



IST doc.10 rev.1

# TETRA Terminal Interoperability Certificate

April 2005

**MOTOROLA**

| Manufacturer    | Type          | Software/Hardware Release No.            | Period of testing       |
|-----------------|---------------|--|-------------------------|
| <b>Motorola</b> | <b>MTH800</b> | <b>SW: R07.020.5160<br/>HW: FUE1054A</b> | <b>18-19 April 2005</b> |

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

## TETRA Interoperability Profile:

TETRA MoU, TTR001-01, Core, Ver. 4.8.1, February 2003  
TETRA MoU, TTR001-03, DGNA, Ver. 1.0.3, May 2001  
TETRA MoU, TTR001-07, FSSN, Ver. 1.0.0, January 2002  
TETRA MoU, TTR001-09, Ambience Listening, Ver. 1.0.3, January 2002  
TETRA MoU, TTR001-11, Air Interface Encryption, Ver. 1.0.0, December 2001  
TETRA MoU, TTR001-12, Service Interaction, Ver 1.0.0, December 2003

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

(Daniele Biondini)

Radio Office Manager

(Ing. A. La Padula)



## 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<br>HW: DXT256   |

## Additional information about the test performed

The tests were performed in the LA1, LA2 and LA3. 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 <sub>16</sub>          |

**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, IOP001-03, DGNA, Ver. 1.1.0

TETRA MoU, IOP001-07, FSSN, Ver. 1.1.0

TETRA MoU, IOP001-09, Ambience Listening, Ver. 1.1.0

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

TETRA MoU, IOP001-12, Service Interaction, Ver. 1.0.0

## 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.          |
| <b>N/A</b>  | Not applicable for the SwMI |
| <b>No</b>   | Not supported by Terminal   |
| <b>NTPA</b> | No Test Plan/case Available |
| <b>P</b>    | Pass                        |
| <b>F</b>    | Fail                        |
| <b>I</b>    | 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.

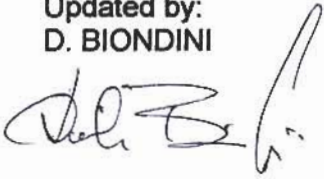
ISCTI has made every effort to ensure that tests are in accordance with the relevant TIPs. ISCTI has no liability for the test results, or towards the manufacturers.

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><br>It was recognized an editorial error on the title of the TIP clause 2.5.4, the title as been corrected.<br><u>Core TTR clause 9.5 test case 7.2.5:</u><br>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         |   |                     | Motorola<br>MTH800 |
|--------------------|---|---------------------|--------------------|
| TTR001-01          | <b>CORE</b>   | IOP001-01           |                    |
| TTR001-01<br>6     | <b>Registration</b>   | IOP001-01           |                    |
| TTR001-01<br>6.1   | <b>ITSI attach</b> - ITSI attach  | IOP001-01<br>1.1    | No                 |
| TTR001-01<br>6.2   | <b>ITSI attach including group attachment</b> - ITSI attach including group attachment  | IOP001-01<br>1.2    | -                  |
| TTR001-01<br>6.2   | <b>ITSI attach including group attachment</b> - MS initiated Multiple group attachment during MS registration (Selected group is first in list)             | IOP001-01<br>2.2.1  | No                 |
| TTR001-01<br>6.2   | <b>ITSI attach including group attachment</b> - MS initiated Multiple group attachment during MS registration (Selected group may not be first in list)     | IOP001-01<br>2.2.6  | -                  |
| TTR001-01<br>6.3   | <b>ITSI Attach with SwMI allocation of Common SCCH</b> - SwMI supporting one C SCCH   | IOP001-01<br>12.1   | N/A                |
| TTR001-01<br>6.3   | <b>ITSI Attach with SwMI allocation of Common SCCH</b> - MS allocation altering at a Registration   | IOP001-01<br>12.2   | N/A                |
| TTR001-01<br>6.3   | <b>ITSI Attach with SwMI allocation of Common SCCH</b> - SwMI supporting two C SCCHs  | IOP001-01<br>12.3   | N/A                |
| TTR001-01<br>6.3   | <b>ITSI Attach with SwMI allocation of Common SCCH</b> - SwMI supporting three C SCCHs  | IOP001-01<br>12.4   | N/A                |
| TTR001-01<br>6.4   | <b>Roaming &amp; periodic location updating</b> - Cell re selection without communication activity  | IOP001-01<br>7.1.1  | P                  |
| TTR001-01<br>6.5   | <b>SwMI initiated location updating</b> - SwMI initiated location updating without group reporting  | IOP001-01<br>1.3.1  | -                  |
| TTR001-01<br>6.5   | <b>SwMI initiated location updating</b> - SwMI initiated location updating with group reporting   | IOP001-01<br>1.3.2  | N/A                |
| TTR001-01<br>6.6   | <b>De-registration</b> - De-registration  | IOP001-01<br>1.4    | -                  |
| TTR001-01<br>6.7   | <b>Subscriber class procedures</b>  | IOP001-01           |                    |
| TTR001-01<br>6.7   | <b>Subscriber class procedures</b> - Roaming to a Cell with a Subscriber Class Match  | IOP001-01<br>11.1.1 | P                  |
| TTR001-01<br>6.7   | <b>Subscriber class procedures</b> - Roaming to a Cell with no Subscriber Class Match SwMI rejects registration   | IOP001-01<br>11.2.1 | N/A                |
| TTR001-01<br>6.7   | <b>Subscriber class procedures</b> - Roaming to a Cell with no Subscriber Class Match SwMI accepts registration   | IOP001-01<br>11.2.2 | P1                 |
| TTR001-01<br>6.7   | <b>Subscriber class procedures</b> - MS subscriber class configuration altered at initial registration  | IOP001-01<br>11.3.1 | P                  |
| TTR001-01<br>6.7   | <b>Subscriber class procedures</b> - MS subscriber class configuration altered at roaming location update valid details for cell                            | IOP001-01<br>11.3.2 | P                  |
| TTR001-01<br>6.7   | <b>Subscriber class procedures</b> - MS subscriber class configuration altered at roaming location update inappropriate details for cell                    | IOP001-01<br>11.3.3 | P                  |
| TTR001-01<br>6.7.1 | <b>Preferred subscriber classes</b> - MS roaming to a cell with a highly preferred Subscriber Class Match   | IOP001-01<br>11.4.1 | No                 |
| TTR001-01<br>6.7.1 | <b>Preferred subscriber classes</b> - MS roaming to a cell with a preferred Subscriber Class match  | IOP001-01<br>11.4.2 | No                 |
| TTR001-01<br>6.7.1 | <b>Preferred subscriber classes</b> - Roaming to a Cell with an Inferior Subscriber Class Match   | IOP001-01<br>11.4.3 | No                 |
| TTR001-01<br>6.7.1 | <b>Preferred subscriber classes</b> - MS registration to BS offering the best services when serving cell goes into Fallback mode, not offering any services | IOP001-01<br>13.2.4 | N/A                |
| TTR001-01<br>7     | <b>Individual call</b>  | IOP001-01           |                    |
| TTR001-01<br>7     | <b>Individual call</b> - Individual call in BS Fallback mode of operation   | IOP001-01<br>13.4.3 | N/A                |
| TTR001-01<br>7.1   | <b>Call setup</b>   | IOP001-01           |                    |
| TTR001-01<br>7.1.1 | <b>Hook signalling</b> - Individual hook call setup   | IOP001-01<br>4.1.1  | P                  |
| TTR001-01<br>7.1.1 | <b>Hook signalling</b> - Individual call setup, resource queuing  | IOP001-01<br>4.1.3  | -                  |
| TTR001-01<br>7.1.1 | <b>Hook signalling</b> - Duplex call setup  | IOP001-01<br>4.2.1  | -                  |



