	<a href="#">Send Message from Storage, TS 27.005 clause 3.5.2</a>

### 8.8.1.2 AT commands in MAC and RLC ATs:

Command	Syntax in TTCN	Comments
<a href="#">CGATT</a>	<a href="#">AT+CGATT=1&lt;CR&gt;</a>	<a href="#">PS attach or detach, TS 27.007 clause 10.1.9</a>



### 8.8.1.3 AT commands in NAS ATS:

Command	Syntax in TTCN	Comments
<a href="#">CBST</a>	<a href="#">AT+CBST=[&lt;speed&gt;[,&lt;name&gt;[,&lt;ce&gt;]]]&lt;CR&gt;</a> <a href="#">&lt;speed&gt;=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,82,83,84,115,116,120,121</a> <a href="#">&lt;name&gt;=0,1,4,5</a> <a href="#">&lt;ce&gt;=0,1</a>	Select bearer service type, TS 27.007 clause 6.7
<a href="#">CGACT</a>	<a href="#">AT+CGACT=1,1&lt;CR&gt;</a> <a href="#">AT+CGACT=0,1&lt;CR&gt;</a>	PDP context activate or deactivate, TS 27.007 clause 10.1.10
<a href="#">CGATT</a>	<a href="#">AT+CGATT=1&lt;CR&gt;</a> <a href="#">AT+CGATT=0&lt;CR&gt;</a>	PS attach or detach, TS 27.007 clause 10.1.9
<a href="#">CGDATA</a>	<a href="#">AT+CGDATA=PPP,1&lt;CR&gt;</a>	Enter data state, TS 27.007 clause 10.1.12
<a href="#">CGDCONT</a>	<a href="#">AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0&lt;CR&gt;</a> <a href="#">AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0&lt;CR&gt;</a>	Define PDP Context, TS 27.007 clause 10.1.1
<a href="#">CGDSCONT</a>	<a href="#">AT+CGDSCONT= 1,&lt;CR&gt;</a> <a href="#">AT+ CGDSCONT=1, 1, "IP", 0,0,&lt;CR&gt;</a>	Establish secondary PDP Context, TS 27.007 clause 10.1.2
<a href="#">CGEQMIN</a>	<a href="#">AT+CGEQMIN=1,3,32,32,...,1,320,1E3i,1E3i,1,...&lt;CR&gt;</a> <a href="#">AT+CGEQMIN=1,3,64,64,...,1,320,1E3i,1E3i,1,...&lt;CR&gt;</a> <a href="#">AT+CGEQMIN=1,2,32, 32, 32, 32, 1, 320, 1E4,6E8,1,...&lt;CR&gt;</a> <a href="#">AT+CGEQMIN=1,3,32, 32, 32, 32, 1, 320, 1E4,6E8,1,...&lt;CR&gt;</a> <a href="#">AT+CGEQMIN=1,2,32, 32, 32, 32, 1, 320, 1E3,6E8,1,...&lt;CR&gt;</a> <a href="#">AT+CGEQMIN=1,3,32, 32, 32, 32, 1, 320, 1E3,6E8,1,...&lt;CR&gt;</a> <a href="#">AT+CGEQMIN=1,2,64, 64, 64, 64, 1, 320, 1E3,6E8,1,...&lt;CR&gt;</a> <a href="#">AT+CGEQMIN=1,3,64, 64, 64, 64, 1, 320, 1E3,6E8,1,...&lt;CR&gt;</a>	Quality of Service Profile (Minimum acceptable), TS 27.007 clause 10.1.4
<a href="#">CGEQREQ</a>	<a href="#">AT+CGEQREQ=1,2,64,64,...,1,320,"1E4","1E5",1,...&lt;CR&gt;</a> <a href="#">AT+CGEQREQ=1,3,64,64,...,1,320,"1E4","1E5",1,...&lt;CR&gt;</a> <a href="#">AT+CGEQREQ=1,2,64, 64, 64, 64, 1, 320, 1E4,6E8,1,...&lt;CR&gt;</a> <a href="#">AT+CGEQREQ=1,3,64, 64, 64, 64, 1, 320, 1E4,6E8,1,...&lt;CR&gt;</a>	Quality of Service Profile (Requested), TS 27.007 clause 10.1.4
<a href="#">CLCC</a>	<a href="#">AT+CLCC&lt;CR&gt;</a>	List current calls, TS 27.007 clause 7.18
<a href="#">CMOD</a>	<a href="#">AT+CMOD=0&lt;CR&gt;</a> <a href="#">AT+CMOD=1&lt;CR&gt;</a>	Call mode, TS 27.007 clause 6.4
<a href="#">CMSS</a>	<a href="#">AT+CMSS=000&lt;CR&gt;</a> <a href="#">AT+CMSS=001&lt;CR&gt;</a> <a href="#">AT+CMSS=002&lt;CR&gt;</a>	Send Message from Storage, TS 27.005 clause 3.5.2
<a href="#">VTS</a>	<a href="#">AT+VTS=0,100&lt;CR&gt;</a> <a href="#">AT+VTS=1,50&lt;CR&gt;</a> <a href="#">AT+VTS=2,60&lt;CR&gt;</a> <a href="#">AT+VTS=3,40&lt;CR&gt;</a> <a href="#">AT+VTS=4,50&lt;CR&gt;</a> <a href="#">AT+VTS=5,60&lt;CR&gt;</a> <a href="#">AT+VTS=6,70&lt;CR&gt;</a> <a href="#">AT+VTS=7,80&lt;CR&gt;</a> <a href="#">AT+VTS=8,90&lt;CR&gt;</a> <a href="#">AT+VTS=9,100&lt;CR&gt;</a> <a href="#">AT+VTS=#,110&lt;CR&gt;</a> <a href="#">AT+VTS=*,120&lt;CR&gt;</a> <a href="#">AT+VTS=A,130&lt;CR&gt;</a> <a href="#">AT+VTS=B,140&lt;CR&gt;</a> <a href="#">AT+VTS=C,150&lt;CR&gt;</a> <a href="#">AT+VTS=D,200&lt;CR&gt;</a>	DTMF and tone generation, TS 27.007 clause C.2.11

8.8.1.4 AT commands in RAB ATS:

<u>Command</u>	<u>Syntax in TTCN</u>	<u>Comments</u>
<u>CBST</u>	<u>AT+CBST=[&lt;speed&gt;[,&lt;name&gt;[,&lt;ce&gt;]]]&lt;CR&gt;</u> <u>&lt;speed&gt;=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,82,83,84,115,116,120,121</u> <u>&lt;name&gt;=0,1,4,5</u> <u>&lt;ce&gt;=0,1</u>	<u>Select bearer service type</u> <u>TS 27.007 clause 6.7</u>
<u>CGACT</u>	<u>AT+CGACT=1,1&lt;CR&gt;</u> <u>AT+CGACT=0,1&lt;CR&gt;</u>	<u>PDP context activate or deactivate, TS 27.007 clause 10.1.10</u>
<u>CGATT</u>	<u>AT+CGATT=1&lt;CR&gt;</u>	<u>PS attach or detach, TS 27.007 clause 10.1.9</u>
<u>CGDCONT</u>	<u>AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0&lt;CR&gt;</u> <u>AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0&lt;CR&gt;</u>	<u>Define PDP Context, TS 27.007 clause 10.1.1</u>
<u>CGDSCONT</u>	<u>AT+CGDSCONT= 1,&lt;CR&gt;</u> <u>AT+ CGDSCONT=1 , 1, ìIPì, 0,0,&lt;CR&gt;</u>	<u>Establish secondary PDP Context, TS 27.007 clause 10.1.2</u>
<u>CGEQREQ</u>	<u>AT+CGEQREQ=1,2,64,64,,,1,320,ì1E4ì,ì1E5ì,1,,3&lt;CR&gt;</u> <u>AT+CGEQREQ=1,3,64,64,,,1,320,ì1E4ì,ì1E5ì,1,,&lt;CR&gt;</u>	<u>Quality of Service Profile (Requested), TS 27.007 clause 10.1.4</u>
<u>CMOD</u>	<u>AT+CMOD=0&lt;CR&gt;</u> <u>AT+CMOD=1&lt;CR&gt;</u>	<u>Call mode, TS 27.007 clause 6.4</u>
<u>CMSS</u>	<u>AT+CMSS=000&lt;CR&gt;</u> <u>AT+CMSS=001&lt;CR&gt;</u> <u>AT+CMSS=002&lt;CR&gt;</u>	<u>Send Message from Storage, TS 27.005 clause 3.5.2</u>

