



IST doc.10 rev.1

TETRA Terminal Interoperability Certificate

April 2005

OTE

Manufacturer	Type	Software/Hardware Release No.	Period of testing
OTE	Puma T3	SW: 4.0 HW: 774-0480	11-13 April 2005

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) has witnessed that the OTE Terminal is operating in accordance with:

TETRA Interoperability Profile:

TETRA MoU, TTR001-01, Core, Ver. 4.8.1, February 2003
TETRA MoU, TTR001-02, SDS, Ver. 1.0.1, August 2001
TETRA MoU, TTR001-03, DGNA, Ver. 1.0.3, May 2001
TETRA MoU, TTR001-04, Authentication, Ver. 1.0.0, November 2000
TETRA MoU, TTR001-05, Packet Data, Ver. 1.0.0, November 2000
TETRA MoU, TTR001-10, E2EE with CVO, Ver. 1.0.1, December 2001
TETRA MoU, TTR001-11, Air Interface Encryption, Ver. 1.0.0, December 2001

The test results for the tested features can be found in the tables of this certificate.

Issue 01: 2005/12/05 that updates the previous version of the certificate according to List of Revisions on Annex 1

Authorised IOP test engineer
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Radio Office Manager
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Information on the equipments used for testing in the April 2005 IOP Test Session

The tests were performed using the following SwMI:

Manufacturer	Type	Software/Hardware Release No.
Nokia	NTS 4	SW: w4 5.10-4 HW: DXT256

Additional information about the test performed

The tests were performed in the LA1, LA2 and LA3 sites. The SwMI was operating with the following configuration:

MCC	346
MNC	5
Colour code	1 (LA1) 2 (LA2) and 3 (LA3)
LA1 carrier frequency (BS Tx)	395,1875 MHz
LA2 carrier frequency (BS Tx)	395,4125 MHz
LA3 carrier frequency (BS Tx)	395,9375 MHz
PSTN gateway SSI	16777184 (FFFFE0)
Subscriber classes	FFFF ₁₆

Note: TIP compliance testing focuses on functionality on the OSI model layers two, three and higher and therefore is frequency band independent.



IOP Test Plans used for testing

The following Test Plans were used in the Test Session:

TETRA MoU, IOP001-01, Core, Ver. 2.0.0

TETRA MoU, IOP001-02, SDS, Ver. 1.1.0

TETRA MoU, IOP001-03, DGNA, Ver. 1.1.0

TETRA MoU, IOP001-04, Authentication, Ver. 1.1.0

TETRA MoU, IOP001-05, Packet Data, Ver. 1.1.0

TETRA MoU, IOP001-10, E2EE, Ver. 1.1.0

TETRA MoU, IOP001-11, Air Interface Encryption, Ver. 1.1.0

Test Results

The test results are shown in the tables below.

Test results and the certificates from previous IOP test session are available on TETRA MoU web site (<http://www.tetramou.com>).

Tables indicate whether or not tests addressing a specific requirement of the TIP specification have been performed, whether or not the requirement is applicable for the SwMI, and the result of the test if executed. Each entry of the table may take one of seven values:

-	No test performed.
N/A	Not applicable for the SwMI
No	Not supported by Terminal
NTPA	No Test Plan/case Available
P	Pass
F	Fail
I	Inconclusive

The test results have been derived from examining the behaviour of a live system. The verdicts indicated are based on the log evaluation of the information exchange between the SwMI and the terminals indicated in the following tables. The verdicts reflect the fact that at the time of the IOP testing it was/was not possible to demonstrate a behaviour that was in accordance with the related requirement.

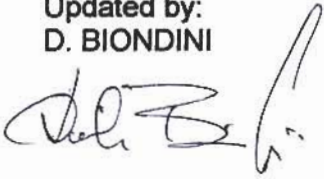
ISCTI has made every effort to ensure that tests are in accordance with the relevant TIPs. ISCTI has no liability for the test results, or towards the manufacturers.

Annex 1

List of Revisions of the Certificate

Date	Issue	Modification
21 June 2005	-	First published version
5 Dec 05	Issue 01	<u>Ambience listening TTR clause 2.5.4, test case 1.2:</u> It was recognized an editorial error on the title of the TIP clause 2.5.4, the title as been corrected. <u>Core TTR clause 9.5 test case 7.2.5:</u> The test refers to wrong TIP clause, reference of the test as been changed from 9.5 to 9.6

Updated by:
D. BIONDINI



Approved by:
A. LA PADULA





Nokia SwMI			OTE Puma T3
TTR001-01	CORE	IOP001-01	
TTR001-01 6	Registration	IOP001-01	
TTR001-01 6.1	ITSI attach - ITSI attach	IOP001-01 1.1	P
TTR001-01 6.2	ITSI attach including group attachment - ITSI attach including group attachment	IOP001-01 1.2	-
TTR001-01 6.2	ITSI attach including group attachment - MS initiated Multiple group attachment during MS registration (Selected group is first in list)	IOP001-01 2.2.1	-
TTR001-01 6.2	ITSI attach including group attachment - MS initiated Multiple group attachment during MS registration (Selected group may not be first in list)	IOP001-01 2.2.6	No
TTR001-01 6.3	ITSI Attach with SwMI allocation of Common SCCH - SwMI supporting one C SCCH	IOP001-01 12.1	N/A
TTR001-01 6.3	ITSI Attach with SwMI allocation of Common SCCH - MS allocation altering at a Registration	IOP001-01 12.2	N/A
TTR001-01 6.3	ITSI Attach with SwMI allocation of Common SCCH - SwMI supporting two C SCCHs	IOP001-01 12.3	N/A
TTR001-01 6.3	ITSI Attach with SwMI allocation of Common SCCH - SwMI supporting three C SCCHs	IOP001-01 12.4	N/A
TTR001-01 6.4	Roaming & periodic location updating - Cell re selection without communication activity	IOP001-01 7.1.1	P
TTR001-01 6.5	SwMI initiated location updating - SwMI initiated location updating without group reporting	IOP001-01 1.3.1	P
TTR001-01 6.5	SwMI initiated location updating - SwMI initiated location updating with group reporting	IOP001-01 1.3.2	N/A
TTR001-01 6.6	De-registration - De-registration	IOP001-01 1.4	P
TTR001-01 6.7	Subscriber class procedures	IOP001-01	
TTR001-01 6.7	Subscriber class procedures - Roaming to a Cell with a Subscriber Class Match	IOP001-01 11.1.1	No
TTR001-01 6.7	Subscriber class procedures - Roaming to a Cell with no Subscriber Class Match SwMI rejects registration	IOP001-01 11.2.1	N/A
TTR001-01 6.7	Subscriber class procedures - Roaming to a Cell with no Subscriber Class Match SwMI accepts registration	IOP001-01 11.2.2	No
TTR001-01 6.7	Subscriber class procedures - MS subscriber class configuration altered at initial registration	IOP001-01 11.3.1	No
TTR001-01 6.7	Subscriber class procedures - MS subscriber class configuration altered at roaming location update valid details for cell	IOP001-01 11.3.2	No
TTR001-01 6.7	Subscriber class procedures - MS subscriber class configuration altered at roaming location update inappropriate details for cell	IOP001-01 11.3.3	No
TTR001-01 6.7.1	Preferred subscriber classes - MS roaming to a cell with a highly preferred Subscriber Class Match	IOP001-01 11.4.1	No
TTR001-01 6.7.1	Preferred subscriber classes - MS roaming to a cell with a preferred Subscriber Class match	IOP001-01 11.4.2	No
TTR001-01 6.7.1	Preferred subscriber classes - Roaming to a Cell with an Inferior Subscriber Class Match	IOP001-01 11.4.3	No
TTR001-01 6.7.1	Preferred subscriber classes - MS registration to BS offering the best services when serving cell goes into Fallback mode, not offering any services	IOP001-01 13.2.4	N/A
TTR001-01 7	Individual call	IOP001-01	
TTR001-01 7	Individual call - Individual call in BS Fallback mode of operation	IOP001-01 13.4.3	N/A
TTR001-01 7.1	Call setup	IOP001-01	
TTR001-01 7.1.1	Hook signalling - Individual hook call setup	IOP001-01 4.1.1	P
TTR001-01 7.1.1	Hook signalling - Individual call setup, resource queuing	IOP001-01 4.1.3	P