| Nokia SwMI             |   |                      | Motorola<br>MTH800 |
|------------------------|---|----------------------|--------------------|
| TTR001-01<br>7.1.1     | Hook signalling - Duplex call setup, resource queuing   | IOP001-01<br>4.2.2   | -                  |
| TTR001-01<br>7.1.1     | Hook signalling - MS ISDN individual call   | IOP001-01<br>9.1     | No                 |
| TTR001-01<br>7.1.2     | Direct through-connect - Individual direct call setup   | IOP001-01<br>4.1.2   | -                  |
| TTR001-01<br>7.1.2     | Direct through-connect - Individual call setup, resource queuing  | IOP001-01<br>4.1.3   | -                  |
| TTR001-01<br>7.1.2     | Direct through-connect - MS ISDN individual call  | IOP001-01<br>9.1     | No                 |
| TTR001-01<br>7.1.3     | Call setup modifications  | IOP001-01            |                    |
| TTR001-01<br>7.1.3.1.4 | 'Point to point' to 'point to multipoint' - Emergency call setup, P2P to P2MP call modification   | IOP001-01<br>6.2.2   | -                  |
| TTR001-01<br>7.1.3.2   | Setup modification by called party  | IOP001-01            |                    |
| TTR001-01<br>7.1.3.2.1 | Direct to hook - Call setup Modification by Called Party, Direct to Hook, Calling Party signalling                                      | IOP001-01<br>4.3.1.1 | No                 |
| TTR001-01<br>7.1.3.2.1 | Direct to hook - Call setup Modification by Called Party, Direct to Hook, Called Party signalling                                       | IOP001-01<br>4.3.1.2 | No                 |
| TTR001-01<br>7.1.3.2.3 | 'Duplex' to 'simplex' - Call setup modification by Called Party, duplex to semi duplex, Calling Party signalling                        | IOP001-01<br>4.3.2.1 | -                  |
| TTR001-01<br>7.1.3.2.3 | 'Duplex' to 'simplex' - Call setup Modification by Called Party, duplex to semi-duplex, Called Party signalling                         | IOP001-01<br>4.3.2.2 | -                  |
| TTR001-01<br>7.2       | Transmission control  | IOP001-01            |                    |
| TTR001-01<br>7.2.1     | End of transmission - Individual hook call setup  | IOP001-01<br>4.1.1   | P                  |
| TTR001-01<br>7.2.1     | End of transmission - Individual direct call setup  | IOP001-01<br>4.1.2   | -                  |
| TTR001-01<br>7.2.2     | Request to transmit (no talker) - Individual hook call setup  | IOP001-01<br>4.1.1   | P                  |
| TTR001-01<br>7.2.2     | Request to transmit (no talker) - Individual direct call setup  | IOP001-01<br>4.1.2   | -                  |
| TTR001-01<br>7.2.2     | Request to transmit (no talker) - MS ISDN individual call   | IOP001-01<br>9.1     | No                 |
| TTR001-01<br>7.2.3     | Request to transmit (in the presence of an active talker) - Pre empty speech item request, non pre empty transmission request queuing   | IOP001-01<br>4.1.4   | -                  |
| TTR001-01<br>7.2.3     | Request to transmit (in the presence of an active talker) - Pre empty speech item request, non pre empty transmission request rejection | IOP001-01<br>4.1.5   | N/A                |
| TTR001-01<br>7.3       | Call maintenance  | IOP001-01            |                    |
| TTR001-01<br>7.3       | Call maintenance - Queuing during Individual call restoration, Transmitting   | IOP001-01<br>7.3.4.1 | P                  |
| TTR001-01<br>7.3       | Call maintenance - Queuing during Individual call restoration, Receiving (Announced cell reselection)                                   | IOP001-01<br>7.3.4.2 | No                 |
| TTR001-01<br>7.3       | Call maintenance - Queuing during Individual call restoration, Receiving (Unannounced)  | IOP001-01<br>7.3.4.3 | -                  |
| TTR001-01<br>7.3       | Call maintenance - Queuing during Individual call restoration, Communication inactivity (Announced cell reselection)                    | IOP001-01<br>7.3.5.1 | No                 |
| TTR001-01<br>7.3       | Call maintenance - Queuing during Individual call restoration, Communication inactivity (Unannounced)                                   | IOP001-01<br>7.3.5.2 | -                  |
| TTR001-01<br>7.3       | Call maintenance - Queuing during Duplex call restoration (Announced cell reselection)  | IOP001-01<br>7.4.2   | -                  |
| TTR001-01<br>7.4       | Call disconnection  | IOP001-01            |                    |
| TTR001-01<br>7.4       | Call disconnection - Individual hook call setup   | IOP001-01<br>4.1.1   | P                  |



| Nokia SwMI              |  |                      | Motorola<br>MTH800 |
|-------------------------|--|----------------------|--------------------|
| TTR001-01<br>7.4        | <b>Call disconnection</b> - Individual direct call setup   | IOP001-01<br>4.1.2   | -                  |
| TTR001-01<br>7.4        | <b>Call disconnection</b> - Duplex call setup  | IOP001-01<br>4.2.1   | -                  |
| TTR001-01<br>7.5        | <b>Emergency individual call</b>   | IOP001-01            |                    |
| TTR001-01<br>7.5        | <b>Emergency individual call</b> - Emergency individual call, resource pre-emption   | IOP001-01<br>6.2.1   | -                  |
| TTR001-01<br>7.5        | <b>Emergency individual call</b> - Emergency Individual call in BS Fallback mode of operation  | IOP001-01<br>13.4.4  | N/A                |
| TTR001-01<br>7.5.1      | <b>Emergency speech item request</b> - Emergency individual call, resource pre-emption   | IOP001-01<br>6.2.1   | -                  |
| TTR001-01<br>7.5.1      | <b>Emergency speech item request</b> - Emergency Individual call in BS Fallback mode of operation  | IOP001-01<br>13.4.4  | N/A                |
| TTR001-01<br>7.5.2      | <b>Emergency individual call setup modification</b> - Emergency call setup, P2P to P2MP call modification  | IOP001-01<br>6.2.2   | -                  |
| TTR001-01<br>7.6        | <b>Pre-emptive Priority Individual Call</b>  | IOP001-01            |                    |
| TTR001-01<br>7.6        | <b>Pre-emptive Priority Individual Call</b> - Pre-emptive priority individual call, resource pre-emption   | IOP001-01<br>4.1.6   | -                  |
| TTR001-01<br>7.6        | <b>Pre-emptive Priority Individual Call</b> - Pre-emptive priority individual call to user in individual call accepted by MS   | IOP001-01<br>4.1.7   | N/A                |
| TTR001-01<br>8          | <b>Group management</b>  | IOP001-01            |                    |
| TTR001-01<br>8.2        | <b>Definition of Class of Usage element</b>  | IOP001-01            |                    |
| TTR001-01<br>8.2.3      | <b>Class of Usage value 1112, 'Always scanned'</b> - Background group attachment and call to background group  | IOP001-01<br>2.1.7   | No                 |
| TTR001-01<br>8.2.3      | <b>Class of Usage value 1112, 'Always scanned'</b> - Background group attachment rejected  | IOP001-01<br>2.1.8   | No                 |
| TTR001-01<br>8.2.5      | <b>Class of Usage values 1012, 0112, 0102, 'High, normal, low priority scanned'</b> - Status to scanned group  | IOP001-01<br>5.1.2.3 | -                  |
| TTR001-01<br>8.2.7      | <b>Selected group and SwMI initiated attachment/detachments.</b> - SwMI initiated Temporary 1 group detachment and re-attachment of the selected group                         | IOP001-01<br>2.4.2   | -                  |
| TTR001-01<br>8.2.7      | <b>Selected group and SwMI initiated attachment/detachments.</b> - SwMI initiated Temporary 1 group detachment and re-attachment of the non-selected group                     | IOP001-01<br>2.4.3   | -                  |
| TTR001-01<br>8.2.12     | <b>Priority group scanning indication</b>  | IOP001-01            |                    |
| TTR001-01<br>8.2.12.1.2 | <b>Definition for scanning off</b> - Background group attachment and call to background group  | IOP001-01<br>2.1.7   | No                 |
| TTR001-01<br>8.2.12.3   | <b>When to send scanning on/off indication:</b> - Background group attachment and call to background group   | IOP001-01<br>2.1.7   | No                 |
| TTR001-01<br>8.2.12.4   | <b>Scanning on/off indication</b> - Background group attachment and call to background group   | IOP001-01<br>2.1.7   | No                 |
| TTR001-01<br>8.3        | <b>Interpretation of Attachment lifetime element</b>   | IOP001-01            |                    |
| TTR001-01<br>8.3        | <b>Interpretation of Attachment lifetime element</b> - Background group attachment and call to background group  | IOP001-01<br>2.1.7   | No                 |
| TTR001-01<br>8.4        | <b>Attachment of the selected group</b>  | IOP001-01            |                    |
| TTR001-01<br>8.4        | <b>Attachment of the selected group</b> - MS initiated single group attachment of the selected group by an MS, which can operate without a selected group, attachment accepted | IOP001-01<br>2.1.1   | -                  |
| TTR001-01<br>8.4        | <b>Attachment of the selected group</b> - MS initiated single group attachment of the selected group by an MS, which can operate without a selected group, rejection           | IOP001-01<br>2.1.3   | -                  |
| TTR001-01<br>8.4        | <b>Attachment of the selected group</b> - Null group attachment as the selected group  | IOP001-01<br>2.1.5   | -                  |
| TTR001-01<br>8.4        | <b>Attachment of the selected group</b> - Change of selected group   | IOP001-01<br>2.1.6   | -                  |