8.8.1.5 AT commands in RRC ATS:

<u>Command</u>	<u>Syntax in TTCN</u>	<u>Comments</u>
<u>ATA</u>	<u>ATA&lt;CR&gt;</u>	<u>Answer a call, TS 27.007 clause 6.35</u>
<u>ATD</u>	<u>ATD0123456902:&lt;CR&gt;</u> <u>ATD112:&lt;CR&gt;</u> <u>ATD0123456902&lt;CR&gt;</u>	<u>Originates a call, TS 27.007 clause 6.31</u>
<u>ATH</u>	<u>ATH&lt;CR&gt;</u>	<u>Hang-up a single mode call, TS 27.007 clause 6.3</u>
<u>CBST</u>	<u>AT+CBST=[&lt;speed&gt;[,&lt;name&gt;[,&lt;ce&gt;]]]&lt;CR&gt;</u> <u>&lt;speed&gt;=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,82,83,84,115,116,120,121</u> <u>&lt;name&gt;=0,1,4,5</u> <u>&lt;ce&gt;=0,1</u>	<u>Select bearer service type</u> <u>TS 27.007 clause 6.7</u>
<u>CGACT</u>	<u>AT+CGACT=1,1&lt;CR&gt;</u> <u>AT+CGACT=0,1&lt;CR&gt;</u>	<u>PDP context activate or deactivate, TS 27.007 clause 10.1.10</u>
<u>CGATT</u>	<u>AT+CGATT=1&lt;CR&gt;</u>	<u>PS attach or detach, TS 27.007 clause 10.1.9</u>
<u>CGDCONT</u>	<u>AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0&lt;CR&gt;</u> <u>AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0&lt;CR&gt;</u>	<u>Define PDP Context, TS 27.007 clause 10.1.1</u>
<u>CGDSCONT</u>	<u>AT+CGDSCONT= 1,&lt;CR&gt;</u> <u>AT+ CGDSCONT=1 , 1, ìIPì, 0,0,&lt;CR&gt;</u>	<u>Establish secondary PDP Context, TS 27.007 clause 10.1.2</u>
<u>CGEQREQ</u>	<u>AT+CGEQREQ=1,2,64,64,,,1,320,ì1E4ì,ì1E5ì,1,,3&lt;CR&gt;</u> <u>AT+CGEQREQ=1,3,64,64,,,1,320,ì1E4ì,ì1E5ì,1,,&lt;CR&gt;</u>	<u>Quality of Service Profile (Requested), TS 27.007 clause 10.1.4</u>
<u>CMOD</u>	<u>AT+CMOD=0&lt;CR&gt;</u> <u>AT+CMOD=1&lt;CR&gt;</u>	<u>Call mode, TS 27.007 clause 6.4</u>
<u>CMSS</u>	<u>AT+CMSS=000&lt;CR&gt;</u> <u>AT+CMSS=001&lt;CR&gt;</u> <u>AT+CMSS=002&lt;CR&gt;</u>	<u>Send Message from Storage, TS 27.005 clause 3.5.2</u>

### 8.8.1.6 AT commands SMS ATs:

<u>Command</u>	<u>Syntax in TTCN</u>	<u>Comments</u>
<u>CBST</u>	<u>AT+CBST=[&lt;speed&gt;[,&lt;name&gt;[,&lt;ce&gt;]]]&lt;CR&gt;</u> <u>&lt;speed&gt;=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,82,83,84,115,116,120,121</u> <u>&lt;name&gt;=0,1,4,5</u> <u>&lt;ce&gt;=0,1</u>	<u>Select bearer service type</u> <u>TS 27.007 clause 6.7</u>
<u>CGACT</u>	<u>AT+CGACT=1,1&lt;CR&gt;</u> <u>AT+CGACT=0,1&lt;CR&gt;</u>	<u>PDP context activate or deactivate, TS 27.007 clause 10.1.10</u>
<u>CGATT</u>	<u>AT+CGATT=1&lt;CR&gt;</u>	<u>PS attach or detach, TS 27.007 clause 10.1.9</u>
<u>CGDCONT</u>	<u>AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0&lt;CR&gt;</u> <u>AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0&lt;CR&gt;</u>	<u>Define PDP Context, TS 27.007 clause 10.1.1</u>
<u>CGDSCONT</u>	<u>AT+CGDSCONT= 1,&lt;CR&gt;</u> <u>AT+ CGDSCONT=1 , 1, "IP", 0,0.&lt;CR&gt;</u>	<u>Establish secondary PDP Context, TS 27.007 clause 10.1.2</u>
<u>CGEQREQ</u>	<u>AT+CGEQREQ=1,2,64,64,...,1,320,î1E4î,î1E5î,1,..,3&lt;CR&gt;</u> <u>AT+CGEQREQ=1,3,64,64,...,1,320,î1E4î,î1E5î,1,..&lt;CR&gt;</u>	<u>Quality of Service Profile (Requested), TS 27.007 clause 10.1.4</u>
<u>CGSMS</u>	<u>AT+CGSMS=1&lt;CR&gt;</u> <u>AT+CGSMS=0&lt;CR&gt;</u>	<u>Select service for MO SM messages, TS 27.007 clause 10.1.20</u>
<u>CMGD</u>	<u>AT+CMGD=001&lt;CR&gt;</u> <u>AT+CMGD=1,4&lt;CR&gt;</u>	<u>Delete Message, TS 27.005 clause 3.5.4</u>
<u>CMGF</u>	<u>AT+CMGF=1&lt;CR&gt;</u>	<u>Message Format, TS 27.005 clause 3.2.3</u>
<u>CMGR</u>	<u>AT+CMGR=001&lt;CR&gt;</u> <u>AT+CMGR=002&lt;CR&gt;</u> <u>AT+CMGR=003&lt;CR&gt;</u> <u>AT+CMGR=004&lt;CR&gt;</u>	<u>Read Message, TS 27.005 clause 3.4.3</u>
<u>CMGW</u>	<u>AT+CMGW= î111111111î,129, "The quick brown fox jumps over the lazy dog's back. Kaufen Sie Ihrer Frau vier bequeme Pelze. - 0123456789 - THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG'S BACK."&lt;CR&gt;</u>	<u>Write Message to Memory, TS 27.005 clause 3.5.3</u>
<u>CMMS</u>	<u>AT+CMMS=1&lt;CR&gt;</u>	<u>More Messages to Send, TS 27.005 clause 3.5.6</u>
<u>CMOD</u>	<u>AT+CMOD=0&lt;CR&gt;</u> <u>AT+CMOD=1&lt;CR&gt;</u>	<u>Call mode, TS 27.007 clause 6.4</u>
<u>CMSS</u>	<u>AT+CMSS=000&lt;CR&gt;</u> <u>AT+CMSS=001&lt;CR&gt;</u> <u>AT+CMSS=002&lt;CR&gt;</u>	<u>Send Message from Storage, TS 27.005 clause 3.5.2</u>
<u>CPMS</u>	<u>AT+CPMS=îSMî,îSMî,îMTî&lt;CR&gt;</u> <u>AT+CPMS=îCBî,îCBî,îCBî&lt;CR&gt;</u>	<u>Preferred Message Storage, TS 27.005 clause 3.2.2</u>
<u>CSCA</u>	<u>AT+CSCA="222222222",129&lt;CR&gt;</u>	<u>Service Centre Address, TS 27.005 clause 3.3.1</u>
<u>CSCS</u>	<u>AT+CSCS="GSM"&lt;CR&gt;</u>	<u>Select TE character set, TS 27.007 clause 5.5</u>
<u>CSMS</u>	<u>AT+CSMS=0&lt;CR&gt;</u>	<u>Select Message Service, TS 27.005 clause 3.2.1</u>

## CHANGE REQUEST

⌘ 34.123-3 CR 461 ⌘ rev ⌘ Current version: 3.7.0 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

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

<b>Title:</b>	⌘ ASP updating and other corrections		
<b>Source:</b>	⌘ MCC task 160		
<b>Work item code:</b>	⌘ TEI	<b>Date:</b>	⌘ 3/11/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ R99
Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		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)	