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TTR001-01 7.1.1	Hook signalling - Duplex call setup	IOP001-01 4.2.1	P
TTR001-01 7.1.1	Hook signalling - Duplex call setup, resource queuing	IOP001-01 4.2.2	P
TTR001-01 7.1.1	Hook signalling - MS ISDN individual call	IOP001-01 9.1	No
TTR001-01 7.1.2	Direct through-connect - Individual direct call setup	IOP001-01 4.1.2	P
TTR001-01 7.1.2	Direct through-connect - Individual call setup, resource queuing	IOP001-01 4.1.3	-
TTR001-01 7.1.2	Direct through-connect - MS ISDN individual call	IOP001-01 9.1	No
TTR001-01 7.1.3	Call setup modifications	IOP001-01	
TTR001-01 7.1.3.1.4	'Point to point' to 'point to multipoint' - Emergency call setup, P2P to P2MP call modification	IOP001-01 6.2.2	P
TTR001-01 7.1.3.2	Setup modification by called party	IOP001-01	
TTR001-01 7.1.3.2.1	Direct to hook - Call setup Modification by Called Party, Direct to Hook, Calling Party signalling	IOP001-01 4.3.1.1	P
TTR001-01 7.1.3.2.1	Direct to hook - Call setup Modification by Called Party, Direct to Hook, Called Party signalling	IOP001-01 4.3.1.2	No
TTR001-01 7.1.3.2.3	'Duplex' to 'simplex' - Call setup modification by Called Party, duplex to semi duplex, Calling Party signalling	IOP001-01 4.3.2.1	P
TTR001-01 7.1.3.2.3	'Duplex' to 'simplex' - Call setup Modification by Called Party, duplex to semi-duplex, Called Party signalling	IOP001-01 4.3.2.2	No
TTR001-01 7.2	Transmission control	IOP001-01	
TTR001-01 7.2.1	End of transmission - Individual hook call setup	IOP001-01 4.1.1	P
TTR001-01 7.2.1	End of transmission - Individual direct call setup	IOP001-01 4.1.2	P
TTR001-01 7.2.2	Request to transmit (no talker) - Individual hook call setup	IOP001-01 4.1.1	P
TTR001-01 7.2.2	Request to transmit (no talker) - Individual direct call setup	IOP001-01 4.1.2	P
TTR001-01 7.2.2	Request to transmit (no talker) - MS ISDN individual call	IOP001-01 9.1	No
TTR001-01 7.2.3	Request to transmit (in the presence of an active talker) - Pre emptive speech item request, non pre emptive transmission request queuing	IOP001-01 4.1.4	No
TTR001-01 7.2.3	Request to transmit (in the presence of an active talker) - Pre emptive speech item request, non pre emptive transmission request rejection	IOP001-01 4.1.5	N/A
TTR001-01 7.3	Call maintenance	IOP001-01	
TTR001-01 7.3	Call maintenance - Queuing during Individual call restoration, Transmitting	IOP001-01 7.3.4.1	P
TTR001-01 7.3	Call maintenance - Queuing during Individual call restoration, Receiving (Announced cell reselection)	IOP001-01 7.3.4.2	P
TTR001-01 7.3	Call maintenance - Queuing during Individual call restoration, Receiving (Unannounced)	IOP001-01 7.3.4.3	No
TTR001-01 7.3	Call maintenance - Queuing during Individual call restoration, Communication inactivity (Announced cell reselection)	IOP001-01 7.3.5.1	P
TTR001-01 7.3	Call maintenance - Queuing during Individual call restoration, Communication inactivity (Unannounced)	IOP001-01 7.3.5.2	No
TTR001-01 7.3	Call maintenance - Queuing during Duplex call restoration (Announced cell reselection)	IOP001-01 7.4.2	P
TTR001-01 7.4	Call disconnection	IOP001-01	
TTR001-01 7.4	Call disconnection - Individual hook call setup	IOP001-01 4.1.1	P
TTR001-01 7.4	Call disconnection - Individual direct call setup	IOP001-01 4.1.2	P
TTR001-01 7.4	Call disconnection - Duplex call setup	IOP001-01 4.2.1	P



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TTR001-01 7.5	Emergency individual call	IOP001-01	
TTR001-01 7.5	Emergency individual call - Emergency individual call, resource pre-emption	IOP001-01 6.2.1	P
TTR001-01 7.5	Emergency individual call - Emergency Individual call in BS Fallback mode of operation	IOP001-01 13.4.4	N/A
TTR001-01 7.5.1	Emergency speech item request - Emergency individual call, resource pre-emption	IOP001-01 6.2.1	P
TTR001-01 7.5.1	Emergency speech item request - Emergency Individual call in BS Fallback mode of operation	IOP001-01 13.4.4	N/A
TTR001-01 7.5.2	Emergency individual call setup modification - Emergency call setup, P2P to P2MP call modification	IOP001-01 6.2.2	P
TTR001-01 7.6	Pre-emptive Priority Individual Call	IOP001-01	
TTR001-01 7.6	Pre-emptive Priority Individual Call - Pre-emptive priority individual call, resource pre-emption	IOP001-01 4.1.6	P
TTR001-01 7.6	Pre-emptive Priority Individual Call - Pre-emptive priority individual call to user in individual call accepted by MS	IOP001-01 4.1.7	N/A
TTR001-01 8	Group management	IOP001-01	
TTR001-01 8.2	Definition of Class of Usage element	IOP001-01	
TTR001-01 8.2.3	Class of Usage value 1112, 'Always scanned' - Background group attachment and call to background group	IOP001-01 2.1.7	No
TTR001-01 8.2.3	Class of Usage value 1112, 'Always scanned' - Background group attachment rejected	IOP001-01 2.1.8	No
TTR001-01 8.2.5	Class of Usage values 1012, 0112, 0102, 'High, normal, low priority scanned' - Status to scanned group	IOP001-01 5.1.2.3	P
TTR001-01 8.2.7	Selected group and SwMI initiated attachment/detachments. - SwMI initiated Temporary 1 group detachment and re-attachment of the selected group	IOP001-01 2.4.2	P
TTR001-01 8.2.7	Selected group and SwMI initiated attachment/detachments. - SwMI initiated Temporary 1 group detachment and re-attachment of the non-selected group	IOP001-01 2.4.3	P
TTR001-01 8.2.12	Priority group scanning indication	IOP001-01	
TTR001-01 8.2.12.1.2	Definition for scanning off - Background group attachment and call to background group	IOP001-01 2.1.7	No
TTR001-01 8.2.12.3	When to send scanning on/off indication: - Background group attachment and call to background group	IOP001-01 2.1.7	No
TTR001-01 8.2.12.4	Scanning on/off indication - Background group attachment and call to background group	IOP001-01 2.1.7	No
TTR001-01 8.3	Interpretation of Attachment lifetime element	IOP001-01	
TTR001-01 8.3	Interpretation of Attachment lifetime element - Background group attachment and call to background group	IOP001-01 2.1.7	No
TTR001-01 8.4	Attachment of the selected group	IOP001-01	
TTR001-01 8.4	Attachment of the selected group - MS initiated single group attachment of the selected group by an MS, which can operate without a selected group, attachment accepted	IOP001-01 2.1.1	P
TTR001-01 8.4	Attachment of the selected group - MS initiated single group attachment of the selected group by an MS, which can operate without a selected group, rejection	IOP001-01 2.1.3	P
TTR001-01 8.4	Attachment of the selected group - Null group attachment as the selected group	IOP001-01 2.1.5	No
TTR001-01 8.4	Attachment of the selected group - Change of selected group	IOP001-01 2.1.6	P
TTR001-01 8.5	Multiple group attachment	IOP001-01	
TTR001-01 8.5	Multiple group attachment - MS initiated single group attachment of other than the selected group, attachment accepted	IOP001-01 2.1.2	No



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TTR001-01 8. 5	Multiple group attachment - MS initiated single group attachment of other than the selected group, rejection	IOP001-01 2. 1. 4	No
TTR001-01 8. 5	Multiple group attachment - Background group attachment and call to background group	IOP001-01 2. 1. 7	No
TTR001-01 8. 5	Multiple group attachment - MS initiated Multiple group attachment during MS registration (Selected group is first in list)	IOP001-01 2. 2. 1	No
TTR001-01 8. 5	Multiple group attachment - MS initiated Multiple group attachment with attachment to selected group (Selected group is first in list)	IOP001-01 2. 2. 2	P
TTR001-01 8. 5	Multiple group attachment - MS initiated Multiple group attachment with no selected group	IOP001-01 2. 2. 3	P
TTR001-01 8. 5	Multiple group attachment - MS initiated Multiple group attachment, only the attachment of the selected group is accepted	IOP001-01 2. 2. 4	N/A
TTR001-01 8. 5	Multiple group attachment - MS initiated Multiple group attachment, rejection of some of the attached groups	IOP001-01 2. 2. 5	P
TTR001-01 8. 5	Multiple group attachment - MS initiated Multiple group attachment during MS registration (Selected group may not be first in list)	IOP001-01 2. 2. 6	No
TTR001-01 8. 5	Multiple group attachment - MS initiated Multiple group attachment with attachment to selected group (Selected group may not be first in list)	IOP001-01 2. 2. 7	P
TTR001-01 8. 6	MS initiated detachment	IOP001-01	
TTR001-01 8. 6	MS initiated detachment - MS initiated group detachment of the selected group	IOP001-01 2. 3. 1	P
TTR001-01 8. 6	MS initiated detachment - MS initiated group detachment of the selected group and an attached group	IOP001-01 2. 3. 2	No
TTR001-01 8. 7	SwMI initiated group attachment and detachment	IOP001-01	
TTR001-01 8. 7. 1	SwMI initiated detachment - SwMI initiated group detachment with another value than Temporary 1 detachment and attachment	IOP001-01 2. 4. 1	N/A
TTR001-01 8. 7. 1	SwMI initiated detachment - SwMI initiated Temporary 1 group detachment and re-attachment of the selected group	IOP001-01 2. 4. 2	P
TTR001-01 8. 7. 1	SwMI initiated detachment - SwMI initiated Temporary 1 group detachment and re-attachment of the non-selected group	IOP001-01 2. 4. 3	P
TTR001-01 8. 7. 2	SwMI initiated attachment - SwMI initiated group detachment with another value than Temporary 1 detachment and attachment	IOP001-01 2. 4. 1	N/A
TTR001-01 8. 7. 2	SwMI initiated attachment - SwMI initiated Temporary 1 group detachment and re-attachment of the selected group	IOP001-01 2. 4. 2	P
TTR001-01 8. 7. 2	SwMI initiated attachment - SwMI initiated Temporary 1 group detachment and re-attachment of the non-selected group	IOP001-01 2. 4. 3	P
TTR001-01 8. 7. 4	SwMI initiated registration with group report request - SwMI initiated location updating with group reporting	IOP001-01 1. 3. 2	N/A
TTR001-01 8. 7. 5	SwMI initiated registration without group report request - SwMI initiated location updating without group reporting	IOP001-01 1. 3. 1	P
TTR001-01 9	Group call	IOP001-01	
TTR001-01 9	Group call - Group scanning	IOP001-01 3. 8	P
TTR001-01 9	Group call - Group call in BS Fallback mode of operation	IOP001-01 13. 4. 1	N/A
TTR001-01 9. 1	Call setup	IOP001-01	
TTR001-01 9. 1	Call setup - Normal group call	IOP001-01 3. 1	P
TTR001-01 9. 1	Call setup - Group call setup, resource queuing	IOP001-01 3. 3	P
TTR001-01 9. 1	Call setup - Group scanning	IOP001-01 3. 8	P
TTR001-01 9. 1	Call setup - MS ISDN group call	IOP001-01 9. 2	No
TTR001-01 9. 1. 2	Call setup modifications - Group call SwMI changes requested call priority	IOP001-01 3. 7	N/A