| Nokia SwMI         |   |                       | Motorola<br>MTH800 |
|--------------------|---|-----------------------|--------------------|
| TTR001-01<br>8.5   | <b>Multiple group attachment</b>  | IOP001-01             |                    |
| TTR001-01<br>8.5   | <b>Multiple group attachment</b> - MS initiated single group attachment of other than the selected group, attachment accepted                         | IOP001-01<br>2. 1. 2  | -                  |
| TTR001-01<br>8.5   | <b>Multiple group attachment</b> - MS initiated single group attachment of other than the selected group, rejection                                   | IOP001-01<br>2. 1. 4  | -                  |
| TTR001-01<br>8.5   | <b>Multiple group attachment</b> - Background group attachment and call to background group   | IOP001-01<br>2. 1. 7  | No                 |
| TTR001-01<br>8.5   | <b>Multiple group attachment</b> - MS initiated Multiple group attachment during MS registration (Selected group is first in list)                    | IOP001-01<br>2. 2. 1  | No                 |
| TTR001-01<br>8.5   | <b>Multiple group attachment</b> - MS initiated Multiple group attachment with attachment to selected group (Selected group is first in list)         | IOP001-01<br>2. 2. 2  | No                 |
| TTR001-01<br>8.5   | <b>Multiple group attachment</b> - MS initiated Multiple group attachment with no selected group  | IOP001-01<br>2. 2. 3  | -                  |
| TTR001-01<br>8.5   | <b>Multiple group attachment</b> - MS initiated Multiple group attachment, only the attachment of the selected group is accepted                      | IOP001-01<br>2. 2. 4  | N/A                |
| TTR001-01<br>8.5   | <b>Multiple group attachment</b> - MS initiated Multiple group attachment, rejection of some of the attached groups                                   | IOP001-01<br>2. 2. 5  | -                  |
| TTR001-01<br>8.5   | <b>Multiple group attachment</b> - MS initiated Multiple group attachment during MS registration (Selected group may not be first in list)            | IOP001-01<br>2. 2. 6  | -                  |
| TTR001-01<br>8.5   | <b>Multiple group attachment</b> - MS initiated Multiple group attachment with attachment to selected group (Selected group may not be first in list) | IOP001-01<br>2. 2. 7  | -                  |
| TTR001-01<br>8.6   | <b>MS initiated detachment</b>  | IOP001-01             |                    |
| TTR001-01<br>8.6   | <b>MS initiated detachment</b> - MS initiated group detachment of the selected group  | IOP001-01<br>2. 3. 1  | No                 |
| TTR001-01<br>8.6   | <b>MS initiated detachment</b> - MS initiated group detachment of the selected group and an attached group  | IOP001-01<br>2. 3. 2  | No                 |
| TTR001-01<br>8.7   | <b>SwMI initiated group attachment and detachment</b>   | IOP001-01             |                    |
| TTR001-01<br>8.7.1 | <b>SwMI initiated detachment</b> - SwMI initiated group detachment with another value than Temporary 1 detachment and attachment                      | IOP001-01<br>2. 4. 1  | N/A                |
| TTR001-01<br>8.7.1 | <b>SwMI initiated detachment</b> - SwMI initiated Temporary 1 group detachment and re-attachment of the selected group                                | IOP001-01<br>2. 4. 2  | -                  |
| TTR001-01<br>8.7.1 | <b>SwMI initiated detachment</b> - SwMI initiated Temporary 1 group detachment and re-attachment of the non-selected group                            | IOP001-01<br>2. 4. 3  | -                  |
| TTR001-01<br>8.7.2 | <b>SwMI initiated attachment</b> - SwMI initiated group detachment with another value than Temporary 1 detachment and attachment                      | IOP001-01<br>2. 4. 1  | N/A                |
| TTR001-01<br>8.7.2 | <b>SwMI initiated attachment</b> - SwMI initiated Temporary 1 group detachment and re-attachment of the selected group                                | IOP001-01<br>2. 4. 2  | -                  |
| TTR001-01<br>8.7.2 | <b>SwMI initiated attachment</b> - SwMI initiated Temporary 1 group detachment and re-attachment of the non-selected group                            | IOP001-01<br>2. 4. 3  | -                  |
| TTR001-01<br>8.7.4 | <b>SwMI initiated registration with group report request</b> - SwMI initiated location updating with group reporting                                  | IOP001-01<br>1. 3. 2  | N/A                |
| TTR001-01<br>8.7.5 | <b>SwMI initiated registration without group report request</b> - SwMI initiated location updating without group reporting                            | IOP001-01<br>1. 3. 1  | -                  |
| TTR001-01<br>9     | <b>Group call</b>   | IOP001-01             |                    |
| TTR001-01<br>9     | <b>Group call</b> - Group scanning  | IOP001-01<br>3. 8     | -                  |
| TTR001-01<br>9     | <b>Group call</b> - Group call in BS Fallback mode of operation   | IOP001-01<br>13. 4. 1 | N/A                |
| TTR001-01<br>9.1   | <b>Call setup</b>   | IOP001-01             |                    |
| TTR001-01<br>9.1   | <b>Call setup</b> - Normal group call   | IOP001-01<br>3. 1     | P                  |
| TTR001-01<br>9.1   | <b>Call setup</b> - Group call setup, resource queuing  | IOP001-01<br>3. 3     | -                  |
| TTR001-01<br>9.1   | <b>Call setup</b> - Group scanning  | IOP001-01<br>3. 8     | -                  |
| TTR001-01<br>9.1   | <b>Call setup</b> - MS ISDN group call  | IOP001-01<br>9. 2     | No                 |





| Nokia SwMI            |   |                       | Motorola<br>MTH800 |
|-----------------------|---|-----------------------|--------------------|
| TTR001-01<br>9. 1. 2  | Call setup modifications - Group call SwMI changes requested call priority  | IOP001-01<br>3. 7     | N/A                |
| TTR001-01<br>9. 2     | Transmission control  | IOP001-01             |                    |
| TTR001-01<br>9. 2. 1  | End of transmission - Normal group call   | IOP001-01<br>3. 1     | P                  |
| TTR001-01<br>9. 2. 1  | End of transmission - Group scanning  | IOP001-01<br>3. 8     | -                  |
| TTR001-01<br>9. 2. 2  | Request to transmit (no talker.) - Normal group call  | IOP001-01<br>3. 1     | P                  |
| TTR001-01<br>9. 2. 2  | Request to transmit (no talker.) - Group scanning   | IOP001-01<br>3. 8     | -                  |
| TTR001-01<br>9. 2. 2  | Request to transmit (no talker.) - MS ISDN group call   | IOP001-01<br>9. 2     | No                 |
| TTR001-01<br>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<br>3. 4     | P                  |
| TTR001-01<br>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<br>3. 5     | N/A                |
| TTR001-01<br>9. 3     | Call disconnection  | IOP001-01             |                    |
| TTR001-01<br>9. 3     | Call disconnection - Normal group call  | IOP001-01<br>3. 1     | P                  |
| TTR001-01<br>9. 3     | Call disconnection - Group call disconnection by call owner MS  | IOP001-01<br>3. 6     | -                  |
| TTR001-01<br>9. 5     | Late entry  | IOP001-01             |                    |
| TTR001-01<br>9. 5     | Late entry - Late entry   | IOP001-01<br>3. 2     | -                  |
| TTR001-01<br>9. 6     | Emergency group call  | IOP001-01             |                    |
| TTR001-01<br>9. 6     | Emergency group call - Emergency call setup to busy group, speech item interruption   | IOP001-01<br>6. 1. 1  | -                  |
| TTR001-01<br>9. 6     | Emergency group call - Emergency group call, resource pre emption   | IOP001-01<br>6. 1. 2  | -                  |
| TTR001-01<br>9. 6     | Emergency group call - Pre emption during Group call restoration, Transmitting (Announced cell reselection)                                   | IOP001-01<br>7. 2. 5  | P                  |
| TTR001-01<br>9. 6     | Emergency group call - Emergency Group call in BS Fallback mode of operation  | IOP001-01<br>13. 4. 2 | N/A                |
| TTR001-01<br>9. 6. 1  | Emergency speech item request - Emergency call setup to busy group, speech item interruption  | IOP001-01<br>6. 1. 1  | -                  |
| TTR001-01<br>9. 6. 1  | Emergency speech item request - Emergency Group call in BS Fallback mode of operation   | IOP001-01<br>13. 4. 2 | N/A                |
| TTR001-01<br>9. 6. 2  | Emergency group call setup modification - Emergency call setup, P2MP to P2P call modification   | IOP001-01<br>6. 1. 3  | No                 |
| TTR001-01<br>9. 7     | Pre-emptive Priority Group Call   | IOP001-01             |                    |
| TTR001-01<br>9. 7     | Pre-emptive Priority Group Call - Group Call, pre emptive priority, resource pre emption  | IOP001-01<br>3. 9     | -                  |
| TTR001-01<br>9. 7     | Pre-emptive Priority Group Call - Pre emption of busy user in an individual call, accepted  | IOP001-01<br>3.10     | N/A                |
| TTR001-01<br>9. 7     | Pre-emptive Priority Group Call - Pre emption of busy user in group call, accepted  | IOP001-01<br>3.11     | -                  |
| TTR001-01<br>9. 7     | Pre-emptive Priority Group Call - Pre emption on busy user, rejected  | IOP001-01<br>3.12     | N/A                |
| TTR001-01<br>10       | Cell re-selection   | IOP001-01             |                    |
| TTR001-01<br>10. 1    | Undeclared cell re-selection  | IOP001-01             |                    |
| TTR001-01<br>10. 1    | Undeclared cell re-selection - Cell re selection without communication activity   | IOP001-01<br>7. 1. 1  | P                  |
| TTR001-01<br>10. 2    | Cell re-selection with call restoration   | IOP001-01             |                    |
| TTR001-01<br>10. 2. 1 | Unannounced cell re-selection - Group call restoration, Receiving (Unannounced)   | IOP001-01<br>7. 2. 2  | -                  |