<b>Reason for change:</b>	⌘ <b>1 NewASP for TFCI detection</b> In test case 7.1.3.2, the test purpose requires to check whether the data from different transport channels are transmitted in the same frame. There is no such function in current ASP definition, it is proposed to add a new ASP to support the requirement. <b>2. NewASP for set RRC Count_I</b> Per default the MSB (28 bits each for UL & DL) of COUNT I are omitted in TTCN and shall be initialized by the START value by SS. The MSB parameters are applied for a few specific security test cases requiring restoration or manipulation of the used integrity context. The new ASP shall be served for this purpose. <b>3.Additional RB id mapping between prose and TTCN is provided for completeness.</b> <b>4. Update PIXIT and TSO table for three reasons</b> a) GERAN related PIXIT and TSO are moved to 51.010-5. b) Not used PIXIT and TSO are removed. c) New added PIXIT and TSO are included in the table. <b>5. Correction of a reference for SMSCB test method</b>
<b>Summary of change:</b>	⌘ 1. A new ASP CPHY_Detect_TFCI is added in 7.3.2.2.3b. The SS is required to detect an indicated TFCI. 2. A new ASP CRLC_Set_Count_I is added in 7.3.2.2.28b. 3. RB id mapping table in 8.2.4 is updated. 4. TSO tables in 8.7.2, 8.7.4 and PIXIT in annex B1.1, B1.2, B1.3, B1.4, B1.8 and B1.11 are updated according to the change in TTCN for documentation. 5. The reference number in 6.6.3 is corrected.

**Consequences if not approved:**

⌘ The prioritised 7.1.3.2 and a few security test cases would not be testable.

**Clauses affected:**

⌘ 6.6.3, 7.3.2.2.3a, 7.3.2.2.3b, 7.3.2.2.28b, 8.2.4, 8.7.2, 8.7.4, annex B1.1, B1.2, B1.3, B1.4, B1.8 and B1.11

**Other specs affected:**

Y	N
	X
X	
	X

Other core specifications  
Test specifications  
O&M Specifications

⌘ TTCN affected

**Other comments:**

⌘

### 6.6.3 SMS Cell broadcasting test method and architecture

The test method used for SMS CB tests is the same as the BMC test method, see clause 6.8, and the same ASPs, see clause 7.3.1.1-2.

#### 7.3.2.2.3a CPHY Cell TimingAdjust

tbd

#### 7.3.2.2.3b CPHY Detect TFCI

ASN.1 ASP Type Definition	
<b>Type Name</b>	CPHY_DetectTFCI_CNF
<b>PCO Type</b>	CSAP
<b>Comment</b>	To confirm to CPHY_DetectTFCI_REQ
Type Definition	
SEQUENCE	{
cellId	INTEGER(0..63) ,
routingInfo	RoutingInfo
	}

ASN.1 ASP Type Definition	
<b>Type Name</b>	CPHY_DetectTFCI_REQ
<b>PCO Type</b>	CSAP
<b>Comment</b>	To set the mode of the SS for detecting whether the specified TFCI value occurred. Usage: At the SS initialisation, the default mode is stop. When the mode is set to start, the SS shall detect whether the specified TFCI value (tfcivalue) happens on the specified uplink physical channel, when happened the SS generates a CPHY_TFCI_Detected_IND and stop further detection. Otherwise keeps monitoring until a CPHY_DetectTFCI_REQ with mode = stop received.
Type Definition	
SEQUENCE	{
cellId	INTEGER(0..63) ,
routingInfo	RoutingInfo ,
mode	ENUMERATED{start(0), stop(1)} ,
tfcivalue	INTEGER (0..1023)
	}

ASN.1 ASP Type Definition	
<b>Type Name</b>	CPHY_TFCI_Detected_IND
<b>PCO Type</b>	CSAP
<b>Comment</b>	To indicate the TFCI value specified in the CPHY_DetectTFCI_REQ has been detected.
Type Definition	
SEQUENCE	{
cellId	INTEGER(0..63) ,
routingInfo	RoutingInfo
	}

7.3.2.2.28b CRLC Set Count I

<u>ASN.1 ASP Type Definition</u>	
<u>Type Name</u>	CRLC Set Count I CNF
<u>PCO Type</u>	CSAP
<u>Comment</u>	To confirm the count_I_MSB and the RRC message sequence number setting request
<u>Type Definition</u>	
SEQUENCE	{
cellId	INTEGER(-1..63),
routingInfo	RoutingInfo
	}

<u>ASN.1 ASP Type Definition</u>	
<u>Type Name</u>	CRLC Set Count I REQ
<u>PCO Type</u>	CSAP
<u>Comment</u>	To request the SS to set the 28 MSB and 4 LSB (RRC message sequence number) in COUNT-I according to the parameter values specified in this ASP. Parameters omitted in this ASP shall leave the corresponding bits in the SS COUNT-I unchanged. Typically the parameters count_I_MSB_UL and count_I_MSB_DL are omitted. They are only applied in a few specific security test cases requiring restoration of the used integrity context. Note: The 28 MSBs are initialized with the UE-provided START value plus 8 bits set to 0, using a different ASP (CRLC SecurityMode Config REQ).
<u>Type Definition</u>	
SEQUENCE	{
cellId	INTEGER(-1..63),
routingInfo	RoutingInfo,
count_I_LSB_UL	RRC_SequenceNumber OPTIONAL,
count_I_LSB_DL	RRC_SequenceNumber OPTIONAL,
count_I_MSB_UL	COUNT_I_MSB OPTIONAL,
count_I_MSB_DL	COUNT_I_MSB OPTIONAL
	}

8.2.4 Radio bearers

Table 1: Radio bearer identities

Identities (value assigned)	Direction	Type	RLC mode	Service domain	Comments
tsc_RB_BCCH (-1)	downlink		TM	NA	BCCH-BCH
tsc_RB_PCCH (-2)	downlink		TM	NA	PCCH PCH
tsc_RB_BCCH_FACH (-3)	downlink		TM	NA	BCCH FACH
tsc_RB_2ndPCCH (-4)	downlink		TM	NA	Second PCCH PCH SCPCCH
tsc_RB_2ndCCCH (-5)	uplink		TM	NA	Second CCCH RACH PRACH
tsc_RB_UM_7_RLC (-10)	downlink	RAB	TM	CS	For UM RLC tests using 7 bit LIs
tsc_RB_UM_7_RLC (-10)	uplink	RAB	TM	CS	For UM RLC tests using 7 bit LIs
tsc_RB_UM_15_RLC (-11)	downlink	RAB	TM	CS	For UM RLC tests using 15 bit LIs
tsc_RB_UM_15_RLC (-11)	uplink	RAB	TM	CS	For UM RLC tests using 15 bit LIs
tsc_RB_AM_7_RLC (-12)	downlink	RAB	TM	CS	For AM RLC tests using 7 bit LIs
tsc_RB_AM_7_RLC (-12)	uplink	RAB	TM	CS	For AM RLC tests using 7 bit LIs
tsc_RB_AM_15_RLC (-13)	downlink	RAB	TM	CS	For AM RLC tests using 15 bit LIs
tsc_RB_AM_15_RLC (-13)	uplink	RAB	TM	CS	For AM RLC tests using 15 bit LIs
tsc_RB_DCCH_FACH_MAC (-14)	downlink	SRB3	TM	CS	For MAC tests using DCCH mapped to FACH
tsc_RB_DCCH_FACH_MAC (-14)	uplink	SRB3	TM	CS	For MAC tests using DCCH mapped to FACH
tsc_RB_DCCH_DCH_MAC (-15)	downlink	SRB3	TM	CS	For MAC tests using DCCH mapped to DCH
tsc_RB_DCCH_FACH_MAC (-15)	uplink	SRB3	TM	CS	For MAC tests using DCCH mapped to DCH
tsc_RB3_DCCH_RRC_(-16)	uplink	SRB3	AM	CS or PS	For RRC test cases to route UL NAS messages