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TTR001-01 9.2	Transmission control	IOP001-01	
TTR001-01 9.2.1	End of transmission - Normal group call	IOP001-01 3.1	P
TTR001-01 9.2.1	End of transmission - Group scanning	IOP001-01 3.8	P
TTR001-01 9.2.2	Request to transmit (no talker.) - Normal group call	IOP001-01 3.1	P
TTR001-01 9.2.2	Request to transmit (no talker.) - Group scanning	IOP001-01 3.8	P
TTR001-01 9.2.2	Request to transmit (no talker.) - MS ISDN group call	IOP001-01 9.2	No
TTR001-01 9.2.3	Request for transmit (in the presence of an active talker.) - Pre emptive speech item request, non pre emptive transmission request queuing	IOP001-01 3.4	No
TTR001-01 9.2.3	Request for transmit (in the presence of an active talker.) - Pre emptive speech item request, non pre emptive transmission request rejection	IOP001-01 3.5	N/A
TTR001-01 9.3	Call disconnection	IOP001-01	
TTR001-01 9.3	Call disconnection - Normal group call	IOP001-01 3.1	P
TTR001-01 9.3	Call disconnection - Group call disconnection by call owner MS	IOP001-01 3.6	P
TTR001-01 9.5	Late entry	IOP001-01	
TTR001-01 9.5	Late entry - Late entry	IOP001-01 3.2	P
TTR001-01 9.6	Emergency group call	IOP001-01	
TTR001-01 9.6	Emergency group call - Emergency call setup to busy group, speech item interruption	IOP001-01 6.1.1	P1
TTR001-01 9.6	Emergency group call - Emergency group call, resource pre emption	IOP001-01 6.1.2	P
TTR001-01 9.6	Emergency group call - Pre-emption during Group call restoration, Transmitting (Announced cell reselection)	IOP001-01 7.2.5	P
TTR001-01 9.6	Emergency group call - Emergency Group call in BS Fallback mode of operation	IOP001-01 13.4.2	N/A
TTR001-01 9.6.1	Emergency speech item request - Emergency call setup to busy group, speech item interruption	IOP001-01 6.1.1	P
TTR001-01 9.6.1	Emergency speech item request - Emergency Group call in BS Fallback mode of operation	IOP001-01 13.4.2	N/A
TTR001-01 9.6.2	Emergency group call setup modification - Emergency call setup, P2MP to P2P call modification	IOP001-01 6.1.3	P
TTR001-01 9.7	Pre-emptive Priority Group Call	IOP001-01	
TTR001-01 9.7	Pre-emptive Priority Group Call - Group Call, pre-emptive priority, resource pre-emption	IOP001-01 3.9	P
TTR001-01 9.7	Pre-emptive Priority Group Call - Pre-emption of busy user in an individual call, accepted	IOP001-01 3.10	N/A
TTR001-01 9.7	Pre-emptive Priority Group Call - Pre-emption of busy user in group call, accepted	IOP001-01 3.11	P
TTR001-01 9.7	Pre-emptive Priority Group Call - Pre-emption on busy user, rejected	IOP001-01 3.12	N/A
TTR001-01 10	Cell re-selection	IOP001-01	
TTR001-01 10.1	Undeclared cell re-selection	IOP001-01	
TTR001-01 10.1	Undeclared cell re-selection - Cell re-selection without communication activity	IOP001-01 7.1.1	P
TTR001-01 10.2	Cell re-selection with call restoration	IOP001-01	
TTR001-01 10.2.1	Unannounced cell re-selection - Group call restoration, Receiving (Unannounced)	IOP001-01 7.2.2	P
TTR001-01 10.2.1	Unannounced cell re-selection - Queuing during Group call restoration, Receiving (Unannounced)	IOP001-01 7.2.4	P



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TTR001-01 10.2.1	Unannounced cell re-selection Type without Preferred Neighbour Selected Individual call restoration, Transmitting party (Radio link failure)	IOP001-01 7.3.1.2	P
TTR001-01 10.2.1	Unannounced cell re-selection - Individual call restoration, Receiving (Unannounced)	IOP001-01 7.3.2.2	No
TTR001-01 10.2.1	Unannounced cell re-selection - Individual call restoration, Communication inactivity (Unannounced)	IOP001-01 7.3.3.2	No
TTR001-01 10.2.1	Unannounced cell re-selection - Queuing during Individual call restoration, Receiving (Unannounced)	IOP001-01 7.3.4.3	No
TTR001-01 10.2.1	Unannounced cell re-selection - Queuing during Individual call restoration, Communication inactivity (Unannounced)	IOP001-01 7.3.5.2	No
TTR001-01 10.2.2	Announced Cell Re-selection Type without Preferred Neighbour Selected - Group call restoration, Transmitting (Announced cell reselection)	IOP001-01 7.2.1	P
TTR001-01 10.2.2	Announced Cell Re-selection Type without Preferred Neighbour Selected - Queuing during Group call restoration, Transmitting (Announced cell reselection)	IOP001-01 7.2.3	P
TTR001-01 10.2.2	Announced Cell Re-selection Type without Preferred Neighbour Selected - Pre-emption during Group call restoration, Transmitting (Announced cell reselection)	IOP001-01 7.2.5	P
TTR001-01 10.2.2	Announced cell re-selection Type without Preferred Neighbour Selected Individual call restoration, Transmitting party (Announced type 3)	IOP001-01 7.3.1.1	P
TTR001-01 10.2.2	Announced Cell Re-selection Type without Preferred Neighbour Selected - Individual call restoration, Receiving (Announced cell reselection)	IOP001-01 7.3.2.1	P
TTR001-01 10.2.2	Announced Cell Re-selection Type without Preferred Neighbour Selected - Individual call restoration, Communication inactivity (Announced cell reselection)	IOP001-01 7.3.3.1	P
TTR001-01 10.2.2	Announced Cell Re-selection Type without Preferred Neighbour Selected - Queuing during Individual call restoration, Transmitting	IOP001-01 7.3.4.1	P
TTR001-01 10.2.2	Announced Cell Re-selection Type without Preferred Neighbour Selected - Queuing during Individual call restoration, Receiving (Announced cell reselection)	IOP001-01 7.3.4.2	P
TTR001-01 10.2.2	Announced Cell Re-selection Type without Preferred Neighbour Selected - Queuing during Individual call restoration, Communication inactivity (Announced cell reselection)	IOP001-01 7.3.5.1	P
TTR001-01 10.2.2	Announced Cell Re-selection Type without Preferred Neighbour Selected - Duplex call restoration (Announced cell reselection)	IOP001-01 7.4.1	P
TTR001-01 10.2.2	Announced Cell Re-selection Type without Preferred Neighbour Selected - Queuing during Duplex call restoration (Announced cell reselection)	IOP001-01 7.4.2	P
TTR001-01 10.2.3	Announced Cell Re-selection Type with Preferred Neighbour Selected - Group call, Announced cell reselection with Preferred Neighbour Selected and with Call Restoration, Transmitting	IOP001-01 7.2.7	No
TTR001-01 10.2.3	Announced Cell Re-selection Type with Preferred Neighbour Selected - Individual call, Announced cell reselection with Preferred Neighbour Selected and with Call Restoration, Transmitting	IOP001-01 7.3.6	No
TTR001-01 10.3	Cell Re-selection without Call Restoration (Seamless Handover)	IOP001-01	
TTR001-01 10.3.1	Announced Type with Preferred Neighbour Selected and without Forward Registration - Group call, Announced cell reselection without Call Restoration (Seamless Handover), without Forward Registration, Transmitting	IOP001-01 7.2.6	N/A
TTR001-01 10.3.1	Announced Type with Preferred Neighbour Selected and without Forward Registration - Duplex call, Announced cell reselection without Call Restoration (Seamless Handover), without Forward Registration	IOP001-01 7.4.3	N/A



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TTR001-01 10. 3. 2	Announced Type with Preferred Neighbour Selected and with Forward Registration - Group call, Announced cell reselection without Call Restoration (Seamless Handover), with Forward Registration, Transmitting	IOP001-01 7. 2. 8	No
TTR001-01 10. 3. 2	Announced Type with Preferred Neighbour Selected and with Forward Registration - Individual call, Announced cell reselection without Call Restoration (Seamless Handover), with Forward Registration, Transmitting	IOP001-01 7. 3. 7	No
TTR001-01 11	Short data service	IOP001-01	
TTR001-01 11	Short data service - Individually addressed Status transfer in BS Fallback mode of operation	IOP001-01 13. 4. 5	N/A
TTR001-01 11. 1	Status messages	IOP001-01	
TTR001-01 11. 1. 1	Service Overview - MS ISDN addressed individual Status message	IOP001-01 9. 3	No
TTR001-01 11. 1. 1	Service Overview - MS ISDN addressed group Status message	IOP001-01 9. 4	No
TTR001-01 11. 1. 3. 1	MS to Wireline Dispatcher with Status Acknowledge - Status transfer to Dispatcher	IOP001-01 5. 1. 2. 2	P
TTR001-01 11. 1. 3. 2	MS to MS/Group with General Status Acknowledge - Individual addressed Status transfer	IOP001-01 5. 1. 1	P
TTR001-01 11. 1. 3. 2	MS to MS/Group with General Status Acknowledge - Status transfer to group	IOP001-01 5. 1. 2. 1	P
TTR001-01 11. 1. 3. 2	MS to MS/Group with General Status Acknowledge - Status to scanned group	IOP001-01 5. 1. 2. 3	P
TTR001-01 11. 1. 3. 2	MS to MS/Group with General Status Acknowledge - MS ISDN addressed individual Status message	IOP001-01 9. 3	No
TTR001-01 11. 1. 3. 2	MS to MS/Group with General Status Acknowledge - MS ISDN addressed group Status message	IOP001-01 9. 4	No
TTR001-01 12	Telephone call	IOP001-01	
TTR001-01 12. 1	Gateway Addresses	IOP001-01	
TTR001-01 12. 1	Gateway Addresses - TETRA originated call setup to PSTN subscriber	IOP001-01 8. 1	P
TTR001-01 12. 2	Call Set-up	IOP001-01	
TTR001-01 12. 2. 1	MS Originated, Late Through-Connect - TETRA originated call setup to PSTN subscriber	IOP001-01 8. 1	P
TTR001-01 12. 2. 2	MS Originated, Early Through-Connect - TETRA originated call setup to PSTN subscriber	IOP001-01 8. 1	-
TTR001-01 12. 2. 3	MS Originated, Call Queued - TETRA originated call setup queuing to PSTN subscriber (call setup to PSTN is started before resources are available)	IOP001-01 8. 2. 1	P
TTR001-01 12. 2. 3	MS Originated, Call Queued - TETRA originated call setup queuing to PSTN subscriber (call setup to PSTN is delayed until resources are available)	IOP001-01 8. 2. 2	N/A
TTR001-01 12. 2. 4	MS Terminated - PSTN originated call	IOP001-01 8. 3	P
TTR001-01 12. 4	DTMF Over-dial	IOP001-01	
TTR001-01 12. 4	DTMF Over-dial - TETRA originated successful DTMF over dial	IOP001-01 8. 4	P
TTR001-01 12. 4	DTMF Over-dial - TETRA originated unsuccessful DTMF over dial	IOP001-01 8. 5	-
TTR001-01 12. 5	Disconnect Causes	IOP001-01	
TTR001-01 12. 5	Disconnect Causes - TETRA originated call setup to PSTN subscriber	IOP001-01 8. 1	P
TTR001-01 12. 5	Disconnect Causes - TETRA originated call setup queuing to PSTN subscriber (call setup to PSTN is started before resources are available)	IOP001-01 8. 2. 1	P