| Nokia SwMI            |  |                         | Motorola<br>MTH800 |
|-----------------------|--|-------------------------|--------------------|
| TTR001-01<br>10. 2. 1 | <b>Unannounced cell re-selection</b> - Queuing during Group call restoration, Receiving (Unannounced)  | IOP001-01<br>7. 2. 4    | -                  |
| TTR001-01<br>10. 2. 1 | <b>Unannounced cell re-selection Type without Preferred Neighbour Selected</b> Individual call restoration, Transmitting party (Radio link failure)  | IOP001-01<br>7. 3. 1. 2 | -                  |
| TTR001-01<br>10. 2. 1 | <b>Unannounced cell re-selection</b> - Individual call restoration, Receiving (Unannounced)  | IOP001-01<br>7. 3. 2. 2 | -                  |
| TTR001-01<br>10. 2. 1 | <b>Unannounced cell re-selection</b> - Individual call restoration, Communication inactivity (Unannounced)   | IOP001-01<br>7. 3. 3. 2 | P                  |
| TTR001-01<br>10. 2. 1 | <b>Unannounced cell re-selection</b> - Queuing during Individual call restoration, Receiving (Unannounced)   | IOP001-01<br>7. 3. 4. 3 | -                  |
| TTR001-01<br>10. 2. 1 | <b>Unannounced cell re-selection</b> - Queuing during Individual call restoration, Communication inactivity (Unannounced)  | IOP001-01<br>7. 3. 5. 2 | -                  |
| TTR001-01<br>10. 2. 2 | <b>Announced Cell Re-selection Type without Preferred Neighbour Selected</b> - Group call restoration, Transmitting (Announced cell reselection)   | IOP001-01<br>7. 2. 1    | P                  |
| TTR001-01<br>10. 2. 2 | <b>Announced Cell Re-selection Type without Preferred Neighbour Selected</b> - Queuing during Group call restoration, Transmitting (Announced cell reselection)  | IOP001-01<br>7. 2. 3    | -                  |
| TTR001-01<br>10. 2. 2 | <b>Announced Cell Re-selection Type without Preferred Neighbour Selected</b> - Pre emptio during Group call restoration, Transmitting (Announced cell reselection)   | IOP001-01<br>7. 2. 5    | -                  |
| TTR001-01<br>10. 2. 2 | <b>Announced cell re-selection Type without Preferred Neighbour Selected</b> Individual call restoration, Transmitting party (Announced type 3)  | IOP001-01<br>7. 3. 1. 1 | -                  |
| TTR001-01<br>10. 2. 2 | <b>Announced Cell Re-selection Type without Preferred Neighbour Selected</b> - Individual call restoration, Receiving (Announced cell reselection)   | IOP001-01<br>7. 3. 2. 1 | No                 |
| TTR001-01<br>10. 2. 2 | <b>Announced Cell Re-selection Type without Preferred Neighbour Selected</b> - Individual call restoration, Communication inactivity (Announced cell reselection)  | IOP001-01<br>7. 3. 3. 1 | No                 |
| TTR001-01<br>10. 2. 2 | <b>Announced Cell Re-selection Type without Preferred Neighbour Selected</b> - Queuing during Individual call restoration, Transmitting  | IOP001-01<br>7. 3. 4. 1 | P                  |
| TTR001-01<br>10. 2. 2 | <b>Announced Cell Re-selection Type without Preferred Neighbour Selected</b> - Queuing during Individual call restoration, Receiving (Announced cell reselection)  | IOP001-01<br>7. 3. 4. 2 | No                 |
| TTR001-01<br>10. 2. 2 | <b>Announced Cell Re-selection Type without Preferred Neighbour Selected</b> - Queuing during Individual call restoration, Communication inactivity (Announced cell reselection)   | IOP001-01<br>7. 3. 5. 1 | No                 |
| TTR001-01<br>10. 2. 2 | <b>Announced Cell Re-selection Type without Preferred Neighbour Selected</b> - Duplex call restoration (Announced cell reselection)  | IOP001-01<br>7. 4. 1    | -                  |
| TTR001-01<br>10. 2. 2 | <b>Announced Cell Re-selection Type without Preferred Neighbour Selected</b> - Queuing during Duplex call restoration (Announced cell reselection)   | IOP001-01<br>7. 4. 2    | -                  |
| TTR001-01<br>10. 2. 3 | <b>Announced Cell Re-selection Type with Preferred Neighbour Selected</b> - Group call, Announced cell reselection with Preferred Neighbour Selected and with Call Restoration, Transmitting                               | IOP001-01<br>7. 2. 7    | -                  |
| TTR001-01<br>10. 2. 3 | <b>Announced Cell Re-selection Type with Preferred Neighbour Selected</b> - Individual call, Announced cell reselection with Preferred Neighbour Selected and with Call Restoration, Transmitting                          | IOP001-01<br>7. 3. 6    | -                  |
| TTR001-01<br>10. 3    | <b>Cell Re-selection without Call Restoration (Seamless Handover)</b>  | IOP001-01               |                    |
| TTR001-01<br>10. 3. 1 | <b>Announced Type with Preferred Neighbour Selected and without Forward Registration</b> - Group call, Announced cell reselection without Call Restoration (Seamless Handover), without Forward Registration, Transmitting | IOP001-01<br>7. 2. 6    | N/A                |



| Nokia SwMI            |   |                      | Motorola<br>MTH800 |
|-----------------------|---|----------------------|--------------------|
| TTR001-01<br>10.3.1   | <b>Announced Type with Preferred Neighbour Selected and without Forward Registration</b> - Duplex call, Announced cell reselection without Call Restoration (Seamless Handover), without Forward Registration             | IOP001-01<br>7.4.3   | N/A                |
| TTR001-01<br>10.3.2   | <b>Announced Type with Preferred Neighbour Selected and with Forward Registration</b> - Group call, Announced cell reselection without Call Restoration (Seamless Handover), with Forward Registration, Transmitting      | IOP001-01<br>7.2.8   | No                 |
| TTR001-01<br>10.3.2   | <b>Announced Type with Preferred Neighbour Selected and with Forward Registration</b> - Individual call, Announced cell reselection without Call Restoration (Seamless Handover), with Forward Registration, Transmitting | IOP001-01<br>7.3.7   | No                 |
| TTR001-01<br>11       | <b>Short data service</b>   | IOP001-01            |                    |
| TTR001-01<br>11       | <b>Short data service</b> - Individually addressed Status transfer in BS Fallback mode of operation   | IOP001-01<br>13.4.5  | N/A                |
| TTR001-01<br>11.1     | <b>Status messages</b>  | IOP001-01            |                    |
| TTR001-01<br>11.1.1   | <b>Service Overview</b> - MS ISDN addressed individual Status message   | IOP001-01<br>9.3     | No                 |
| TTR001-01<br>11.1.1   | <b>Service Overview</b> - MS ISDN addressed group Status message  | IOP001-01<br>9.4     | No                 |
| TTR001-01<br>11.1.3.1 | <b>MS to Wireline Dispatcher with Status Acknowledge</b> - Status transfer to Dispatcher  | IOP001-01<br>5.1.2.2 | -                  |
| TTR001-01<br>11.1.3.2 | <b>MS to MS/Group with General Status Acknowledge</b> - Individual addressed Status transfer  | IOP001-01<br>5.1.1   | -                  |
| TTR001-01<br>11.1.3.2 | <b>MS to MS/Group with General Status Acknowledge</b> - Status transfer to group  | IOP001-01<br>5.1.2.1 | -                  |
| TTR001-01<br>11.1.3.2 | <b>MS to MS/Group with General Status Acknowledge</b> - Status to scanned group   | IOP001-01<br>5.1.2.3 | -                  |
| TTR001-01<br>11.1.3.2 | <b>MS to MS/Group with General Status Acknowledge</b> - MS ISDN addressed individual Status message   | IOP001-01<br>9.3     | No                 |
| TTR001-01<br>11.1.3.2 | <b>MS to MS/Group with General Status Acknowledge</b> - MS ISDN addressed group Status message  | IOP001-01<br>9.4     | No                 |
| TTR001-01<br>12       | <b>Telephone call</b>   | IOP001-01            |                    |
| TTR001-01<br>12.1     | <b>Gateway Addresses</b>  | IOP001-01            |                    |
| TTR001-01<br>12.1     | <b>Gateway Addresses</b> - TETRA originated call setup to PSTN subscriber   | IOP001-01<br>8.1     | -                  |
| TTR001-01<br>12.2     | <b>Call Set-up</b>  | IOP001-01            |                    |
| TTR001-01<br>12.2.1   | <b>MS Originated, Late Through-Connect</b> - TETRA originated call setup to PSTN subscriber   | IOP001-01<br>8.1     | -                  |
| TTR001-01<br>12.2.2   | <b>MS Originated, Early Through-Connect</b> - TETRA originated call setup to PSTN subscriber  | IOP001-01<br>8.1     | -                  |
| TTR001-01<br>12.2.3   | <b>MS Originated, Call Queued</b> - TETRA originated call setup queuing to PSTN subscriber (call setup to PSTN is started before resources are available)   | IOP001-01<br>8.2.1   | -                  |
| TTR001-01<br>12.2.3   | <b>MS Originated, Call Queued</b> - TETRA originated call setup queuing to PSTN subscriber (call setup to PSTN is delayed until resources are available)  | IOP001-01<br>8.2.2   | N/A                |
| TTR001-01<br>12.2.4   | <b>MS Terminated</b> - PSTN originated call   | IOP001-01<br>8.3     | -                  |
| TTR001-01<br>12.4     | <b>DTMF Over-dial</b>   | IOP001-01            |                    |
| TTR001-01<br>12.4     | <b>DTMF Over-dial</b> - TETRA originated successful DTMF over dial  | IOP001-01<br>8.4     | -                  |
| TTR001-01<br>12.4     | <b>DTMF Over-dial</b> - TETRA originated unsuccessful DTMF over dial  | IOP001-01<br>8.5     | -                  |