Identities (value assigned)	Direction	Type	RLC mode	Service domain	Comments
tsc_RB_CCCH_FACH_MAC (-18)	downlink	SRB0	TM	CS or PS	For MAC test using downlink SRB0 on TM
tsc_RB_BCCH_FACH_RAB (-19)	downlink		TM	NA	BCCH FACH
tsc_RB0 (0)	uplink	SRB0	TM	CS or PS	The service domain for which the most recent security negotiation took place. CCCH
tsc_RB0 (0)	downlink	SRB0	UM	CS or PS	CCCH
tsc_RB1 (1)	uplink	SRB1	UM	CS or PS	DCCH
tsc_RB1 (1)	downlink	SRB1	UM	CS or PS	DCCH
tsc_RB2 (2)	uplink	SRB2	AM	CS or PS	DCCH
tsc_RB2 (2)	downlink	SRB2	AM	CS or PS	DCCH
tsc_RB3 (3)	uplink	SRB3	AM	CS or PS	DCCH
tsc_RB3 (3)	downlink	SRB3	AM	CS or PS	DCCH
tsc_RB4 (4)	uplink	SRB4	AM	CS or PS	DCCH
tsc_RB4 (4)	downlink	SRB4	AM	CS or PS	DCCH
tsc_RB5 (5)	uplink		TM		DCCH
tsc_RB5 (5)	downlink		TM		DCCH
tsc_RB10 (10)	uplink	RAB#1-1	TM	CS	or RAB1
tsc_RB10 (10)	downlink	RAB#1-1	TM	CS	or RAB1
tsc_RB11 (11)	uplink	RAB#1-2	TM	CS	or RAB2
tsc_RB11 (11)	downlink	RAB#1-2	TM	CS	or RAB2
tsc_RB12 (12)	uplink	RAB#1-3	TM	CS	
tsc_RB12 (12)	downlink	RAB#1-3	TM	CS	
tsc_RB13 (13)	uplink	RAB#2	TM	CS	
tsc_RB13 (13)	downlink	RAB#2	TM	CS	
tsc_RB20 (20)	uplink	RAB#1	AM	PS	
tsc_RB20 (20)	downlink	RAB#1	AM	PS	
tsc_RB21 (21)	uplink	RAB#2	UM	PS	
tsc_RB21 (21)	downlink	RAB#2	UM	PS	
tsc_RB22 (22)	uplink	RAB#2	AM	PS	
tsc_RB22 (22)	downlink	RAB#2	AM	PS	
tsc_RB30 (30)	downlink		UM		CTCH FACH
tsc_RB31 (31)	downlink		UM		Second CTCH FACH

The RB values 0 to 5 are used for the signalling bearers. The values 10 to 15 are assigned to the CS RAB sub-flows. The values 20 to 25 are assigned to the PS RAB sub-flows. The value 30 is assigned to the CBSMS/BMC service.

**Table 2: RB identities mapping between 34.123-1 & 34.123-3**

	Single-CS RAB	Single-PS RAB	Multi-RAB-Configuration				
			CS			PS	
<b>34.123-1</b>	<b>RB5</b>	<b>RB5</b>	<b>RB5</b>	<b>RB6</b>	<b>RB7</b>	<b>RB8</b>	<b>RB9</b>
<b>34.123-3</b>	<b>tsc_RB10</b>	<b>tsc_RB20</b>	<b>tsc_RB10</b>	<b>tsc_RB11</b>	<b>tsc_RB12</b>	<b>tsc_RB20</b>	<b>tsc_RB22</b>



<u>RAB Combinations</u>	<u>34.123-1</u>	<u>34.123-3</u>
<u>Single CS RAB</u>	<u>RB5</u>	<u>tsc RB10</u>
	<u>RB6</u>	<u>tsc RB11</u>
	<u>RB7</u>	<u>tsc RB12</u>
<u>Single PS RAB</u>	<u>RB5</u>	<u>tsc RB20</u>
	<u>RB7</u>	<u>tsc RB20</u>
	<u>RB8</u>	<u>tsc RB20</u>
<u>CS+PS Multi RABs</u>	<u>RB5</u>	<u>tsc RB10</u>
	<u>RB6</u>	<u>tsc RB11, tsc RB20</u>
	<u>RB7</u>	<u>tsc RB12</u>
	<u>RB8</u>	<u>tsc RB20</u>
	<u>RB9</u>	<u>tsc RB22</u>
<u>CS+CS Multi RABs</u>	<u>RB5</u>	<u>tsc RB10</u>
	<u>RB6</u>	<u>tsc RB11</u>
	<u>RB7</u>	<u>tsc RB12</u>
	<u>RB8</u>	<u>tsc RB13</u>
<u>PS+PS Multi RABs</u>	<u>RB5</u>	<u>tsc RB20</u>
	<u>RB6</u>	<u>tsc RB22</u>
	<u>RB7</u>	<u>tsc RB20</u>
	<u>RB8</u>	<u>tsc RB24</u>

### 8.7.2 Specific test suite operation definitions for Multi RAT Handover testing

**Table 3: TSO definitions for Multi RAT handover**

<b>TSO Name</b>	<b>Description</b>
<u>e_GetEstCauRandomRef</u> <u>o_O_CheckClassmark3</u>	<p><b>Type of the result:</b> <u>B_8</u></p> <p><b>Parameters:</b> <u>p_msg : CHANNELREQUEST</u></p> <p><b>Description</b> Returns the Eight bits of the EstCauRandomRef of the PDU CHANNELREQUEST. <b>Type of the result:</b> <u>BOOLEAN</u></p> <p><b>Parameters:</b> <u>p_FromUE : OCTETSTRING</u> <u>p_FDD, p_TDD, p_P_GSM_900_BAND, p_E_GSM_900_BAND : BOOLEAN</u> <u>p_R_GSM_900_BAND, p_DCS_1800_BAND, p_GSM_450_BAND : BOOLEAN</u> <u>p_GSM_480_BAND, p_GSM_850_BAND, p_TypeGSMClass2 : BOOLEAN</u> <u>p_TypeGSMClass3, p_TypeGSMClass4, p_TypeGSMClass5 : BOOLEAN</u> <u>p_TypeDCSClass1, p_TypeDCSClass2, p_TypeDCSClass3 : BOOLEAN</u> <u>p_TypePCSClass1, p_TypePCSClass2, p_TypePCSClass3 : BOOLEAN</u> <u>p_TypeGSM850Class2, p_TypeGSM850Class3, p_TypeGSM850Class4 : BOOLEAN</u> <u>p_TypeGSM850Class5, p_DTM_Multislotclass5, p_DTM_Multislotclass9 : BOOLEAN</u> <u>p_DTM_SingleSlotAllocation, p_EOTD_Assist, p_A_GPS_Assist : BOOLEAN</u> <u>p_A_GPS_Based, p_Conv_GPS, p_EOTD_Based : BOOLEAN</u> <u>p_MultiSlotClass, p_EGPRS_MultiSlotClass : B5</u> <u>p_SMS_Value, p_SM_Value, p_GSM400_RadioCapability : B4</u> <u>p_RGSM_RadioCapability : B3</u> <u>p_DTM_EGPRS_MultiSlotSubClass, p_EDGE_PwrCap1, p_EDGE_PwrCap2 : B2</u> <u>p_MS_CismkA5_4, p_MS_CismkA5_5, p_MS_CismkA5_6, p_MS_CismkA5_7 : B1</u> <u>p_CDMA2000, p_ExtMeasCap, p_ModulationCapability, p_UCS2Treatment : B1</u></p> <p><b>Description</b> This is exactly the same as <u>o_P_CheckClassmark3</u> except the first parameter is different. This version is used when UE sends an OCTETSTRING in UE Capability Information</p> <p>To check each bit of the received octetstring from the UE against the CSN.1 format constraint. The format of the Classmark3 IE is as follows:</p> <pre>&lt;Classmark 3 Value part&gt; ::= &lt; spare bit &gt; {&lt; Multiband supported : { 000 } &gt;   &lt; A5 bits &gt;  &lt; Multiband supported : { 101   110 } &gt;   &lt; A5 bits &gt;   &lt; Associated Radio Capability 2 : bit(4) &gt;</pre>