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TTR001-01 12. 5	Disconnect Causes - TETRA originated call setup queuing to PSTN subscriber (call setup to PSTN is delayed until resources are available)	IOP001-01 8. 2. 2	N/A
TTR001-01 12. 5	Disconnect Causes - PSTN originated call	IOP001-01 8. 3	P
TTR001-01 12. 6	Emergency telephone call	IOP001-01	
TTR001-01 12. 6	Emergency telephone call - Emergency call to emergency number	IOP001-01 6. 3. 1	No
TTR001-01 13	BS Fallback Operation	IOP001-01	
TTR001-01 13	BS Fallback Operation. - Group call in BS Fallback mode of operation	IOP001-01 13. 4. 1	N/A
TTR001-01 13	BS Fallback Operation. - Emergency Group call in BS Fallback mode of operation	IOP001-01 13. 4. 2	N/A
TTR001-01 13	BS Fallback Operation. - Individual call in BS Fallback mode of operation	IOP001-01 13. 4. 3	N/A
TTR001-01 13	BS Fallback Operation. - Emergency Individual call in BS Fallback mode of operation	IOP001-01 13. 4. 4	N/A
TTR001-01 13	BS Fallback Operation. - Individually addressed Status transfer in BS Fallback mode of operation	IOP001-01 13. 4. 5	N/A
TTR001-01 13	BS Fallback Operation. - SDS transfer to individual in BS Fallback mode of operation	IOP001-01 13. 4. 6	N/A
TTR001-01 13	BS Fallback Operation. - TETRA Packet Mode service in BS Fallback mode of operation	IOP001-01 13. 4. 7	N/A
TTR001-01 13. 1	Start of fallback	IOP001-01	
TTR001-01 13. 1	Start of fallback - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 1	N/A
TTR001-01 13. 1	Start of fallback - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, offering some services	IOP001-01 13. 2. 2	No
TTR001-01 13. 2	Informing MS of Neighbour BS Capabilities	IOP001-01	
TTR001-01 13. 2. 2	Neighbour cell operating in fallback mode: - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 1	N/A
TTR001-01 13. 2. 2	Neighbour cell operating in fallback mode: - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, offering some services	IOP001-01 13. 2. 2	No
TTR001-01 13. 3	Informing MS of Current BS Capabilities	IOP001-01	
TTR001-01 13. 3. 1	Serving cell NOT operating in fallback mode: - Temporary registration on BS in Fallback mode of operation, and re registration when BS returns to Normal mode	IOP001-01 13. 1. 2	P
TTR001-01 13. 3. 1	Serving cell NOT operating in fallback mode: - Registration on BS in Fallback mode of operation, without need for re registration when BS returns to Normal mode	IOP001-01 13. 1. 3	N/A
TTR001-01 13. 3. 2	Serving cell operating in fallback mode: - BS switches from Normal mode to Fallback mode of operation	IOP001-01 13. 1. 1	P
TTR001-01 13. 3. 2	Serving cell operating in fallback mode: - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 1	N/A
TTR001-01 13. 3. 2	Serving cell operating in fallback mode: - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, offering some services	IOP001-01 13. 2. 2	No
TTR001-01 13. 3. 2	Serving cell operating in fallback mode: - MS registration to BS offering some services in Fallback mode when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 3	N/A
TTR001-01 13. 3. 2	Serving cell operating in fallback mode: - MS registration to BS offering the best services when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 4	N/A



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TTR001-01 13. 3. 2	Serving cell operating in fallback mode - Unsupported service in BS Fallback mode of operation	IOP001-01 13. 4. 8	N/A
TTR001-01 13. 3. 2	Serving cell operating in fallback mode: - Group call late entry in BS fallback mode of operation.	IOP001-01 13. 4. 9	P
TTR001-01 13. 3. 2. 1	BS not offering any services - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 1	N/A
TTR001-01 13. 3. 2. 1	BS not offering any services - MS registration to BS offering some services in Fallback mode when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 3	N/A
TTR001-01 13. 3. 2. 1	BS not offering any services - MS registration to BS offering the best services when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 4	N/A
TTR001-01 13. 4	Method of Service Operation in Fallback BS:	IOP001-01	
TTR001-01 13. 4	Method of Service Operation in Fallback BS: - Group call in BS Fallback mode of operation	IOP001-01 13. 4. 1	N/A
TTR001-01 13. 4	Method of Service Operation in Fallback BS: - Emergency Group call in BS Fallback mode of operation	IOP001-01 13. 4. 2	N/A
TTR001-01 13. 4	Method of Service Operation in Fallback BS: - Individual call in BS Fallback mode of operation	IOP001-01 13. 4. 3	N/A
TTR001-01 13. 4	Method of Service Operation in Fallback BS: - Emergency Individual call in BS Fallback mode of operation	IOP001-01 13. 4. 4	N/A
TTR001-01 13. 4	Method of Service Operation in Fallback BS: - Individually addressed Status transfer in BS Fallback mode of operation	IOP001-01 13. 4. 5	N/A
TTR001-01 13. 4	Method of Service Operation in Fallback BS: - SDS transfer to individual in BS Fallback mode of operation	IOP001-01 13. 4. 6	N/A
TTR001-01 13. 4	Method of Service Operation in Fallback BS: - TETRA Packet Mode service in BS Fallback mode of operation	IOP001-01 13. 4. 7	N/A
TTR001-01 13. 4	Method of Service Operation in Fallback BS: - Unsupported service in BS Fallback mode of operation	IOP001-01 13. 4. 8	N/A
TTR001-01 13. 4	Method of Service Operation in Fallback BS: - Group call late entry in BS fallback mode of operation.	IOP001-01 13. 4. 9	P
TTR001-01 13. 5	Terminals during fallback mode	IOP001-01	
TTR001-01 13. 5	Terminals during fallback mode - BS switches from Normal mode to Fallback mode of operation	IOP001-01 13. 1. 1	P
TTR001-01 13. 5	Terminals during fallback mode - Temporary registration on BS in Fallback mode of operation, and re registration when BS returns to Normal mode	IOP001-01 13. 1. 2	P2
TTR001-01 13. 5	Terminals during fallback mode - Registration on BS in Fallback mode of operation, without need for re registration when BS returns to Normal mode	IOP001-01 13. 1. 3	N/A
TTR001-01 13. 5	Terminals during fallback mode - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 1	N/A
TTR001-01 13. 5	Terminals during fallback mode - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, offering some services	IOP001-01 13. 2. 2	No
TTR001-01 13. 5	Terminals during fallback mode - MS registration to BS offering some services in Fallback mode when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 3	N/A
TTR001-01 13. 5	Terminals during fallback mode - MS registration to BS offering the best services when serving cell goes into Fallback mode, not offering any services	IOP001-01 13. 2. 4	N/A
TTR001-01 13. 5	Terminals during fallback mode - MS camped on cell operating in Normal mode avoids roaming to BS operating in Fallback mode, offering some services	IOP001-01 13. 3. 1	No