| Nokia SwMI            |   |                       | Motorola<br>MTH800 |
|-----------------------|---|-----------------------|--------------------|
| TTR001-01<br>12. 5    | <b>Disconnect Causes</b>  | IOP001-01             |                    |
| TTR001-01<br>12. 5    | <b>Disconnect Causes</b> - TETRA originated call setup to PSTN subscriber   | IOP001-01<br>8. 1     | -                  |
| TTR001-01<br>12. 5    | <b>Disconnect Causes</b> - TETRA originated call setup queuing to PSTN subscriber (call setup to PSTN is started before resources are available)                        | IOP001-01<br>8. 2. 1  | -                  |
| TTR001-01<br>12. 5    | <b>Disconnect Causes</b> - TETRA originated call setup queuing to PSTN subscriber (call setup to PSTN is delayed until resources are available)                         | IOP001-01<br>8. 2. 2  | N/A                |
| TTR001-01<br>12. 5    | <b>Disconnect Causes</b> - PSTN originated call   | IOP001-01<br>8. 3     | -                  |
| TTR001-01<br>12. 6    | <b>Emergency telephone call</b>   | IOP001-01             |                    |
| TTR001-01<br>12. 6    | <b>Emergency telephone call</b> - Emergency call to emergency number  | IOP001-01<br>6. 3. 1  | No                 |
| TTR001-01<br>13       | <b>BS Fallback Operation</b>  | IOP001-01             |                    |
| TTR001-01<br>13       | <b>BS Fallback Operation.</b> - Group call in BS Fallback mode of operation   | IOP001-01<br>13. 4. 1 | N/A                |
| TTR001-01<br>13       | <b>BS Fallback Operation.</b> - Emergency Group call in BS Fallback mode of operation   | IOP001-01<br>13. 4. 2 | N/A                |
| TTR001-01<br>13       | <b>BS Fallback Operation.</b> - Individual call in BS Fallback mode of operation  | IOP001-01<br>13. 4. 3 | N/A                |
| TTR001-01<br>13       | <b>BS Fallback Operation.</b> - Emergency Individual call in BS Fallback mode of operation  | IOP001-01<br>13. 4. 4 | N/A                |
| TTR001-01<br>13       | <b>BS Fallback Operation.</b> - Individually addressed Status transfer in BS Fallback mode of operation   | IOP001-01<br>13. 4. 5 | N/A                |
| TTR001-01<br>13       | <b>BS Fallback Operation.</b> - SDS transfer to individual in BS Fallback mode of operation   | IOP001-01<br>13. 4. 6 | N/A                |
| TTR001-01<br>13       | <b>BS Fallback Operation.</b> - TETRA Packet Mode service in BS Fallback mode of operation  | IOP001-01<br>13. 4. 7 | N/A                |
| TTR001-01<br>13. 1    | <b>Start of fallback</b>  | IOP001-01             |                    |
| TTR001-01<br>13. 1    | <b>Start of fallback</b> - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, not offering any services                          | IOP001-01<br>13. 2. 1 | N/A                |
| TTR001-01<br>13. 1    | <b>Start of fallback</b> - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, offering some services                             | IOP001-01<br>13. 2. 2 | P                  |
| TTR001-01<br>13. 2    | <b>Informing MS of Neighbour BS Capabilities</b>  | IOP001-01             |                    |
| TTR001-01<br>13. 2. 2 | <b>Neighbour cell operating in fallback mode:</b> - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, not offering any services | IOP001-01<br>13. 2. 1 | N/A                |
| TTR001-01<br>13. 2. 2 | <b>Neighbour cell operating in fallback mode:</b> - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, offering some services    | IOP001-01<br>13. 2. 2 | P                  |
| TTR001-01<br>13. 3    | <b>Informing MS of Current BS Capabilities</b>  | IOP001-01             |                    |
| TTR001-01<br>13. 3. 1 | <b>Serving cell NOT operating in fallback mode:</b> - Temporary registration on BS in Fallback mode of operation, and re registration when BS returns to Normal mode    | IOP001-01<br>13. 1. 2 | P                  |
| TTR001-01<br>13. 3. 1 | <b>Serving cell NOT operating in fallback mode:</b> - Registration on BS in Fallback mode of operation, without need for re registration when BS returns to Normal mode | IOP001-01<br>13. 1. 3 | N/A                |
| TTR001-01<br>13. 3. 2 | <b>Serving cell operating in fallback mode:</b> - BS switches from Normal mode to Fallback mode of operation  | IOP001-01<br>13. 1. 1 | P                  |
| TTR001-01<br>13. 3. 2 | <b>Serving cell operating in fallback mode:</b> - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, not offering any services   | IOP001-01<br>13. 2. 1 | N/A                |
| TTR001-01<br>13. 3. 2 | <b>Serving cell operating in fallback mode:</b> - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, offering some services      | IOP001-01<br>13. 2. 2 | P                  |



| Nokia SwMI               |  |                       | Motorola<br>MTH800 |
|--------------------------|--|-----------------------|--------------------|
| TTR001-01<br>13. 3. 2    | <b>Serving cell operating in fallback mode:</b> - MS registration to BS offering some services in Fallback mode when serving cell goes into Fallback mode, not offering any services | IOP001-01<br>13. 2. 3 | N/A                |
| TTR001-01<br>13. 3. 2    | <b>Serving cell operating in fallback mode:</b> - MS registration to BS offering the best services when serving cell goes into Fallback mode, not offering any services              | IOP001-01<br>13. 2. 4 | N/A                |
| TTR001-01<br>13. 3. 2    | <b>Serving cell operating in fallback mode</b> - Unsupported service in BS Fallback mode of operation  | IOP001-01<br>13. 4. 8 | N/A                |
| TTR001-01<br>13. 3. 2    | <b>Serving cell operating in fallback mode:</b> - Group call late entry in BS fallback mode of operation.  | IOP001-01<br>13. 4. 9 | P                  |
| TTR001-01<br>13. 3. 2. 1 | <b>BS not offering any services</b> - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, not offering any services                            | IOP001-01<br>13. 2. 1 | N/A                |
| TTR001-01<br>13. 3. 2. 1 | <b>BS not offering any services</b> - MS registration to BS offering some services in Fallback mode when serving cell goes into Fallback mode, not offering any services             | IOP001-01<br>13. 2. 3 | N/A                |
| TTR001-01<br>13. 3. 2. 1 | <b>BS not offering any services</b> - MS registration to BS offering the best services when serving cell goes into Fallback mode, not offering any services                          | IOP001-01<br>13. 2. 4 | N/A                |
| TTR001-01<br>13. 4       | <b>Method of Service Operation in Fallback BS:</b>   | IOP001-01             |                    |
| TTR001-01<br>13. 4       | <b>Method of Service Operation in Fallback BS:</b> - Group call in BS Fallback mode of operation   | IOP001-01<br>13. 4. 1 | N/A                |
| TTR001-01<br>13. 4       | <b>Method of Service Operation in Fallback BS:</b> - Emergency Group call in BS Fallback mode of operation   | IOP001-01<br>13. 4. 2 | N/A                |
| TTR001-01<br>13. 4       | <b>Method of Service Operation in Fallback BS:</b> - Individual call in BS Fallback mode of operation  | IOP001-01<br>13. 4. 3 | N/A                |
| TTR001-01<br>13. 4       | <b>Method of Service Operation in Fallback BS:</b> - Emergency Individual call in BS Fallback mode of operation  | IOP001-01<br>13. 4. 4 | N/A                |
| TTR001-01<br>13. 4       | <b>Method of Service Operation in Fallback BS:</b> - Individually addressed Status transfer in BS Fallback mode of operation   | IOP001-01<br>13. 4. 5 | N/A                |
| TTR001-01<br>13. 4       | <b>Method of Service Operation in Fallback BS:</b> - SDS transfer to individual in BS Fallback mode of operation   | IOP001-01<br>13. 4. 6 | N/A                |
| TTR001-01<br>13. 4       | <b>Method of Service Operation in Fallback BS:</b> - TETRA Packet Mode service in BS Fallback mode of operation  | IOP001-01<br>13. 4. 7 | N/A                |
| TTR001-01<br>13. 4       | <b>Method of Service Operation in Fallback BS:</b> - Unsupported service in BS Fallback mode of operation  | IOP001-01<br>13. 4. 8 | N/A                |
| TTR001-01<br>13. 4       | <b>Method of Service Operation in Fallback BS:</b> - Group call late entry in BS fallback mode of operation.   | IOP001-01<br>13. 4. 9 | P                  |
| TTR001-01<br>13. 5       | <b>Terminals during fallback mode</b>  | IOP001-01             |                    |
| TTR001-01<br>13. 5       | <b>Terminals during fallback mode</b> - BS switches from Normal mode to Fallback mode of operation   | IOP001-01<br>13. 1. 1 | P                  |
| TTR001-01<br>13. 5       | <b>Terminals during fallback mode</b> - Temporary registration on BS in Fallback mode of operation, and re registration when BS returns to Normal mode                               | IOP001-01<br>13. 1. 2 | P2                 |
| TTR001-01<br>13. 5       | <b>Terminals during fallback mode</b> - Registration on BS in Fallback mode of operation, without need for re registration when BS returns to Normal mode                            | IOP001-01<br>13. 1. 3 | N/A                |
| TTR001-01<br>13. 5       | <b>Terminals during fallback mode</b> - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, not offering any services                          | IOP001-01<br>13. 2. 1 | N/A                |
| TTR001-01<br>13. 5       | <b>Terminals during fallback mode</b> - MS registration to BS operating in Normal mode when serving cell goes into Fallback mode, offering some services                             | IOP001-01<br>13. 2. 2 | P                  |
| TTR001-01<br>13. 5       | <b>Terminals during fallback mode</b> - MS registration to BS offering some services in Fallback mode when serving cell goes into Fallback mode, not offering any services           | IOP001-01<br>13. 2. 3 | N/A                |
| TTR001-01<br>13. 5       | <b>Terminals during fallback mode</b> - MS registration to BS offering the best services when serving cell goes into Fallback mode, not offering any services                        | IOP001-01<br>13. 2. 4 | N/A                |