TSO Name	Description
	<p> <a href="#">&lt; Associated Radio Capability 1 : bit(4) &gt;</a>  <a href="#"> &lt; Multiband supported : { 001   010   100 } &gt;</a>  <a href="#">&lt; A5 bits &gt;</a>  <a href="#">&lt; spare bit &gt;(4)</a>  <a href="#">&lt; Associated Radio Capability 1 : bit(4) &gt; }</a>  <a href="#">{ 0   1 &lt; R Support &gt; }</a>  <a href="#">{ 0   1 &lt; Multi Slot Capability &gt; }</a>  <a href="#">&lt; UCS2 treatment: bit &gt;</a>  <a href="#">&lt; Extended Measurement Capability : bit &gt;</a>  <a href="#">{ 0   1 &lt; MS measurement capability &gt; }</a>  <a href="#">{ 0   1 &lt; MS Positioning Method Capability &gt; }</a>  <a href="#">{ 0   1 &lt; EDGE Multi Slot Capability &gt; }</a>  <a href="#">{ 0   1 &lt; EDGE Struct &gt; }</a>  <a href="#">{ 0   1 &lt; GSM 400 Bands Supported : { 01   10   11 } &gt;</a>  <a href="#">&lt; GSM 400 Associated Radio Capability: bit(4) &gt; }</a>  <a href="#">{ 0   1 &lt;GSM 850 Associated Radio Capability : bit(4) &gt; }</a>  <a href="#">{ 0   1 &lt;GSM 1900 Associated Radio Capability : bit(4) &gt; }</a>  <a href="#">&lt; UMTS FDD Radio Access Technology Capability : bit &gt;</a>  <a href="#">&lt; UMTS TDD Radio Access Technology Capability : bit &gt;</a>  <a href="#">&lt; CDMA 2000 Radio Access Technology Capability : bit &gt;</a>  <a href="#">{ 0   1 &lt; DTM GPRS Multi Slot Sub-Class : bit(2) &gt;</a>  <a href="#">&lt; Single Slot DTM : bit &gt;</a>  <a href="#">{ 0   1 &lt; DTM EGPRS Multi Slot Sub-Class : bit(2) &gt; }</a>  <a href="#">{ 0   1 &lt; Single Band Support &gt; }</a>  <a href="#">&lt; spare bit &gt;** ;</a> </p> <p> <a href="#">&lt; A5 bits &gt; ::= &lt; A5/7 : bit &gt; &lt; A5/6 : bit &gt; &lt; A5/5 : bit &gt; &lt; A5/4 : bit &gt; ;</a> </p> <p> <a href="#">&lt;R Support&gt;::= &lt; R-GSM band Associated Radio Capability : bit(3) &gt; ;</a> </p> <p> <a href="#">&lt; Multi Slot Capability &gt; ::= &lt; Multi Slot Class : bit(5) &gt; ;</a> </p> <p> <a href="#">&lt; MS Measurement capability &gt; ::= &lt; SMS_VALUE : bit (4) &gt;</a>  <a href="#">&lt; SM_VALUE : bit (4) &gt; ;</a> </p> <p> <a href="#">&lt; MS Positioning Method Capability &gt; ::= &lt; MS Positioning Method : bit(5) &gt; ;</a> </p> <p> <a href="#">&lt; EDGE Multi Slot Capability &gt; ::= &lt; EDGE Multi Slot Class : bit(5) &gt; ;</a> </p> <p> <a href="#">&lt;EDGE Struct&gt; ::= &lt; Modulation Capability : bit &gt;</a>  <a href="#">{ 0   1 &lt; EDGE RF Power Capability 1: bit(2) &gt; }</a>  <a href="#">{ 0   1 &lt; EDGE RF Power Capability 2: bit(2) &gt; };</a> </p> <p> <a href="#">&lt; Single Band Support &gt; ::= &lt; GSMBand : bit(4) &gt;;</a> </p>
<p><a href="#">o_P_CheckClassmark3</a></p>	<p><b><a href="#">Type of the result: BOOLEAN</a></b></p> <p><b><a href="#">Parameters:</a></b></p> <p> <a href="#">p_FromUE : MSCLSMK3</a>  <a href="#">p_FDD, p_TDD, p_P_GSM_900_BAND, p_E_GSM_900_BAND : BOOLEAN</a>  <a href="#">p_R_GSM_900_BAND, p_DCS_1800_BAND, p_GSM_450_BAND : BOOLEAN</a>  <a href="#">p_GSM_480_BAND, p_GSM_850_BAND, p_TypeGSMClass2 : BOOLEAN</a>  <a href="#">p_TypeGSMClass3, p_TypeGSMClass4, p_TypeGSMClass5 : BOOLEAN</a>  <a href="#">p_TypeDCSClass1, p_TypeDCSClass2, p_TypeDCSClass3 : BOOLEAN</a>  <a href="#">p_TypePCSCClass1, p_TypePCSCClass2, p_TypePCSCClass3 : BOOLEAN</a>  <a href="#">p_TypeGSM850Class2, p_TypeGSM850Class3, p_TypeGSM850Class4 : BOOLEAN</a>  <a href="#">p_TypeGSM850Class5, p_DTM_Multislotclass5, p_DTM_Multislotclass9 : BOOLEAN</a>  <a href="#">p_DTM_SingleSlotAllocation, p_EOTD_Assist, p_A_GPS_Assist : BOOLEAN</a>  <a href="#">p_A_GPS_Based, p_Conv_GPS, p_EOTD_Based : BOOLEAN</a>  <a href="#">p_MultiSlotClass, p_EGPRS_MultiSlotClass : B5</a>  <a href="#">p_SMS_Value, p_SM_Value, p_GSM400_RadioCapability : B4</a>  <a href="#">p_RGSM_RadioCapability : B3</a>  <a href="#">p_DTM_EGPRS_MultiSlotSubClass, p_EDGE_PwrCap1, p_EDGE_PwrCap2 : B2</a>  <a href="#">p_MS_CismkA5_4, p_MS_CismkA5_5, p_MS_CismkA5_6, p_MS_CismkA5_7 : B1</a>  <a href="#">p_CDMA2000, p_ExtMeasCap, p_ModulationCapability, p_UCS2Treatment : B1</a> </p> <p><b><a href="#">Description</a></b></p> <p>This is exactly the same as o_O_CheckClassmark3 except the first parameter is different. This version is used when UE sends the MSCLSMK3 PDU in CLASSMARK CHANGE</p>

TSO Name	Description
	<p><a href="#">To check each bit of the received octetstring from the UE against the CSN.1 format constraint. The format of the Classmark3 IE is as follows:</a></p> <pre> &lt;Classmark 3 Value part&gt; ::= &lt; spare bit &gt; {&lt; Multiband supported : { 000 } &gt;   &lt; A5 bits &gt;  &lt; Multiband supported : { 101   110 } &gt;   &lt; A5 bits &gt;   &lt; Associated Radio Capability 2 : bit(4) &gt;   &lt; Associated Radio Capability 1 : bit(4) &gt;  &lt; Multiband supported : { 001   010   100 } &gt;   &lt; A5 bits &gt;   &lt; spare bit &gt;(4)   &lt; Associated Radio Capability 1 : bit(4) &gt; } { 0   1 &lt; R Support &gt; } { 0   1 &lt; Multi Slot Capability &gt; } &lt; UCS2 treatment: bit &gt; &lt; Extended Measurement Capability : bit &gt; { 0   1 &lt; MS measurement capability &gt; } { 0   1 &lt; MS Positioning Method Capability &gt; } { 0   1 &lt; EDGE Multi Slot Capability &gt; } { 0   1 &lt; EDGE Struct &gt; } { 0   1 &lt; GSM 400 Bands Supported : { 01   10   11 } &gt;   &lt; GSM 400 Associated Radio Capability: bit(4) &gt; } { 0   1 &lt;GSM 850 Associated Radio Capability : bit(4) &gt; } { 0   1 &lt;GSM 1900 Associated Radio Capability : bit(4) &gt; } &lt; UMTS FDD Radio Access Technology Capability : bit &gt; &lt; UMTS TDD Radio Access Technology Capability : bit &gt; &lt; CDMA 2000 Radio Access Technology Capability : bit &gt; { 0   1 &lt; DTM GPRS Multi Slot Sub-Class : bit(2) &gt;   &lt; Single Slot DTM : bit &gt;   { 0   1 &lt; DTM EGPRS Multi Slot Sub-Class : bit(2) &gt; } } { 0   1 &lt; Single Band Support &gt; } &lt; spare bit &gt;** ;  &lt; A5 bits &gt; ::= &lt; A5/7 : bit &gt; &lt; A5/6 : bit &gt; &lt; A5/5 : bit &gt; &lt; A5/4 : bit &gt; ;  &lt;R Support&gt;::= &lt; R-GSM band Associated Radio Capability : bit(3) &gt; ;  &lt; Multi Slot Capability &gt; ::= &lt; Multi Slot Class : bit(5) &gt; ;  &lt; MS Measurement capability &gt; ::= &lt; SMS_VALUE : bit (4) &gt;   &lt; SM_VALUE : bit (4) &gt; ;  &lt; MS Positioning Method Capability &gt; ::= &lt; MS Positioning Method : bit(5) &gt; ;  &lt; EDGE Multi Slot Capability &gt; ::= &lt; EDGE Multi Slot Class : bit(5) &gt; ;  &lt;EDGE Struct&gt; ::= &lt; Modulation Capability : bit &gt;   { 0   1 &lt; EDGE RF Power Capability 1: bit(2) &gt; }   { 0   1 &lt; EDGE RF Power Capability 2: bit(2) &gt; } ;  &lt; Single Band Support &gt; ::= &lt; GSMBand : bit(4) &gt; ; </pre>
<p><a href="#">o_PacketPagingGroupCalculate</a></p>	<p><b>Type of the result:</b> INTEGER</p> <p><b>Parameters:</b>  IMS: HEXSTRING  KC_Conf: INTEGER  M: INTEGER  N: INTEGER  SplitPGCycle: B8</p> <p><b>Description:</b>  It returns the calculated Packet Paging Group, according to:</p>