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TTR001-01 13. 5	Terminals during fallback mode - MS camped on cell operating in Normal mode does not attempt roaming to BS operating in Fallback mode, not offering any services	IOP001-01 13. 3. 2	N/A
TTR001-01 13. 5	Terminals during fallback mode - Unsupported service in BS Fallback mode of operation	IOP001-01 13. 4. 8	N/A
TTR001-01 13. 5	Terminals during fallback mode - Group call late entry in BS fallback mode of operation.	IOP001-01 13. 4. 9	P
TTR001-01 14	Layer 2 operation	IOP001-01	
TTR001-01 14. 1	MAC-Layer	IOP001-01	
TTR001-01 14. 1. 1. 2	Traffic channel (TCH) - Usage of uplink SACCH during group call	IOP001-01 10. 2	P
TTR001-01 14. 1. 1. 2	Traffic channel (TCH) - Usage of uplink SACCH during individual call	IOP001-01 10. 4	P
TTR001-01 14. 1. 1. 2	Traffic channel (TCH) - Usage of downlink SACCH, receiving group call	IOP001-01 10. 6	P
TTR001-01 14. 1. 1. 2	Traffic channel (TCH) - Usage of downlink SACCH, receiving individual call	IOP001-01 10. 8	P
TTR001-01 14. 1. 1. 3	Fast Associated Control Channel (FACCH) - Usage of downlink FACCH, group call inactivity	IOP001-01 10. 5	P
TTR001-01 14. 1. 1. 4	Uplink FACCH and downlink TCH - Usage of uplink FACCH during group call	IOP001-01 10. 1	P
TTR001-01 14. 1. 1. 4	Uplink FACCH and downlink TCH - Usage of uplink FACCH during individual call	IOP001-01 10. 3	P
TTR001-01 14. 1. 1. 5	Downlink FACCH and uplink TCH - Usage of downlink FACCH, transmitting individual call	IOP001-01 10. 7	P
TTR001-01 14. 1.10	Common Secondary Control Channels (Common SCCH) [Extended Mode.] - SwMI supporting one C SCCH	IOP001-01 12. 1	N/A
TTR001-01 14. 1.10	Common Secondary Control Channels (Common SCCH) [Extended Mode.] - MS allocation altering at a Registration	IOP001-01 12. 2	N/A
TTR001-01 14. 1.10	Common Secondary Control Channels (Common SCCH) [Extended Mode.] - SwMI supporting two C SCCHs	IOP001-01 12. 3	N/A
TTR001-01 14. 1.10	Common Secondary Control Channels (Common SCCH) [Extended Mode.] - SwMI supporting three C SCCHs	IOP001-01 12. 4	N/A
TTR001-01 14. 1.10	Common Secondary Control Channels (Common SCCH) [Extended Mode.] - MS Roams from a cell supporting two C SCCHs to a cell supporting three C SCCHs	IOP001-01 12. 5	N/A
TTR001-01 14. 1.10	Common Secondary Control Channels (Common SCCH) [Extended Mode.] - MS Roams from a cell supporting one C SCCH to a cell supporting two C SCCHs	IOP001-01 12. 6	N/A
TTR001-01 14. 1.10	Common Secondary Control Channels (Common SCCH) [Extended Mode.] - MS Roams from a cell supporting no C SCCHs to a cell supporting one C SCCH	IOP001-01 12. 7	N/A
TTR001-02	SDS	IOP001-02	
TTR001-02 6	Service Overview	IOP001-02	
TTR001-02 6. 1	Addressing MS-ISDN addressed individual SDS-TL message with MS-ISDN as CPI.	IOP001-02 1. 4. 4	No
TTR001-02 6. 1	Addressing Group addressed SDS-TL message with MS-ISDN as CPI	IOP001-02 1. 4. 5	No
TTR001-02 7	User defined data Type 1, 2 and 3	IOP001-02	
TTR001-02 7	User defined data Type 1, 2 and 3 Individual addressed SDS Type 1 transfer.	IOP001-02 1. 1. 1	No
TTR001-02 7	User defined data Type 1, 2 and 3 Individual addressed SDS Type 2 transfer.	IOP001-02 1. 2. 1	No
TTR001-02 7	User defined data Type 1, 2 and 3 Individual addressed SDS Type 3 transfer	IOP001-02 1. 3. 1	No
TTR001-02 8	User defined data Type 4	IOP001-02	



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TTR001-02 8. 1	User defined data Type 4 SDS-TL message to scanned group (without acknowledgement).	IOP001-02 1. 4. 3	P
TTR001-02 8. 1. 2	MS to MS, Standard Report Individual addressed text messaging using SDS-TL, (with acknowledgement).	IOP001-02 1. 4. 1	-
TTR001-02 8. 1. 2	MS to MS, Standard Report Group addressed text messaging using SDS-TL, (without acknowledgement).	IOP001-02 1. 4. 2	P
TTR001-02 8. 1. 2	MS to MS, Standard Report MS-ISDN addressed individual SDS-TL message with MS-ISDN as CPI	IOP001-02 1. 4. 4	No
TTR001-02 8. 1. 2	MS to MS, Standard Report Group addressed SDS-TL message with MS-ISDN as CPI	IOP001-02 1. 4. 5	No
TTR001-02 8. 1. 3	MS to MS, Short Report Individual addressed text messaging using SDS-TL, (with acknowledgement).	IOP001-02 1. 4. 1	P
TTR001-02 8. 1. 3	MS to MS, Short report MS-ISDN addressed individual SDS-TL message with MS-ISDN as CPI	IOP001-02 1. 4. 4	No
TTR001-02 8. 2	Text messaging	IOP001-02	
TTR001-02 8. 2. 1. 3	Data Coding Scheme MS-ISDN addressed individual SDS-TL message with MS-ISDN as CPI	IOP001-02 1. 4. 4	No
TTR001-02 8. 2. 1. 3	Data Coding Scheme Group addressed SDS-TL message with MS-ISDN as CPI	IOP001-02 1. 4. 5	No
TTR001-02 8. 2. 1. 4	PDU contents Group addressed text messaging using SDS-TL, (without acknowledgement).	IOP001-02 1. 4. 2	P
TTR001-02 8. 2. 1. 4	PDU contents SDS-TL message to scanned group (without acknowledgement).	IOP001-02 1. 4. 3	P
TTR001-02 8. 2. 1. 4	PDU Contents MS-ISDN addressed individual SDS-TL message with MS-ISDN as CPI	IOP001-02 1. 4. 4	No
TTR001-02 8. 2. 1. 4	PDU Contents Group addressed SDS-TL message with MS-ISDN as CPI	IOP001-02 1. 4. 5	No
TTR001-03	DGNA	IOP001-03	
TTR001-03 7	SS-DGNA not supported	IOP001-03	
TTR001-03 8	Supported SS-DGNA functions	IOP001-03	
TTR001-03 8. 1	Group assignment	IOP001-03	
TTR001-03 8. 1	Group assignment DGNA assignment without attachment.	IOP001-03 1. 2. 1	N/A
TTR001-03 8. 1	Group assignment DGNA assign with attachment as selected group, MS has no selected group.	IOP001-03 1. 3. 1	N/A
TTR001-03 8. 1	Group assignment DGNA assign with attachment as selected group, MS has selected group.	IOP001-03 1. 3. 2	N/A
TTR001-03 8. 1	Group assignment DGNA assign with attachment, attachment not allowed at next ITSI attach.	IOP001-03 1. 4. 1	N/A
TTR001-03 8. 1	Group assignment DGNA assign with attachment, attachment required at next ITSI attach.	IOP001-03 1. 4. 2	P
TTR001-03 8. 1	Group assignment DGNA assign with attachment, pre programmed group.	IOP001-03 1. 4. 3	P
TTR001-03 8. 1	Group assignment DGNA assign with attachment as scanned group, MS has selected group.	IOP001-03 1. 5. 1	P
TTR001-03 8. 1	Group assignment DGNA assign, with embedded attachment rejected by MS.	IOP001-03 1. 6. 1	-
TTR001-03 8. 1. 1	Assignment of a group without attachment DGNA assignment without attachment.	IOP001-03 1. 2. 1	N/A
TTR001-03 8. 1. 2	Assignment of a group with attachment DGNA assign with attachment as selected group, MS has no selected group.	IOP001-03 1. 3. 1	N/A
TTR001-03 8. 1. 2	Assignment of a group with attachment DGNA assign with attachment as selected group, MS has selected group.	IOP001-03 1. 3. 2	N/A
TTR001-03 8. 1. 2	Assignment of a group with attachment DGNA assign with attachment, attachment not allowed at next ITSI attach.	IOP001-03 1. 4. 1	N/A
TTR001-03 8. 1. 2	Assignment of a group with attachment DGNA assign with attachment, attachment required at next ITSI attach.	IOP001-03 1. 4. 2	P



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TTR001-03 8. 1. 2	Assignment of a group with attachment DGNA assign with attachment as scanned group, MS has selected group.	IOP001-03 1. 5. 1	P
TTR001-03 8. 1. 2	Assignment of a group with attachment DGNA assign, with embedded attachment rejected by MS.	IOP001-03 1. 6. 1	-
TTR001-03 8. 2	Group de-assignment	IOP001-03	
TTR001-03 8. 2	Group de – assignment Removing radio subscriber from selected DGNA group.	IOP001-03 1. 7. 1	P
TTR001-03 8. 2	Group de – assignment De-assignment of MS from pre-programmed selected group.	IOP001-03 1. 7. 2	P
TTR001-03 8. 2	Group de-assignment De-assignment of MS from pre-programmed scanned group.	IOP001-03 1. 7. 3	P
TTR001-04	AUTHENTICATION	IOP001-04	
TTR001-04 7	Authentication functions	IOP001-04	
TTR001-04 7. 1	SwMI initiated authentication Successful ITSI attach with authentication.	IOP001-04 1. 1. 1	P
TTR001-04 7. 1	SwMI initiated authentication Rejected registration, authentication failure.	IOP001-04 1. 1. 2	P
TTR001-04 7. 1	SwMI initiated authentication Successful roaming location update with authentication.	IOP001-04 1. 1. 3	No
TTR001-05	PACKET DATA	IOP001-05	
TTR001-05 7	Packet Data functions	IOP001-05	
TTR001-05 7. 1	Context Activation	IOP001-05	
TTR001-05 7. 1. 1	TE IPCP Initiated, Static Address (TE supplied) Packet Data context activation, static IP address.	IOP001-05 1. 1. 1	P
TTR001-05 7. 1. 2	TE IPCP Initiated, Dynamic Address Packet Data context activation, dynamic IP address.	IOP001-05 1. 1. 2	P
TTR001-05 7. 1. 3	User Authentication using PAP Packet Data context activation, with PAP user authentication.	IOP001-05 1. 1. 3	No
TTR001-05 7. 1. 3	User Authentication using PAP Packet Data context activation, APN index selected.	IOP001-05 1. 1. 5	No
TTR001-05 7. 1. 4	User Authentication using CHAP Packet Data context activation, with CHAP user authentication.	IOP001-05 1. 1. 4	No
TTR001-05 7. 1. 5	Failed user authentication Packet Data context activation rejected, PAP user authentication.	IOP001-05 1. 1. 7	No
TTR001-05 7. 1. 5	Failed user authentication Packet Data context activation rejected, CHAP user authentication.	IOP001-05 1. 1. 8	No
TTR001-05 7. 1. 6	Provisioning Reject Packet Data context activation, activation rejected.	IOP001-05 1. 1. 6	P
TTR001-05 7. 1. 6	Provisioning Reject Packet Data context activation rejected, invalid APN index selected.	IOP001-05 1. 1. 9	No
TTR001-05 7. 2	Context Deactivation	IOP001-05	
TTR001-05 7. 2. 1	MS initiated deactivation Packet Data context deactivation, MS initiated, AL not established.	IOP001-05 1. 2. 3	P
TTR001-05 7. 2. 1	MS initiated deactivation Packet Data context deactivation, MS initiated, AL established.	IOP001-05 1. 2. 4	P
TTR001-05 7. 2. 1. 1	Explicit on SwMI PDCH access Data transmission, SwMI initiated PDCH access, MS reject.	IOP001-05 1. 3. 7	P
TTR001-05 7. 2. 2	SwMI initiated deactivation Packet Data context deactivation, SwMI initiated, AL not established.	IOP001-05 1. 2. 1	P
TTR001-05 7. 2. 2	SwMI initiated deactivation Packet Data context deactivation, SwMI initiated, AL established.	IOP001-05 1. 2. 2	P
TTR001-05 7. 3	PDCH Access	IOP001-05	
TTR001-05 7. 3. 1	MS Initiated access on the MCCH Data transmission, MS initiated PDCH access, AL not established, no AL QoS re-negotiation.	IOP001-05 1. 3. 1	P