| Nokia SwMI            |   |                     | Motorola<br>MTH800 |
|-----------------------|---|---------------------|--------------------|
| TTR001-01<br>13.5     | <b>Terminals during fallback mode</b> - MS camped on cell operating in Normal mode avoids roaming to BS operating in Fallback mode, offering some services              | IOP001-01<br>13.3.1 | -                  |
| TTR001-01<br>13.5     | <b>Terminals during fallback mode</b> - MS camped on cell operating in Normal mode does not attempt roaming to BS operating in Fallback mode, not offering any services | IOP001-01<br>13.3.2 | N/A                |
| TTR001-01<br>13.5     | <b>Terminals during fallback mode</b> - Unsupported service in BS Fallback mode of operation  | IOP001-01<br>13.4.8 | N/A                |
| TTR001-01<br>13.5     | <b>Terminals during fallback mode</b> - Group call late entry in BS fallback mode of operation.   | IOP001-01<br>13.4.9 | P                  |
| TTR001-01<br>14       | <b>Layer 2 operation</b>  | IOP001-01           |                    |
| TTR001-01<br>14.1     | <b>MAC-Layer</b>  | IOP001-01           |                    |
| TTR001-01<br>14.1.1.2 | <b>Traffic channel (TCH)</b> - Usage of uplink SACCH during group call  | IOP001-01<br>10.2   | No                 |
| TTR001-01<br>14.1.1.2 | <b>Traffic channel (TCH)</b> - Usage of uplink SACCH during individual call   | IOP001-01<br>10.4   | No                 |
| TTR001-01<br>14.1.1.2 | <b>Traffic channel (TCH)</b> - Usage of downlink SACCH, receiving group call  | IOP001-01<br>10.6   | -                  |
| TTR001-01<br>14.1.1.2 | <b>Traffic channel (TCH)</b> - Usage of downlink SACCH, receiving individual call   | IOP001-01<br>10.8   | -                  |
| TTR001-01<br>14.1.1.3 | <b>Fast Associated Control Channel (FACCH)</b> - Usage of downlink FACCH, group call inactivity   | IOP001-01<br>10.5   | -                  |
| TTR001-01<br>14.1.1.4 | <b>Uplink FACCH and downlink TCH</b> - Usage of uplink FACCH during group call  | IOP001-01<br>10.1   | No                 |
| TTR001-01<br>14.1.1.4 | <b>Uplink FACCH and downlink TCH</b> - Usage of uplink FACCH during individual call   | IOP001-01<br>10.3   | No                 |
| TTR001-01<br>14.1.1.5 | <b>Downlink FACCH and uplink TCH</b> - Usage of downlink FACCH, transmitting individual call  | IOP001-01<br>10.7   | No                 |
| TTR001-01<br>14.1.10  | <b>Common Secondary Control Channels (Common SCCH) [Extended Mode.]</b> - SwMI supporting one C SCCH  | IOP001-01<br>12.1   | N/A                |
| TTR001-01<br>14.1.10  | <b>Common Secondary Control Channels (Common SCCH) [Extended Mode.]</b> - MS allocation altering at a Registration  | IOP001-01<br>12.2   | N/A                |
| TTR001-01<br>14.1.10  | <b>Common Secondary Control Channels (Common SCCH) [Extended Mode.]</b> - SwMI supporting two C SCCHs   | IOP001-01<br>12.3   | N/A                |
| TTR001-01<br>14.1.10  | <b>Common Secondary Control Channels (Common SCCH) [Extended Mode.]</b> - SwMI supporting three C SCCHs   | IOP001-01<br>12.4   | N/A                |
| TTR001-01<br>14.1.10  | <b>Common Secondary Control Channels (Common SCCH) [Extended Mode.]</b> - MS Roams from a cell supporting two C SCCHs to a cell supporting three C SCCHs                | IOP001-01<br>12.5   | N/A                |
| TTR001-01<br>14.1.10  | <b>Common Secondary Control Channels (Common SCCH) [Extended Mode.]</b> - MS Roams from a cell supporting one C SCCH to a cell supporting two C SCCHs                   | IOP001-01<br>12.6   | N/A                |
| TTR001-01<br>14.1.10  | <b>Common Secondary Control Channels (Common SCCH) [Extended Mode.]</b> - MS Roams from a cell supporting no C SCCHs to a cell supporting one C SCCH                    | IOP001-01<br>12.7   | N/A                |
| TTR001-03             | <b>DGNA</b>   | IOP001-03           |                    |
| TTR001-03<br>7        | <b>SS-DGNA not supported</b>  | IOP001-03           |                    |
| TTR001-03<br>8        | <b>Supported SS-DGNA functions</b>  | IOP001-03           |                    |
| TTR001-03<br>8.1      | <b>Group assignment</b>   | IOP001-03           |                    |
| TTR001-03<br>8.1      | <b>Group assignment</b> DGNA assignment without attachment.   | IOP001-03<br>1.2.1  | N/A                |
| TTR001-03<br>8.1      | <b>Group assignment</b> DGNA assign with attachment as selected group, MS has no selected group.  | IOP001-03<br>1.3.1  | N/A                |
| TTR001-03<br>8.1      | <b>Group assignment</b> DGNA assign with attachment as selected group, MS has selected group.   | IOP001-03<br>1.3.2  | N/A                |
| TTR001-03<br>8.1      | <b>Group assignment</b> DGNA assign with attachment, attachment not allowed at next ITSI attach.  | IOP001-03<br>1.4.1  | N/A                |



| Nokia SwMI           |  |                      | Motorola<br>MTH800 |
|----------------------|--|----------------------|--------------------|
| TTR001-03<br>8. 1    | <b>Group assignment</b> DGNA assign with attachment, attachment required at next ITSI attach.  | IOP001-03<br>1. 4. 2 | P                  |
| TTR001-03<br>8. 1    | <b>Group assignment</b> DGNA assign with attachment, pre programmed group.   | IOP001-03<br>1. 4. 3 | P                  |
| TTR001-03<br>8. 1    | <b>Group assignment</b> DGNA assign with attachment as scanned group, MS has selected group.   | IOP001-03<br>1. 5. 1 | P                  |
| TTR001-03<br>8. 1    | <b>Group assignment</b> DGNA assign, with embedded attachment rejected by MS.  | IOP001-03<br>1. 6. 1 | -                  |
| TTR001-03<br>8. 1. 1 | <b>Assignment of a group without attachment</b> DGNA assignment without attachment.  | IOP001-03<br>1. 2. 1 | N/A                |
| TTR001-03<br>8. 1. 2 | <b>Assignment of a group with attachment</b> DGNA assign with attachment as selected group, MS has no selected group.                | IOP001-03<br>1. 3. 1 | N/A                |
| TTR001-03<br>8. 1. 2 | <b>Assignment of a group with attachment</b> DGNA assign with attachment as selected group, MS has selected group.                   | IOP001-03<br>1. 3. 2 | N/A                |
| TTR001-03<br>8. 1. 2 | <b>Assignment of a group with attachment</b> DGNA assign with attachment, attachment not allowed at next ITSI attach.                | IOP001-03<br>1. 4. 1 | N/A                |
| TTR001-03<br>8. 1. 2 | <b>Assignment of a group with attachment</b> DGNA assign with attachment, attachment required at next ITSI attach.                   | IOP001-03<br>1. 4. 2 | P                  |
| TTR001-03<br>8. 1. 2 | <b>Assignment of a group with attachment</b> DGNA assign with attachment as scanned group, MS has selected group.                    | IOP001-03<br>1. 5. 1 | P                  |
| TTR001-03<br>8. 1. 2 | <b>Assignment of a group with attachment</b> DGNA assign, with embedded attachment rejected by MS.                                   | IOP001-03<br>1. 6. 1 | -                  |
| TTR001-03<br>8. 2    | <b>Group de-assignment</b>   | IOP001-03            |                    |
| TTR001-03<br>8. 2    | <b>Group de – assignment</b> Removing radio subscriber from selected DGNA group.   | IOP001-03<br>1. 7. 1 | P                  |
| TTR001-03<br>8. 2    | <b>Group de – assignment</b> De-assignment of MS from pre-programmed selected group.   | IOP001-03<br>1. 7. 2 | P                  |
| TTR001-03<br>8. 2    | <b>Group de-assignment</b> De-assignment of MS from pre-programmed scanned group.  | IOP001-03<br>1. 7. 3 | P                  |
| TTR001-07            | <b>FSSN</b>  | IOP001-07            |                    |
| TTR001-07<br>2. 6    | <b>Signalling examples</b>   | IOP001-07            |                    |
| TTR001-07<br>2. 6. 1 | <b>Individual call using FSSN</b> Individual intra FSSN call within a fleet..  | IOP001-07<br>1. 1    | P                  |
| TTR001-07<br>2. 6. 1 | <b>Individual call using FSSN</b> Individual intra FSSN call between two fleet.  | IOP001-07<br>1. 2    | P                  |
| TTR001-07<br>2. 6. 2 | <b>Group call within single FSSN domain using FSSN for CPI/TPI</b> Group call within single FSSN domain.                             | IOP001-07<br>1. 3    | P                  |
| TTR001-07<br>2. 6. 3 | <b>Group call maintenance using FSSN for TPI</b> Group call within single FSSN domain.   | IOP001-07<br>1. 3    | P                  |
| TTR001-07<br>2. 6. 4 | <b>Individually and group addressed status messages</b> Individually addressed FSSN status messages.                                 | IOP001-07<br>1. 4    | P                  |
| TTR001-07<br>2. 6. 4 | <b>Individually and group addressed status messages</b> FSSN as a CPI in group addressed status message.                             | IOP001-07<br>1. 5    | P                  |
| TTR001-07<br>2. 6. 5 | <b>Individually and group addressed SDS text status messages</b> Individually addressed FSSN SDS-TL messages.                        | IOP001-07<br>1. 6    | P                  |
| TTR001-07<br>2. 6. 5 | <b>Individually and group addressed SDS text status messages</b> Group addressed FSSN SDS-TL messages.                               | IOP001-07<br>1. 7    | No                 |
| TTR001-09            | <b>AMBIENCE LISTENING</b>  | IOP001-09            |                    |
| TTR001-09<br>2. 5    | <b>SS-AL Signalling</b>  | IOP001-09            |                    |
| TTR001-09<br>2. 5. 1 | <b>SS-AL Call set-up</b> Ambience listening call set-up.   | IOP001-09<br>1. 1    | P                  |
| TTR001-09<br>2. 5. 2 | <b>SwMI initiated disconnection of SS-AL call</b> Ambience listening call set-up.  | IOP001-09<br>1. 1    | P                  |
| TTR001-09<br>2. 5. 2 | <b>SwMI initiated disconnection of SS-AL call</b> Ambience Listening Call set-up to MS that has an active PDP context.               | IOP001-09<br>1. 5    | P                  |
| TTR001-09<br>2. 5. 4 | <b>Affected user MS attempts to make a new call during SS-AL call</b> MS makes a new individual call during Ambience Listening call. | IOP001-09<br>1. 2    | P                  |