TSO Name	Description
	<p><math>PAGING\_GROUP(0 \dots M-1) = ( ( (IMSI \bmod 1000) \div (KC \cdot N) ) * N + (IMSI \bmod 1000) \bmod N + \text{Max}((m * M) \div SPLIT\_PG\_CYCLE, m)) \bmod M</math>  for <math>m = 0, \dots, \text{Min}(M, SPLIT\_PG\_CYCLE) - 1</math>  where  KC = number of (P)CCCH in the cell = BS_PCC_CHANS for PCCCH or BS_CC_CHANS for CCCH  M = number of paging blocks "available" on one (P)CCCH =  (12 - BS_PAG_BLK_RES - BS_PBCCH_BLK) * 64 for PCCCH  (9 - BS_AG_BLK_RES) * 64 for CCCH not combined  (3 - BS_AG_BLK_RES) * 64 for CCCH + SDCCH combined  N=1 for PCCCH  (9 - BS_AG_BLK_RES) * BS_PA_MFRMS for CCCH not combined  (3 - BS_AG_BLK_RES) * BS_PA_MFRMS for CCCH/SDCCH combined  SPLIT_PG_CYCLE is an MS specific parameter negotiated at GPRS attach (see 3GPP TS 04.60)  IMSI = International Mobile Subscriber Identity, as defined in 3GPP TS 03.03.</p>
o_PagingGroupCalculate	<p><b>Type of the result:</b> INTEGER  <b>Parameters:</b>  p_IMSI : HEXSTRING  p_CCCH_Conf : B_3  p_N : INTEGER</p> <p><b>Description</b>  Calculate the PAGING_GROUP (0 .. N?1) = ((IMSI mod 1000) mod (BS_CC_CHANS x N)) mod N  where :  N = number of paging blocks "available" on one CCCH = (number of paging blocks "available" in a 51-multiframe on one CCCH) x BS_PA_MFRMS.  IMSI = International Mobile Subscriber Identity, as defined in 3GPP TS 23.003 <b>[Error! Reference source not found.]</b>.  mod = Modulo.  div = Integer division.</p>
o_SecondDigit	<p><b>Type of the result:</b> B4  <b>Parameters:</b>  p_digits : HEXSTRING</p> <p><b>Description</b>  The input parameter bcdigits shall be a BCD string (subset of HEXSTRING) except the third digit can take value 'F'H, the result is a BITSTRING[4] of a binary representation of one digit in the input string.  The function of the o_SecondDigit is to return the second digit of the input parameter p_digits.</p> <p>EXAMPLE 1: o_G_FirstDigit('123') = '0010'B.  EXAMPLE 2: o_G_FirstDigit('01F') = '0001'B.</p>
o_ThirdDigit	<p><b>Type of the result:</b> B4  <b>Parameters:</b>  p_digits : HEXSTRING</p> <p><b>Description</b>  The input parameter bcdigits shall be a BCD string (subset of HEXSTRING) except the third digit can take value 'F'H, the result is a BITSTRING[4] of a binary representation of one digit in the input string.  The function of the o_ThirdDigit is to return the third digit of the input parameter p_digits.</p> <p>EXAMPLE 1: o_G_FirstDigit('123') = '0011'B.  EXAMPLE 2: o_G_FirstDigit('01F') = '1111'B.</p>
o_TTCN_HO_CommandToBitstring	<p><b>Type of the result:</b> BITSTRING  <b>Parameters:</b>  p_PDU : PDU</p> <p><b>Description</b>  The function of the o_TTCN_HOCommandToBitstring is as the follows:  - It returns the bitstring representation of the input HANDOVERCOMMAND p_PDU.</p>

### 8.7.4 Specific test suite operation for InterSystem Handover testing

**Table 4: TSO definitions for InterSystem testing**

TSO Name	Description
o_CheckClassmark2e_GSM_ToUTRANHO_PER_Encoding	<p><b>Type of the result:</b> BOOLEAN</p> <p><b>Parameters:</b>                      FromUE : OCTETSTRING                      Constraint : MS_Clsmk2</p> <p><b>Description:</b>                      To check each bit of the received octetstring from the UE against the tabular format constraint. All fields in the IE are mandatory, therefore every bit has to match for a TRUE result to be achieved. <b>Type of the result:</b> OCTETSTRING</p> <p><b>Parameters:</b>                      p_Msg : HandoverToUTRANCommand                      p_Len : O1</p> <p><b>Description:</b>                      It returns the aligned PER encoding of the input downlink message p_Msg (with "Encoder added (1-7) bits padding") of p_Len octets.</p>
e_LengthofHO_Cmd	<p><b>Type of the result:</b> INTEGER</p> <p><b>Parameters:</b>                      p_Msg : HandoverToUTRANCommand</p> <p><b>Description:</b>                      it returns the no. of octets of the input downlink message p_Msg</p>
o_HO_PER_Encoding	<p><b>Type of the result:</b> BITSTRING</p> <p><b>Parameters:</b>                      p_Msg : DL_DCCH_Message</p> <p><b>Description:</b>                      It returns the unaligned PER encoding (BIT STRING) of the input downlink DCCH message p_Msg (without "Encoder added (1-7) bits padding").</p>
OC_LeastBits	<p><b>Type of the result:</b> BITSTRING</p> <p><b>Parameters:</b>                      bstring : BITSTRING                      lg : INTEGER</p> <p><b>Description:</b>                      It returns the `lg` least significant bits of the original `bstring`.                      for example:                      OC_LeastBits('110011000101010'B, 3) = '010'B,                      OC_LeastBits('110011000101010'B, 6) = '101010'B.</p>
OC_MostBits	<p><b>Type of the result:</b> BITSTRING</p> <p><b>Parameters:</b>                      bstring : BITSTRING                      lg : INTEGER</p> <p><b>Description:</b>                      It returns the `lg` most significant bits of the original `bstring`.                      for example:                      OC_MostBits ('110011000101010'B, 3) = '010'B,                      OC_MostBits ('110011000101010'B, 6) = '101010'B.</p>
e_PacketPagingGroupCalculate	<p><b>Type of the result:</b> INTEGER</p>

	<p><b>Parameters:</b>  IMSI : HEXSTRING  KC_Conf : INTEGER  M : INTEGER  N : INTEGER  SplitPGCycle : B8</p> <p><b>Description:</b>  It returns the calculated Packet Paging Group, according to:</p> $\text{PAGING\_GROUP}(0 \dots M-1) = ((\text{IMSI mod } 1000) \text{ div } (KC * N)) * N + (\text{IMSI mod } 1000) \text{ mod } N + \text{Max}((m * M) \text{ div } \text{SPLIT\_PG\_CYCLE}, m) \text{ mod } M$ <p>for <math>m = 0, \dots, \text{Min}(M, \text{SPLIT\_PG\_CYCLE}) - 1</math>  where  KC = number of (P)CCCH in the cell = BS_PCC_CHANS for PCCCH or BS_CC_CHANS for CCCH</p> <p>M = number of paging blocks "available" on one (P)CCCH =  (12 - BS_PAG_BLK_RES - BS_PBCCH_BLK) * 64 for PCCCH  (9 - BS_AG_BLK_RES) * 64 for CCCH not combined  (3 - BS_AG_BLK_RES) * 64 for CCCH + SDCCH combined</p> <p>N =  1 for PCCCH  (9 - BS_AG_BLK_RES) * BS_PA_MFRMS for CCCH not combined  (3 - BS_AG_BLK_RES) * BS_PA_MFRMS for CCCH/SDCCH combined</p> <p>SPLIT_PG_CYCLE is an MS specific parameter negotiated at GPRS attach (see 3GPP TS 04.60)  IMSI = International Mobile Subscriber Identity, as defined in 3GPP TS 03.03.</p>
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## 8.12 Pre- & postambles for GERAN to UTRAN tests

### 8.12.1 Preamble for GERAN to UTRAN tests

Before running inter-RAT test cases, radio conditions should be such that the mobile has to select the cell of the intended original RAT. The following steps should be used before running GERAN to UTRAN test cases.