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TTR001-05 7.3.1	MS Initiated access on the MCCH Data transmission, MS initiated PDCH access, AL not established, AL QoS re-negotiation.	IOP001-05 1.3.2	No
TTR001-05 7.3.1	MS Initiated access on the MCCH Data transmission, MS initiated PDCH access, AL established.	IOP001-05 1.3.3	P
TTR001-05 7.3.2	SwMI initiated access on the MCCH Data transmission, SwMI initiated PDCH access, AL not established.	IOP001-05 1.3.4	P
TTR001-05 7.3.2	SwMI initiated access on the MCCH Data transmission, SwMI initiated PDCH access, AL established.	IOP001-05 1.3.5	P
TTR001-05 7.3.3	MS Initiated Access Reject Data transmission, MS initiated PDCH access, SwMI reject.	IOP001-05 1.3.6	P
TTR001-05 7.4	SN Data transfer	IOP001-05	
TTR001-05 7.4	SN-DATA transfer Data transmission, MS initiated PDCH access, AL not established, no AL QoS re-negotiation.	IOP001-05 1.3.1	P
TTR001-05 7.4	SN-DATA transfer PDCH Access, Data transmission, MS initiated PDCH access, AL not established, AL QoS re-negotiation.	IOP001-05 1.3.2	No
TTR001-05 7.4	SN-DATA transfer Data transmission, MS initiated PDCH access, AL established.	IOP001-05 1.3.3	P
TTR001-05 7.4	SN-DATA transfer Data transmission, SwMI initiated PDCH access, AL not established.	IOP001-05 1.3.4	P
TTR001-05 7.4	SN-DATA transfer Data transmission, SwMI initiated PDCH access, AL established.	IOP001-05 1.3.5	P
TTR001-05 7.5	End of Data	IOP001-05	
TTR001-05 7.5.1	Normal Data transmission, MS initiated PDCH access, AL not established, no AL QoS re-negotiation.	IOP001-05 1.3.1	P
TTR001-05 7.5.1	Normal Data transmission, MS initiated PDCH access, AL not established, AL QoS re-negotiation.	IOP001-05 1.3.2	No
TTR001-05 7.5.1	Normal Data transmission, MS initiated PDCH access, AL established.	IOP001-05 1.3.3	P
TTR001-05 7.5.1	Normal Data transmission, SwMI initiated PDCH access, AL not established.	IOP001-05 1.3.4	P
TTR001-05 7.5.1	Normal Data transmission, SwMI initiated PDCH access, AL established.	IOP001-05 1.3.5	P
TTR001-05 7.5.1	Normal Cell re-selection during data transmission.	IOP001-05 1.4.1	F1
TTR001-05 7.5.1	Normal Cell re-selection without data transmission at MS side, READY state.	IOP001-05 1.4.2	F1
TTR001-05 7.5.1	Normal Cell re-selection without data transmission, STANDBY state.	IOP001-05 1.4.3	P
TTR001-05 7.6	Advanced Link Set-up	IOP001-05	
TTR001-05 7.6.1	MS initiated AL Set-up Data transmission, MS initiated PDCH access, AL not established, no AL QoS re-negotiation.	IOP001-05 1.3.1	P
TTR001-05 7.6.1	MS Initiated AL Set-up Data transmission, MS initiated PDCH access, AL not established, AL QoS re-negotiation.	IOP001-05 1.3.2	No
TTR001-05 7.6.1	MS initiated AL Set-up Data transmission, SwMI initiated PDCH access, AL not established.	IOP001-05 1.3.4	P
TTR001-05 7.6.2	MS Initiated AL Reset Cell re-selection during data transmission.	IOP001-05 1.4.1	F1
TTR001-05 7.7	Advanced Link Data Transfer	IOP001-05	
TTR001-05 7.7.1	Normal Down-link Data transmission, SwMI initiated PDCH access, AL not established.	IOP001-05 1.3.4	P
TTR001-05 7.7.1	Normal Down-link Data transmission, SwMI initiated PDCH access, AL established.	IOP001-05 1.3.5	P
TTR001-05 7.7.4	Normal Up-link Data transmission, MS initiated PDCH access, AL not established, no AL QoS re-negotiation.	IOP001-05 1.3.1	P
TTR001-05 7.7.4	Normal Up-link Data transmission, MS initiated PDCH access, AL not established, AL QoS re-negotiation.	IOP001-05 1.3.2	No
TTR001-05 7.7.4	Normal Up-link Data transmission, MS initiated PDCH access, AL established.	IOP001-05 1.3.3	P



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TTR001-05 7.7.4	Normal Up-link Cell re-selection without data transmission, STANDBY state.	IOP001-05 1.4.3	P
TTR001-05 7.8	Advanced Link Disconnection	IOP001-05	
TTR001-05 7.8.1	MS initiated Context Deactivation Packet Data context deactivation, MS initiated, AL established.	IOP001-05 1.2.4	P
TTR001-05 7.8.2	SwMI initiated Context Deactivation Packet Data context deactivation, SwMI initiated, AL established.	IOP001-05 1.2.2	P
TTR001-05 7.10	Cell re-selection	IOP001-05	
TTR001-05 7.10.1	BS Data Cell re-selection without data transmission at MS side, READY state.	IOP001-05 1.4.2	F1
TTR001-05 7.10.2	MS Data Cell re-selection during data transmission.	IOP001-05 1.4.1	F1
TTR001-10	E2EE with Clear Voice Override	IOP001-10	
TTR001-10 2.2.5	Requirements for the terminals that support E2E or CVO Individual E2E encrypted call restoration. Transmitting party (Announced type 3).	IOP001-10 1.7	-
TTR001-10 2.3	E2E Signalling	IOP001-10	
TTR001-10 2.3.1	Call set-up E2E encrypted Individual call.	IOP001-10 1.1	F2
TTR001-10 2.3.1	Call set-up E2E encrypted group call.	IOP001-10 1.4	-
TTR001-10 2.3.1	Call set-up E2E encrypted group call, late entry.	IOP001-10 1.5	-
TTR001-10 2.3.1	Call set-up E2E encrypted group call with CVO, incorrect encryption key.	IOP001-10 1.6	No
TTR001-10 2.3.2	Transmit request E2E encrypted Individual call.	IOP001-10 1.1	F2
TTR001-10 2.3.2	Transmit request E2E encrypted group call.	IOP001-10 1.4	-
TTR001-10 2.3.2	Transmit request E2E encrypted group call, late entry.	IOP001-10 1.5	-
TTR001-10 2.3.2	Transmit request E2E encrypted group call with CVO, incorrect encryption key.	IOP001-10 1.6	No
TTR001-10 2.3.3	Late entry E2E encrypted group call, late entry.	IOP001-10 1.5	-
TTR001-10 2.4.1	Unacceptable encryption mode in call set-up Rejection of E2E encrypted Individual call.	IOP001-10 1.2	-
TTR001-10 2.4.1	Unacceptable encryption mode in call set-up Rejection of individual clear voice call, MS require encryption.	IOP001-10 1.3	No
TTR001-11	AIE	IOP001-11	
TTR001-11 2.3.5	DCK Retrieval supported by SwMI	IOP001-11	
TTR001-11 2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2.2.1.1	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.	IOP001-11 2.2.1.2	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2.2.1.3	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2.2.1.4	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2.2.1.5	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2.2.1.6	N/A



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TTR001-11 2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.	IOP001-11 2.2.2.1	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.	IOP001-11 2.2.2.2	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2.2.2.3	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2.2.2.4	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2.2.2.5	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2.2.2.6	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2.2.3.1	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.	IOP001-11 2.2.3.2	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2.2.3.3	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2.2.3.4	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2.2.3.5	N/A
TTR001-11 2.3.5	DCK retrieval supported by SwMI Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2.2.3.6	N/A
TTR001-11 2.3.6	Security Class 2, Location update	IOP001-11	
TTR001-11 2.3.6	Security Class 2 Registration with encryption applied. Authentication not required by SwMI.	IOP001-11 1.1.1	N/A
TTR001-11 2.3.6	Security Class 2 Registration with encryption applied. Authentication required by SwMI.	IOP001-11 1.1.2	N/A
TTR001-11 2.3.6	Security Class 2 Registration without encryption applied. Authentication not required by SwMI.	IOP001-11 1.1.3	N/A
TTR001-11 2.3.6	Security Class 2 Registration without encryption applied. Authentication required by SwMI.	IOP001-11 1.1.4	N/A
TTR001-11 2.3.6	Security Class 2 Undeclared cell re-selection.	IOP001-11 1.2.1	N/A
TTR001-11 2.3.6	Security Class 2 Unannounced cell re-selection.	IOP001-11 1.2.2	N/A
TTR001-11 2.3.7	Security Class 3, Location update	IOP001-11	
TTR001-11 2.3.7	Security Class 3 Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied.	IOP001-11 2.1.1	P
TTR001-11 2.3.7	Security Class 3 Class 3 MS Registration with Class 3 ciphering and optional CCK request, with encryption applied.	IOP001-11 2.1.2	N/A
TTR001-11 2.3.7	Security Class 3 Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2.2.1.1	P