| Nokia SwMI              |   |                         | Motorola<br>MTH800 |
|-------------------------|---|-------------------------|--------------------|
| TTR001-09<br>2. 5. 5. 1 | <b>PDP context activation during SS-AL call</b> MS activates PDP context during Ambience Listening call.  | IOP001-09<br>1. 3       | P                  |
| TTR001-09<br>2. 5. 5. 2 | <b>MS attempts to start a packet data instance during SS-AL call</b> MS starts Packet Data transfer during Ambience Listening call.                                 | IOP001-09<br>1. 4       | P                  |
| TTR001-09<br>2. 5. 5. 4 | <b>SS-AL call set-up to MS that has an active PDP context</b> Ambience Listening Call set-up to MS that has an active PDP context.                                  | IOP001-09<br>1. 5       | P                  |
| TTR001-11               | <b>AIE</b>  | IOP001-11               |                    |
| TTR001-11<br>2. 3. 5    | <b>DCK Retrieval supported by SwMI</b>  | IOP001-11               |                    |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.       | IOP001-11<br>2. 2. 1. 1 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.         | IOP001-11<br>2. 2. 1. 2 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.           | IOP001-11<br>2. 2. 1. 3 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.             | IOP001-11<br>2. 2. 1. 4 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                      | IOP001-11<br>2. 2. 1. 5 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK.                        | IOP001-11<br>2. 2. 1. 6 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.              | IOP001-11<br>2. 2. 2. 1 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.                | IOP001-11<br>2. 2. 2. 2 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.          | IOP001-11<br>2. 2. 2. 3 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.            | IOP001-11<br>2. 2. 2. 4 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                     | IOP001-11<br>2. 2. 2. 5 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.                       | IOP001-11<br>2. 2. 2. 6 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK. | IOP001-11<br>2. 2. 3. 1 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.   | IOP001-11<br>2. 2. 3. 2 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.     | IOP001-11<br>2. 2. 3. 3 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.       | IOP001-11<br>2. 2. 3. 4 | N/A                |
| TTR001-11<br>2. 3. 5    | <b>DCK retrieval supported by SwMI</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                | IOP001-11<br>2. 2. 3. 5 | N/A                |





| Nokia SwMI         |  |                      | Motorola<br>MTH800 |
|--------------------|--|----------------------|--------------------|
| TTR001-11<br>2.3.5 | <b>DCK retrieval supported by SwMI</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK.   | IOP001-11<br>2.2.3.6 | N/A                |
| TTR001-11<br>2.3.6 | <b>Security Class 2, Location update</b>   | IOP001-11            |                    |
| TTR001-11<br>2.3.6 | <b>Security Class 2</b> Registration with encryption applied. Authentication not required by SwMI.   | IOP001-11<br>1.1.1   | N/A                |
| TTR001-11<br>2.3.6 | <b>Security Class 2</b> Registration with encryption applied. Authentication required by SwMI.   | IOP001-11<br>1.1.2   | N/A                |
| TTR001-11<br>2.3.6 | <b>Security Class 2</b> Registration without encryption applied. Authentication not required by SwMI.  | IOP001-11<br>1.1.3   | N/A                |
| TTR001-11<br>2.3.6 | <b>Security Class 2</b> Registration without encryption applied. Authentication required by SwMI.  | IOP001-11<br>1.1.4   | N/A                |
| TTR001-11<br>2.3.6 | <b>Security Class 2</b> Undeclared cell re-selection.  | IOP001-11<br>1.2.1   | N/A                |
| TTR001-11<br>2.3.6 | <b>Security Class 2</b> Unannounced cell re-selection.   | IOP001-11<br>1.2.2   | N/A                |
| TTR001-11<br>2.3.7 | <b>Security Class 3, Location update</b>   | IOP001-11            |                    |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied.                                  | IOP001-11<br>2.1.1   | P                  |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Class 3 MS Registration with Class 3 ciphering and optional CCK request, with encryption applied.                            | IOP001-11<br>2.1.2   | N/A                |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.       | IOP001-11<br>2.2.1.1 | -                  |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.         | IOP001-11<br>2.2.1.2 | -                  |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.           | IOP001-11<br>2.2.1.3 | No                 |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.             | IOP001-11<br>2.2.1.4 | P                  |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Undeclared cell re-selection, encrypted location update, using DCK retrieval, including request for CCK.                     | IOP001-11<br>2.2.1.5 | N/A                |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK.                        | IOP001-11<br>2.2.1.6 | N/A                |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.              | IOP001-11<br>2.2.2.1 | -                  |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.                | IOP001-11<br>2.2.2.2 | No                 |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.          | IOP001-11<br>2.2.2.3 | No                 |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.            | IOP001-11<br>2.2.2.4 | P                  |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                     | IOP001-11<br>2.2.2.5 | N/A                |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.                       | IOP001-11<br>2.2.2.6 | N/A                |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK. | IOP001-11<br>2.2.3.1 | -                  |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.   | IOP001-11<br>2.2.3.2 | No                 |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.     | IOP001-11<br>2.2.3.3 | No                 |
| TTR001-11<br>2.3.7 | <b>Security Class 3</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.       | IOP001-11<br>2.2.3.4 | -                  |



| Nokia SwMI           |   |                         | Motorola<br>MTH800 |
|----------------------|---|-------------------------|--------------------|
| TTR001-11<br>2. 3. 7 | <b>Security Class 3</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK.   | IOP001-11<br>2. 2. 3. 5 | N/A                |
| TTR001-11<br>2. 3. 7 | <b>Security Class 3</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK.   | IOP001-11<br>2. 2. 3. 6 | N/A                |
| TTR001-11<br>2. 3. 7 | <b>Security Class 3</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK.   | IOP001-11<br>2. 2. 4. 1 | P                  |
| TTR001-11<br>2. 3. 7 | <b>Security Class 3</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK.  | IOP001-11<br>2. 2. 4. 2 | P                  |
| TTR001-11<br>2. 3. 7 | <b>Security Class 3</b> SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.  | IOP001-11<br>2. 5. 3    | P                  |
| TTR001-11<br>2. 3. 8 | <b>DCK Forwarding using announced type 1 cell re-selection</b>  | IOP001-11               |                    |
| TTR001-11<br>2. 3. 8 | <b>DCK Forwarding using announced type 1 cell re-selection</b> SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.   | IOP001-11<br>2. 5. 3    | No                 |
| TTR001-11<br>2. 3. 9 | <b>DCK Forwarding using announced type 2 cell re-selection</b>  | IOP001-11               |                    |
| TTR001-11<br>2. 3. 9 | <b>DCK Forwarding using announced type 2 cell re-selection</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK.    | IOP001-11<br>2. 2. 4. 1 | P                  |
| TTR001-11<br>2. 3. 9 | <b>DCK Forwarding using announced type 2 cell re-selection</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK. | IOP001-11<br>2. 2. 4. 2 | P                  |
| TTR001-11<br>2. 3. 9 | <b>DCK Forwarding using announced type 2 cell re-selection</b> SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS MS.  | IOP001-11<br>2. 5. 3    | -                  |
| TTR001-11<br>2. 3.10 | <b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b>  | IOP001-11               |                    |
| TTR001-11<br>2. 3.10 | <b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.                                   | IOP001-11<br>2. 2. 1. 3 | No                 |
| TTR001-11<br>2. 3.10 | <b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.                                     | IOP001-11<br>2. 2. 1. 4 | P                  |
| TTR001-11<br>2. 3.10 | <b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.                                  | IOP001-11<br>2. 2. 2. 3 | No                 |
| TTR001-11<br>2. 3.10 | <b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.                                    | IOP001-11<br>2. 2. 2. 4 | P                  |
| TTR001-11<br>2. 3.10 | <b>DCK Forwarding using OTAR PREPARE and OTAR NEWCELL</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.                          | IOP001-11<br>2. 2. 3. 1 | -                  |
| TTR001-11<br>2. 3.10 | <b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.                             | IOP001-11<br>2. 2. 3. 3 | No                 |
| TTR001-11<br>2. 3.10 | <b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.                               | IOP001-11<br>2. 2. 3. 4 | -                  |
| TTR001-11<br>2. 3.10 | <b>DCK forwarding using OTAR PREPARE and OTAR NEW CELL</b> SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.   | IOP001-11<br>2. 5. 3    | -                  |
| TTR001-11<br>2. 3.11 | <b>Change of Security Class or Cipher Key on the serving cell</b>   | IOP001-11               |                    |
| TTR001-11<br>2. 3.11 | <b>Change of Security Class or Cipher Key on the serving cell</b> SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS .   | IOP001-11<br>2. 5. 1    | P                  |