1. UTRAN cell is powered OFF. The default radio conditions for a suitable GERAN cell are used for the serving cell, as defined in 34.108 clause 6.1.7. This step is performed while the UE is still switched OFF.
2. UE is switched ON and performs registration and attach.
3. The UTRAN cell is powered ON with an RF level such that the cell is a suitable neighbour cell, using the RF conditions defined in 34.108 clause 6.1.5, so that the UE will not re-select the UTRAN cell.

## B.1 Parameter values

### B.1.1 BasicM test suite parameter declarations

The following parameters are common to all ATSS.

**Table B.1: BasicM PIXIT**

Parameter name	Description	Type	Default value	Supported value
px_PDP_IP_AddrInfoDCH	A string parameter that identifies the MT in the address space applicable to the PDP for DCH.	IA5String	"200.1.1.80"	
px_PDP_IP_AddrInfoFACH	A string parameter that identifies the MT in the address space applicable to the PDP for FACH.	IA5String	"200.1.1.90"	

Parameter name	Description	Type	Default value	Supported value
px_AuthAMF	Authentication Management Field (16 bits). The value shall be different from '1111 1111 1111 1111'B (AMFresynch).	BITSTRING	See note 2	
px_AuthK	Authentication Key (128 bits)	BITSTRING	'0101111001001010101001101010101001000100100010011010101110101010101110111010000001001011100110011111000011000010011010011000101001'B	
px_AuthN	Value of n to initialize tcv_Auth_n (length of extended response) min 31, max 127 (3GPP TS 34.108 [Error! Reference source not found.] clause 8.1.2)	INTEGER	127	
px_AuthRAND	Random Challenge (128 bits)	BITSTRING	'01010101010101010101010101010101'B	
<del>px_CC_CallDiallingDigits</del>	<del>Dialling digits used to initiate a CC-MO call (used with the AT dial-D command).</del>	<del>IA5String</del>	<del>"0123456902"</del>	
px_CipheringOnOff	Security mode - TRUE if ciphering is applicable	BOOLEAN	TRUE	
px_CN_DomainTested	CN domain to be tested. This parameter is used in test cases that handle both PS and CS domains.	CN_DomainIdentity	cs_domain	
px_FDD_OperationBand	Operation band of test	INTEGER	1	
px_FRESH	Value for FRESH	Fresh	See note 1	
<a href="#">px_FDD_OperationBand</a>	<a href="#">The operation band under test as defined in 34.108 clause 5.1.1</a>	INTEGER	<a href="#">see note 3</a>	<a href="#">Band 1</a> <a href="#">Band 2</a> <a href="#">Band 3</a> <a href="#">6 n Band 6</a> <a href="#">All other values are not defined.</a>
<del>px_IMEI_Def</del>	<del>Default IMEI value</del>	<del>HEXSTRING</del>	<del>See note 1</del>	
<del>px_IMEISV_Def</del>	<del>Default IMEISV value</del>	<del>HEXSTRING</del>	<del>See note 1</del>	
px_IMSI_Def	Default IMSI value	HEXSTRING	'001010123456063'H	
<del>px_IMSI_Diff</del>	<del>Different IMSI from the IMSI stored in the USIM</del>	<del>HEXSTRING</del>	<del>'001010654321063'H</del>	
px_PriScrmCode	Primary scrambling code	PrimaryScramblingCode	100	
<a href="#">px_MS_ClsmkESIND</a>	<a href="#">default Early Sending Indication</a>	<a href="#">B1</a>	<a href="#">@iB</a>	
<a href="#">px_MS_ClsmkRevLvl</a>	<a href="#">default Revision Level</a>	<a href="#">B2</a>	<a href="#">@0iB</a>	
<a href="#">px_MS_ClsmkRF_PwrCap</a>	<a href="#">default RF Power Capability</a>	<a href="#">B3</a>	<a href="#">@00iB</a>	
px_PTMSI_Def	default PTMSI	OCTETSTRING	'12345678'O	
px_PTMSI_SigDef	default PTMSI signature (3 octets, 3GPP 24.008 [Error! Reference source not found.], clause 10.5.5.8).	OCTETSTRING	'AB1234'O	
px_RAT	This parameter is used to specify which radio access technology is being used for the current test execution. Valid values: fdd and tdd	RatType	fdd	
px_RRC_CS_ServTested	CS service to be tested for RRC test cases.	RRC_ServTested	Speech	
px_RRC_PS_ServTested	PS service to be tested for RRC test cases.	RRC_ServTested	Speech	
px_SRNC_Id	SRNC Id	SRNC_Identity	'0000 0000 0001'B	
<del>px_SRNC_IdDiff</del>	<del>Different value for SRNC Id than in px_SRNCId</del>	<del>SRNC_Identity</del>	<del>'0000-0000-0010'B</del>	
px_SRNTI	S RNTI	S_RNTI	'0000 0000 0000 0000 0001'B	
<del>px_SRNTI_Diff</del>	<del>Different value for S RNTI than in</del>	<del>S_RNTI</del>	<del>'0000-0000-0000</del>	

Parameter name	Description	Type	Default value	Supported value
	<del>px_SRNTI</del>		<del>0000-0010-B</del>	
px_TCellA	TCell value for cell A	Tcell	0	
px_TCellB	TCell value for cell B	Tcell	512	
px_TCellC	TCell value for cell C	Tcell	1536	
px_TCellD	TCell value for cell D	Tcell	321	
px_TCellE	TCell value for cell E	Tcell	833	
px_TCellF	TCell value for cell F	Tcell	6577	
px_TCellG	TCell value for cell G	Tcell	7253	
px_TCellH	TCell value for cell H	Tcell	4351	
px_TMSI_Def	Default TMSI	OCTETSTRING	'12345678'0	
px_UARFCN_D_Mid	Mid Range downlink UARFCN value	INTEGER	10700	
px_UARFCN_D_Low	Low Range downlink UARFCN value	INTEGER	10563	
px_UARFCN_D_High	High Range downlink UARFCN value	INTEGER	10837	
px_UARFCN_U_High	High Range uplink UARFCN value. This value shall be set based on the operation band supported.	INTEGER	9887	
px_UARFCN_U_Low	Low Range uplink UARFCN value. This value shall be set based on the operation band supported.	INTEGER	9613	
px_UARFCN_U_Mid	Mid Range uplink UARFCN value. This value shall be set based on the operation band supported.	INTEGER	9750	
px_UE_OpModeDef	Default UE operation mode (either opModeA or opModeC). (For most UEs this corresponds class-A or class-C, and can not be changed by the user)	UE_OperationMode	opModeA	
px_UL_ScramblingCode	UL scrambling code value to be used by UE.	UL_ScramblingCode	0	
px_UTRAN_GERAN	This parameter is used to specify for which environment region the system information blocks are broadcast in the test execution. Valid values: "UTRAN only" and "UTRAN and GERAN".	Region	"UTRAN and GERAN"	
<del>px_DeltaSS_DelayTime</del>	<del>Tdelta value (refer to 34.108 clause 4.2.3) in ms.</del>	<del>INTEGER</del>	<del>55ms</del>	

NOTE 1: No default value can be proposed (Manufacturer defined value).

NOTE 2: No default value can be proposed, because not enough information is available in 3GPP TS 34.109 [Error! Reference source not found.] clause 8.1.2.