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TTR001-11 2. 3. 7	Security Class 3 Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.	IOP001-11 2. 2. 1. 2	No
TTR001-11 2. 3. 7	Security Class 3 Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 1. 3	No
TTR001-11 2. 3. 7	Security Class 3 Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 1. 4	No
TTR001-11 2. 3. 7	Security Class 3 Undeclared cell re-selection, encrypted location update, using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 1. 5	N/A
TTR001-11 2. 3. 7	Security Class 3 Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 1. 6	N/A
TTR001-11 2. 3. 7	Security Class 3 Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.	IOP001-11 2. 2. 2. 1	I1
TTR001-11 2. 3. 7	Security Class 3 Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.	IOP001-11 2. 2. 2. 2	No
TTR001-11 2. 3. 7	Security Class 3 Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 2. 3	No
TTR001-11 2. 3. 7	Security Class 3 Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 2. 4	No
TTR001-11 2. 3. 7	Security Class 3 Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 2. 5	N/A
TTR001-11 2. 3. 7	Security Class 3 Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 2. 6	N/A
TTR001-11 2. 3. 7	Security Class 3 Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2. 2. 3. 1	F3
TTR001-11 2. 3. 7	Security Class 3 Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.	IOP001-11 2. 2. 3. 2	No
TTR001-11 2. 3. 7	Security Class 3 Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 3. 3	No
TTR001-11 2. 3. 7	Security Class 3 Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 3. 4	No
TTR001-11 2. 3. 7	Security Class 3 Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 3. 5	N/A
TTR001-11 2. 3. 7	Security Class 3 Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 3. 6	N/A
TTR001-11 2. 3. 7	Security Class 3 Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK.	IOP001-11 2. 2. 4. 1	No
TTR001-11 2. 3. 7	Security Class 3 Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK.	IOP001-11 2. 2. 4. 2	No
TTR001-11 2. 3. 7	Security Class 3 SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.	IOP001-11 2. 5. 3	No
TTR001-11 2. 3. 8	DCK Forwarding using announced type 1 cell re-selection	IOP001-11	
TTR001-11 2. 3. 8	DCK Forwarding using announced type 1 cell re-selection SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.	IOP001-11 2. 5. 3	No
TTR001-11 2. 3. 9	DCK Forwarding using announced type 2 cell re-selection	IOP001-11	
TTR001-11 2. 3. 9	DCK Forwarding using announced type 2 cell re-selection Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK.	IOP001-11 2. 2. 4. 1	No



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TTR001-11 2. 3. 9	DCK Forwarding using announced type 2 cell re-selection Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK.	IOP001-11 2. 2. 4. 2	No
TTR001-11 2. 3. 9	DCK Forwarding using announced type 2 cell re-selection SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS MS.	IOP001-11 2. 5. 3	No
TTR001-11 2. 3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL	IOP001-11	
TTR001-11 2. 3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 1. 3	No
TTR001-11 2. 3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 1. 4	No
TTR001-11 2. 3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 2. 3	No
TTR001-11 2. 3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 2. 4	No
TTR001-11 2. 3.10	DCK Forwarding using OTAR PREPARE and OTAR NEWCELL Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2. 2. 3. 1	-
TTR001-11 2. 3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 3. 3	No
TTR001-11 2. 3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 3. 4	No
TTR001-11 2. 3.10	DCK forwarding using OTAR PREPARE and OTAR NEW CELL SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.	IOP001-11 2. 5. 3	No
TTR001-11 2. 3.11	Change of Security Class or Cipher Key on the serving cell	IOP001-11	
TTR001-11 2. 3.11	Change of Security Class or Cipher Key on the serving cell SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS .	IOP001-11 2. 5. 1	No
TTR001-11 2. 3.11	Change of Security Class or Cipher Key on the serving Cell SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS.	IOP001-11 2. 5. 2	No
TTR001-11 2. 3.11	Change of Security Class or Cipher Key on the serving cell SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.	IOP001-11 2. 5. 3	No
TTR001-11 2. 3.11. 4	D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV) SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS.	IOP001-11 2. 5. 1	No
TTR001-11 2. 3.11. 4	D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV) SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS.	IOP001-11 2. 5. 2	No
TTR001-11 2. 3.11. 4	D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV) SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.	IOP001-11 2. 5. 3	No
TTR001-11 2. 3.11. 5	D-CK CHANGE DEMAND (Change of Cipher Key – Immediate) SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS.	IOP001-11 2. 5. 1	N/A
TTR001-11 2. 3.11. 5	D-CK CHANGE DEMAND (Change of Cipher Key – Immediate) SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS.	IOP001-11 2. 5. 2	N/A



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TTR001-11 2. 3.11. 5	D-CK CHANGE DEMAND (Change of Cipher Key – Immediate) SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.	IOP001-11 2. 5. 3	N/A
TTR001-11 2. 3.15. 1	MS CCK Management SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS.	IOP001-11 2. 5. 2	No
TTR001-11 2. 3.16	Call Related Signalling	IOP001-11	
TTR001-11 2. 3.16	Encryption mode of a call Call from Class 2 MS to Class 2 MS.	IOP001-11 1. 3. 1. 1	N/A
TTR001-11 2. 3.16	Encryption mode of a call Call from Class 2 MS to Class 1 MS.	IOP001-11 1. 3. 1. 2	N/A
TTR001-11 2. 3.16	Encryption mode of a call Call from Class 1 MS to Class 2 MS.	IOP001-11 1. 3. 1. 3	N/A
TTR001-11 2. 3.16	Encryption mode of a call Call from Class 2 MS to Class 2 Group.	IOP001-11 1. 3. 2. 1	N/A
TTR001-11 2. 3.16	Encryption mode of a call Call from Class 2 MS to Class 1 Group.	IOP001-11 1. 3. 2. 2	N/A
TTR001-11 2. 3.16	Encryption mode of a call Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.	IOP001-11 2. 2. 2. 1	I1
TTR001-11 2. 3.16	Encryption mode of a call Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.	IOP001-11 2. 2. 2. 2	No
TTR001-11 2. 3.16	Encryption mode of a call Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 2. 3	No
TTR001-11 2. 3.16	Encryption mode of a call Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 2. 4	No
TTR001-11 2. 3.16	Encryption mode of a call Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 2. 5	N/A
TTR001-11 2. 3.16	Encryption mode of a call Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 2. 6	N/A
TTR001-11 2. 3.16	Encryption mode of a call Encrypted individual call from Class 3 MS to Class 3 MS.	IOP001-11 2. 3. 1. 1	P
TTR001-11 2. 3.16	Encryption mode of a call Individual call from Class 3 MS to Class 1 MS.	IOP001-11 2. 3. 1. 2	P
TTR001-11 2. 3.16	Encryption mode of a call Individual call from Class 1 MS to Class 3 MS.	IOP001-11 2. 3. 1. 3	P
TTR001-11 2. 3.16	Encryption mode of a call Encrypted group call from Class 3 MS to Class 3 Group .	IOP001-11 2. 3. 2. 1	P
TTR001-11 2. 3.16	Encryption mode of a call Group call from Class 3 MS to Class 1 Group .	IOP001-11 2. 3. 2. 2	P
TTR001-11 2. 3.17	Call Unrelated Signalling	IOP001-11	
TTR001-11 2. 3.17. 1	Call Related Signalling Call from Class 2 MS to Class 2 MS.	IOP001-11 1. 3. 1. 1	N/A
TTR001-11 2. 3.17. 1	Call Related Signalling Call from Class 2 MS to Class 1 MS.	IOP001-11 1. 3. 1. 2	N/A
TTR001-11 2. 3.17. 1	Call Related Signalling Call from Class 1 MS to Class 2 MS.	IOP001-11 1. 3. 1. 3	N/A
TTR001-11 2. 3.17. 1	Call Related Signalling Call from Class 2 MS to Class 2 Group.	IOP001-11 1. 3. 2. 1	N/A
TTR001-11 2. 3.17. 1	Call Related Signalling Call from Class 2 MS to Class 1 Group.	IOP001-11 1. 3. 2. 2	N/A
TTR001-11 2. 3.17. 1	Call Related Signalling Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.	IOP001-11 2. 2. 2. 1	P