NOTE 3: [This value shall be set in synchronisation with the values that are being set for the 6 other pixits viz: px\\_UARFCN\\_D\\_High, px\\_UARFCN\\_U\\_High, px\\_UARFCN\\_D\\_Mid, px\\_UARFCN\\_L\\_Mid, px\\_UARFCN\\_D\\_Low, px\\_UARFCN\\_U\\_Low](#)

## B.1.2 L3M test suite parameters declarations

The following parameters are commonly used in the RRC and NAS ATSSs.

**Table B.2: L3M PIXIT**

Parameter name	Description	Type	Default value	Supported value
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Parameter name	Description	Type	Default value	Supported value
px_BcapDataCompression	Data compression supported (used in the Bearer Capability)	B1	'0'B	
px_BcapFNUR	Fixed Network User rate supported: '00001'B: FNUR 9.6 kbit/s '00010'B: FNUR 14.4 kbit/s '00011'B: FNUR 19.2 kbit/s '00100'B: FNUR 28.8 kbit/s '00101'B: FNUR 38.4 kbit/s '00110'B: FNUR 48.0 kbit/s '00111'B: FNUR 56.0 kbit/s '01000'B: FNUR 64.0 kbit/s '01001'B: FNUR 33.6 kbit/s '01010'B: FNUR 32.0 kbit/s	B5	'00001'B	
px_BcapITC	Information transfer capability supported (used for the generation of the Bearer Capability) 0 - UDI 1 - RDI 2 - 31 kHz Audio 3 - Other	ItcInt	2	
px_BcapModemType	Modem type supported (used in the Bearer Capability)	B5	'00110'B	
px_BcapNumberDataBits	Number of data bits supported (used in the Bearer Capability)	B1	'1'B	
px_BcapNumberStopBits	Number of Stops bits supported (used in the Bearer Capability)	B1	'1'B	
px_BcapOtherModemType	Other modem type supported (used in the Bearer Capability)	B2	'10'B	
px_BcapParity	Parity supported (used in the Bearer Capability)	B3	'011'B	
px_BcapSACP	Signalling access protocol supported (used in the Bearer Capability)	B3	'001'B	
px_BcapSyncAsync	Synchronous '0'B or Asynchronous '1'B mode supported by IUT	B1	'1'B	
px_BcapUeFlowControl	UE flow control. 0-outband, 1-inband, 2-no flow control. 3- X.25 4- X.75 Default: 0, outband flow control	FlowControl	0	
<a href="#">px_CC_CallDiallingDigits</a>	<a href="#">Dialling digits used to initiate a CC MO call (used with the AT dial D command).</a>	<a href="#">IA5String</a>	<a href="#">"0123456902"</a>	
px_CC_Serv	Service selected for Mobile Originated calls and Mobile Terminated calls. The possible values are ("Telephony", "EmergencyCall", "31kHz", "V110", "V120", "PIAFS", "FTM", "X31", "BTM", "MmediaCall")	Services	"31kHz"	
<a href="#">px_DeltaSS_DelayTime</a>	<a href="#">Tdelta value (refer to 34.108 clause 4.2.3) in ms.</a>	<a href="#">INTEGER</a>	<a href="#">55ms</a>	
<a href="#">px_IMEI_Def</a>	<a href="#">Default IMEI value</a>	<a href="#">HEXSTRING</a>	<a href="#">See note 1</a>	
<a href="#">px_IMEISV_Def</a>	<a href="#">Default IMEISV value</a>	<a href="#">HEXSTRING</a>	<a href="#">See note 1</a>	
<a href="#">px_IMSI_Diff</a>	<a href="#">Different IMSI from the IMSI stored in the USIM</a>	<a href="#">HEXSTRING</a>	<a href="#">'001010654321063'H</a>	
px_NwOrgPDP_Support	This indicates if the UE implementation supports network originated PDP Context. TRUE indicates, supported FALSE indicate, not supported	BOOLEAN	FALSE	
<a href="#">px_PDP_IP_AddrInfoDCH</a>	<a href="#">A string parameter that identifies the MT in the address space applicable to the PDP for DCH.</a>	<a href="#">IA5String</a>	<a href="#">"200.1.1.80"</a>	
<a href="#">px_PDP_IP_AddrInfoFACH</a>	<a href="#">A string parameter that identifies the MT in the address space applicable to the PDP for FACH.</a>	<a href="#">IA5String</a>	<a href="#">"200.1.1.90"</a>	
px_PTMSI_2	Second PTMSI used for testing.	OCTETSTRI	'09876543'O	

Parameter name	Description	Type	Default value	Supported value
		NG		
px_PTMSI_Sig2	Second PTMSI signature used for testing.	OCTETSTRING	'AB1234'O	
px_TMSI_2	Second TMSI value for testing	OCTETSTRING	'09876543'O	
<b>NOTE 1:</b> No default value can be proposed (Manufacturer defined value).				

### B.1.3 NAS test suite parameters declarations

The following parameters are commonly used in the NAS ATS.

**Table B.3: NAS PIXIT**

Parameter name	Description	Type	Default value	Supported value
px_AuthRAND_2	A second Random Challenge (128 bits)	BITSTRING	'10101010'0'B	
px_AutocallingBlacklistNumber	Number of B-party numbers that can be stored in the list of blacklisted numbers	INTEGER	20	
px_AutocallingCause1or2	Cause value of category 1 or 2 to be used in TC_17_1_3	INTEGER	18	
px_AutocallingNumber	Called number to be used for auto calling	IA5String	"0613454120"	
px_AutocallingRepeatCat1or2	Number of repeat attempt done for the category 1 or 2 to be used in TC_17_1_3	INTEGER	10	
px_CC_ServNotSupp	Not supported service selected for Mobile Originated calls and Mobile Terminated calls. The possible values are ("Telephony", "EmergencyCall", "31kHz", "V110", "V120", "PIAFS", "FTM", "X31", "BTM", "MmediaCall")	Services	"BTM"	
px_DTMF_BasicCharSet	TRUE if DTMF Chars 0-9, *, # supported	BOOLEAN	TRUE	
px_DTMF_OtherCharSet	TRUE if DTMF Chars A, B, C, D supported	BOOLEAN	TRUE	
px_DTMF_ToneInd	TRUE if UE support DTMF tone indication	BOOLEAN	TRUE	
px_EmergencyCallNumber	Emergency Number used by UE to initiate an emergency call	EmergencyNumber	"112"	
px_NoNwOrgPDP_ContextSupp	This indicates the number of network originated PDP context supported by the UE	INTEGER (0..7)	7	
px_SecPDP_Support	This indicates if the UE supports Secondary PDP Context or not.	BOOLEAN	TRUE	
px_UuInfo	User-user information for TC 10_3	OCTETSTRING	'01020304'O	
px_Uupd	User-user protocol discriminator for TC 10_3	B8	'00000100'B	
px_VTS_AT_CommandSupp	TRUE if the AT command +VTS is supported	BOOLEAN	TRUE	

## B.1.4 SMS test suite parameters declarations

These parameters are used in the SMS ATS.

**Table B.4: SMS PIXIT**

Parameter name	Description	Type	Default value	Supported value
px_BMC_CB_RepPeriod01	CB repetition period for CB message 1	INTEGER	2	
px_BMC_CB_RepPeriod02	CB repetition period for CB message 2	INTEGER	2	
px_BMC_NoOfBC_Req01	No of broadcasts requested for CB message 1	INTEGER	2	
px_BMC_NoOfBC_Req02	No of broadcasts requested for CB message 2	INTEGER	2	
px_MaxCP_DataRetx	max. number of CP data retransmissions for SMS	INTEGER	3	
<a href="#">px_MaxNumOfChars</a>	<a href="#">max. number of characters in a MO SMS</a>	INTEGER	160	
px_SMS_CB_Data01	Contents of the first Cell Broadcast Message sent will be converted to an OCTETSTRING	IA5String	"First Cell Broadcast Message"	
px_SMS_CB_Data02	Contents of the second Cell Broadcast Message sent will be converted to an OCTETSTRING	IA5String	"Second Cell Broadcast Message"	
px_SMS_CB_MsgId01	Message Id to be used for the first Cell Broadcast Message sent	B16	'000000000000001'B	
px_SMS_CB_MsgId02	Message Id to be used for the second Cell Broadcast Message sent	B16	'000000000000010'B	
px_TC1M	Value for timer TC1M, to be declared by the manufacturer	INTEGER	10000	