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TTR001-11 2. 3.17. 1	Call Related Signalling Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.	IOP001-11 2. 2. 2. 2	No
TTR001-11 2. 3.17. 1	Call Related Signalling Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 2. 3	No
TTR001-11 2. 3.17. 1	Call Related Signalling Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 2. 4	No
TTR001-11 2. 3.17. 1	Call Related Signalling Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 2. 5	N/A
TTR001-11 2. 3.17. 1	Call Related Signalling Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 2. 6	N/A
TTR001-11 2. 3.17. 1	Call Related Signalling Encrypted individual call from Class 3 MS to Class 3 MS.	IOP001-11 2. 3. 1. 1	P
TTR001-11 2. 3.17. 1	Call Related Signalling Individual call from Class 3 MS to Class 1 MS.	IOP001-11 2. 3. 1. 2	P
TTR001-11 2. 3.17. 1	Call Related Signalling Individual call from Class 1 MS to Class 3 MS.	IOP001-11 2. 3. 1. 3	P
TTR001-11 2. 3.17. 1	Call Related Signalling Encrypted group call from Class 3 MS to Class 3 Group .	IOP001-11 2. 3. 2. 1	P
TTR001-11 2. 3.17. 1	Call Related Signalling Group call from Class 3 MS to Class 1 Group.	IOP001-11 2. 3. 2. 2	P
TTR001-11 2. 3.17. 2	Call Unrelated Signalling Status from Class 2 MS in Class 1 Group call to idle Class 2 MS.	IOP001-11 1. 4. 1	N/A
TTR001-11 2. 3.17. 2	Call Unrelated Signalling Status from idle Class 2 MS to Class 2 MS in Class 1 group call.	IOP001-11 1. 4. 2	N/A
TTR001-11 2. 3.17. 2	Call Unrelated Signalling Status from Class 3 MS in Class 1 Group call to Class 3 MS.	IOP001-11 2. 4. 1	F4
TTR001-11 2. 3.17. 2	Call Unrelated Signalling Status from Class 3 MS to Class 3 MS in Class 1 Group call.	IOP001-11 2. 4. 2	P
TTR001-11 2. 3.20	AI Signalling Protection	IOP001-11	
TTR001-11 2. 3.20	AI Signalling Protection Registration with encryption applied. Authentication not required by SwMI.	IOP001-11 1. 1. 1	N/A
TTR001-11 2. 3.20	AI Signalling Protection Registration with encryption applied. Authentication required by SwMI.	IOP001-11 1. 1. 2	N/A
TTR001-11 2. 3.20	AI Signalling Protection Registration without encryption applied. Authentication not required by SwMI.	IOP001-11 1. 1. 3	N/A
TTR001-11 2. 3.20	AI Signalling Protection Registration without encryption applied. Authentication required by SwMI.	IOP001-11 1. 1. 4	N/A
TTR001-11 2. 3.20	AI Signalling Protection Undeclared cell re-selection.	IOP001-11 1. 2. 1	N/A
TTR001-11 2. 3.20	AI Signalling Protection Unannounced cell re-selection.	IOP001-11 1. 2. 2	N/A
TTR001-11 2. 3.20	AI Signalling Protection Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied.	IOP001-11 2. 1. 1	P
TTR001-11 2. 3.20	AI Signalling Protection Class 3 MS Registration with Class 3 ciphering and optional CCK request, with encryption applied.	IOP001-11 2. 1. 2	N/A
TTR001-11 2. 3.20	AI Signalling Protection Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2. 2. 1. 1	P
TTR001-11 2. 3.20	AI Signalling Protection Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.	IOP001-11 2. 2. 1. 2	No
TTR001-11 2. 3.20	AI Signalling Protection Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 1. 3	No
TTR001-11 2. 3.20	AI Signalling Protection Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 1. 4	No



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TTR001-11 2. 3.20	AI Signalling Protection Undeclared cell re-selection, encrypted location update using retrieval, including request for CCK.	IOP001-11 2. 2. 1. 5	N/A
TTR001-11 2. 3.20	AI Signalling Protection Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 1. 6	N/A
TTR001-11 2. 3.20	AI Signalling Protection Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.	IOP001-11 2. 2. 2. 1	I1
TTR001-11 2. 3.20	AI Signalling Protection Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.	IOP001-11 2. 2. 2. 2	No
TTR001-11 2. 3.20	AI Signalling Protection Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 2. 3	No
TTR001-11 2. 3.20	AI Signalling Protection Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK .	IOP001-11 2. 2. 2. 4	No
TTR001-11 2. 3.20	AI Signalling Protection Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 2. 5	N/A
TTR001-11 2. 3.20	AI Signalling Protection Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 2. 6	N/A
TTR001-11 2. 3.20	AI Signalling Protection Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2. 2. 3. 1	F3
TTR001-11 2. 3.20	AI Signalling Protection Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.	IOP001-11 2. 2. 3. 2	No
TTR001-11 2. 3.20	AI Signalling Protection Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 3. 3	No
TTR001-11 2. 3.20	AI Signalling Protection Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 3. 4	No
TTR001-11 2. 3.20	AI Signalling Protection Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 3. 5	N/A
TTR001-11 2. 3.20	AI Signalling Protection Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK .	IOP001-11 2. 2. 3. 6	N/A
TTR001-11 2. 3.20	AI Signalling Protection Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK.	IOP001-11 2. 2. 4. 1	No
TTR001-11 2. 3.20	AI Signalling Protection Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK.	IOP001-11 2. 2. 4. 2	No
TTR001-11 2. 6	Signalling Scenarios	IOP001-11	
TTR001-11 2. 6. 2	MS-initiated location updating with SCK ciphering, no SCK request, no authentication Registration with encryption applied. Authentication not required by SwMI.	IOP001-11 1. 1. 1	N/A
TTR001-11 2. 6. 2	MS-initiated location updating with SCK ciphering, no SCK request, no authentication Registration without encryption applied. Authentication not required by SwMI.	IOP001-11 1. 1. 3	N/A
TTR001-11 2. 6. 3	MS-initiated location updating with SCK ciphering, and authentication Registration with encryption applied. Authentication required by SwMI.	IOP001-11 1. 1. 2	N/A
TTR001-11 2. 6. 3	MS-initiated location updating with SCK ciphering, and authentication Registration without encryption applied. Authentication required by SwMI.	IOP001-11 1. 1. 4	N/A



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TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied.	IOP001-11 2. 1. 1	P
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Class 3 MS Registration with Class 3 ciphering and optional CCK request, with encryption applied.	IOP001-11 2. 1. 2	N/A
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2. 2. 1. 1	P
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 1. 3	No
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 1. 5	N/A
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.	IOP001-11 2. 2. 2. 1	P
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 2. 3	N/A
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 2. 5	N/A
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2. 2. 3. 1	F3
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 3. 3	N/A
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 3. 5	N/A
TTR001-11 2. 6. 6	MS-initiated location updating with DCK ciphering, CCK request and authentication Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK.	IOP001-11 2. 2. 4. 2	N/A
TTR001-11 2. 6. 7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.	IOP001-11 2. 2. 1. 2	N/A
TTR001-11 2. 6. 7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 1. 4	No
TTR001-11 2. 6. 7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 1. 6	N/A



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TTR001-11 2. 6. 7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.	IOP001-11 2. 2. 2. 2	N/A
TTR001-11 2. 6. 7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 2. 4	No
TTR001-11 2. 6. 7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 2. 6	N/A
TTR001-11 2. 6. 7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.	IOP001-11 2. 2. 3. 2	N/A
TTR001-11 2. 6. 7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 3. 4	No
TTR001-11 2. 6. 7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 3. 6	N/A
TTR001-11 2. 6. 7	MS-initiated location updating with DCK ciphering (no CCK request, no authentication) Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK.	IOP001-11 2. 2. 4. 1	No
TTR001-11 2. 6. 8	MS-initiated location updating with DCK ciphering and authentication Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.	IOP001-11 2. 2. 1. 2	No
TTR001-11 2. 6. 8	MS-initiated location updating with DCK ciphering and authentication Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 1. 4	No
TTR001-11 2. 6. 8	MS-initiated location updating with DCK ciphering and authentication Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 1. 6	N/A
TTR001-11 2. 6. 8	MS-initiated location updating with DCK ciphering and authentication Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.	IOP001-11 2. 2. 2. 2	No
TTR001-11 2. 6. 8	MS-initiated location updating with DCK ciphering and authentication Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 2. 4	N/A
TTR001-11 2. 6. 8	MS-initiated location updating with DCK ciphering and authentication Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 2. 6	N/A
TTR001-11 2. 6. 8	MS-initiated location updating with DCK ciphering and authentication Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.	IOP001-11 2. 2. 3. 2	No
TTR001-11 2. 6. 8	MS-initiated location updating with DCK ciphering and authentication Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.	IOP001-11 2. 2. 3. 4	N/A
TTR001-11 2. 6. 8	MS-initiated location updating with DCK ciphering and authentication Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK.	IOP001-11 2. 2. 3. 6	N/A



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TTR001-11 2. 6. 8	MS-initiated location updating with DCK ciphering and authentication Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK.	IOP001-11 2. 2. 4. 1	N/A
TTR001-11 2. 6. 9	MS-initiated location updating with DCK ciphering and CCK request Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2. 2. 1. 1	N/A
TTR001-11 2. 6. 9	MS-initiated location updating with DCK ciphering and CCK request Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 1. 3	N/A
TTR001-11 2. 6. 9	MS-initiated location updating with DCK ciphering and CCK request Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 1. 5	N/A
TTR001-11 2. 6. 9	MS-initiated location updating with DCK ciphering and CCK request Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.	IOP001-11 2. 2. 2. 1	N/A
TTR001-11 2. 6. 9	MS-initiated location updating with DCK ciphering and CCK request Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 2. 3	No
TTR001-11 2. 6. 9	MS-initiated location updating with DCK ciphering and CCK request Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 2. 5	N/A
TTR001-11 2. 6. 9	MS-initiated location updating with DCK ciphering and CCK request Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.	IOP001-11 2. 2. 3. 1	N/A
TTR001-11 2. 6. 9	MS-initiated location updating with DCK ciphering and CCK request Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.	IOP001-11 2. 2. 3. 3	No
TTR001-11 2. 6. 9	MS-initiated location updating with DCK ciphering and CCK request Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK.	IOP001-11 2. 2. 3. 5	N/A
TTR001-11 2. 6. 9	MS-initiated location updating with DCK ciphering and CCK request Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK.	IOP001-11 2. 2. 4. 2	No



Comments

- Note Entering fallback the SwMI sends an SDS-TL message instead of the
- P1 MS A performs emergency call sending U-SETUP with request to transmit "Other MS/LS may transmit/send data", but MS B takes the speech item first sending U-TX-DEMAND.
- P2 The SwMI log file shows that the test case is passed but MS logging tool incorrectly decodes PDU D-LOCATION UPDATE ACCEPT with 'Migrating Location Upd' element.
- F1 Although in the ready state, the SwMI sends an SN-DATA TRANSMIT REQUEST, after which the MS cannot send the appropriate link reconnection message as the protocol exchange fails, the data transfer did continue.
- F2 Misconception of E2EE in SwMI. When MS informs availability of E2EE in U-LOCATION UPDATE DEMAND 'Class of MS' SwMI consider E2EE bit 0 as "E2EE not supported" and call is not connected to B-subscriber
- F3 U-CALL RESTORE PDU sent by the MS could not be reliably decoded by SwMI.
- F4 MS is not able to handle acknowledgement sent on STCH and remains sending multiple U-STATUS messages
- I1 Test case succeeds occasionally. Sent U-CALL RESTORE could not be reliably decoded by SwMI.