| Nokia SwMI              |   |                         | Motorola<br>MTH800 |
|-------------------------|---|-------------------------|--------------------|
| TTR001-11<br>2. 3.11    | <b>Change of Security Class or Cipher Key on the serving Cell</b><br>SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS. | IOP001-11<br>2. 5. 2    | P                  |
| TTR001-11<br>2. 3.11    | <b>Change of Security Class or Cipher Key on the serving cell</b><br>SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.   | IOP001-11<br>2. 5. 3    | P                  |
| TTR001-11<br>2. 3.11. 4 | <b>D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV)</b><br>SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS.    | IOP001-11<br>2. 5. 1    | P                  |
| TTR001-11<br>2. 3.11. 4 | <b>D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV)</b><br>SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS.    | IOP001-11<br>2. 5. 2    | P                  |
| TTR001-11<br>2. 3.11. 4 | <b>D-CK CHANGE DEMAND (Change of Cipher Key – Absolute IV)</b><br>SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.      | IOP001-11<br>2. 5. 3    | P                  |
| TTR001-11<br>2. 3.11. 5 | <b>D-CK CHANGE DEMAND (Change of Cipher Key – Immediate)</b><br>SwMI initiated change of CCK on the serving cell before group call - Future CCK unknown to MS.      | IOP001-11<br>2. 5. 1    | N/A                |
| TTR001-11<br>2. 3.11. 5 | <b>D-CK CHANGE DEMAND (Change of Cipher Key – Immediate)</b><br>SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS.      | IOP001-11<br>2. 5. 2    | N/A                |
| TTR001-11<br>2. 3.11. 5 | <b>D-CK CHANGE DEMAND (Change of Cipher Key – Immediate)</b><br>SwMI initiated change of CCK on the serving Cell before group call - Future CCK known to MS.        | IOP001-11<br>2. 5. 3    | N/A                |
| TTR001-11<br>2. 3.15. 1 | <b>MS CCK Management</b> SwMI initiated change of CCK on the serving Cell during group call - Future CCK unknown to MS.   | IOP001-11<br>2. 5. 2    | P                  |
| TTR001-11<br>2. 3.16    | <b>Call Related Signalling</b>  | IOP001-11               |                    |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Call from Class 2 MS to Class 2 MS.  | IOP001-11<br>1. 3. 1. 1 | N/A                |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Call from Class 2 MS to Class 1 MS.  | IOP001-11<br>1. 3. 1. 2 | N/A                |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Call from Class 1 MS to Class 2 MS.  | IOP001-11<br>1. 3. 1. 3 | N/A                |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Call from Class 2 MS to Class 2 Group.   | IOP001-11<br>1. 3. 2. 1 | N/A                |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Call from Class 2 MS to Class 1 Group.   | IOP001-11<br>1. 3. 2. 2 | N/A                |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.                    | IOP001-11<br>2. 2. 2. 1 | -                  |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.                      | IOP001-11<br>2. 2. 2. 2 | No                 |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.                | IOP001-11<br>2. 2. 2. 3 | No                 |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.                  | IOP001-11<br>2. 2. 2. 4 | P                  |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                           | IOP001-11<br>2. 2. 2. 5 | N/A                |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.                             | IOP001-11<br>2. 2. 2. 6 | N/A                |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Encrypted individual call from Class 3 MS to Class 3 MS.   | IOP001-11<br>2. 3. 1. 1 | P                  |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Individual call from Class 3 MS to Class 1 MS.   | IOP001-11<br>2. 3. 1. 2 | P                  |



| Nokia SwMI              |  |                         | Motorola<br>MTH800 |
|-------------------------|--|-------------------------|--------------------|
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Individual call from Class 1 MS to Class 3 MS.  | IOP001-11<br>2. 3. 1. 3 | P                  |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Encrypted group call from Class 3 MS to Class 3 Group .   | IOP001-11<br>2. 3. 2. 1 | P                  |
| TTR001-11<br>2. 3.16    | <b>Encryption mode of a call</b> Group call from Class 3 MS to Class 1 Group .   | IOP001-11<br>2. 3. 2. 2 | P                  |
| TTR001-11<br>2. 3.17    | <b>Call Unrelated Signalling</b>   | IOP001-11               |                    |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Call from Class 2 MS to Class 2 MS.   | IOP001-11<br>1. 3. 1. 1 | N/A                |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Call from Class 2 MS to Class 1 MS.   | IOP001-11<br>1. 3. 1. 2 | N/A                |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Call from Class 1 MS to Class 2 MS.   | IOP001-11<br>1. 3. 1. 3 | N/A                |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Call from Class 2 MS to Class 2 Group.  | IOP001-11<br>1. 3. 2. 1 | N/A                |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Call from Class 2 MS to Class 1 Group.  | IOP001-11<br>1. 3. 2. 2 | N/A                |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.     | IOP001-11<br>2. 2. 2. 1 | -                  |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.       | IOP001-11<br>2. 2. 2. 2 | No                 |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK. | IOP001-11<br>2. 2. 2. 3 | No                 |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.   | IOP001-11<br>2. 2. 2. 4 | P                  |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.            | IOP001-11<br>2. 2. 2. 5 | N/A                |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.              | IOP001-11<br>2. 2. 2. 6 | N/A                |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Encrypted individual call from Class 3 MS to Class 3 MS.  | IOP001-11<br>2. 3. 1. 1 | P                  |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Individual call from Class 3 MS to Class 1 MS.  | IOP001-11<br>2. 3. 1. 2 | P                  |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Individual call from Class 1 MS to Class 3 MS.  | IOP001-11<br>2. 3. 1. 3 | P                  |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Encrypted group call from Class 3 MS to Class 3 Group .   | IOP001-11<br>2. 3. 2. 1 | P                  |
| TTR001-11<br>2. 3.17. 1 | <b>Call Related Signalling</b> Group call from Class 3 MS to Class 1 Group.  | IOP001-11<br>2. 3. 2. 2 | P                  |
| TTR001-11<br>2. 3.17. 2 | <b>Call Unrelated Signalling</b> Status from Class 2 MS in Class 1 Group call to idle Class 2 MS.  | IOP001-11<br>1. 4. 1    | N/A                |
| TTR001-11<br>2. 3.17. 2 | <b>Call Unrelated Signalling</b> Status from idle Class 2 MS to Class 2 MS in Class 1 group call.  | IOP001-11<br>1. 4. 2    | N/A                |
| TTR001-11<br>2. 3.17. 2 | <b>Call Unrelated Signalling</b> Status from Class 3 MS in Class 1 Group call to Class 3 MS.   | IOP001-11<br>2. 4. 1    | -                  |
| TTR001-11<br>2. 3.17. 2 | <b>Call Unrelated Signalling</b> Status from Class 3 MS to Class 3 MS in Class 1 Group call.   | IOP001-11<br>2. 4. 2    | P                  |
| TTR001-11<br>2. 3.20    | <b>AI Signalling Protection</b>  | IOP001-11               |                    |
| TTR001-11<br>2. 3.20    | <b>AI Signalling Protection</b> Registration with encryption applied. Authentication not required by SwMI.   | IOP001-11<br>1. 1. 1    | N/A                |



| Nokia SwMI           |  |                         | Motorola<br>MTH800 |
|----------------------|--|-------------------------|--------------------|
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Registration with encryption applied. Authentication required by SwMI.   | IOP001-11<br>1. 1. 2    | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Registration without encryption applied. Authentication not required by SwMI.  | IOP001-11<br>1. 1. 3    | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Registration without encryption applied. Authentication required by SwMI.  | IOP001-11<br>1. 1. 4    | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Undeclared cell re-selection.  | IOP001-11<br>1. 2. 1    | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Unannounced cell re-selection.   | IOP001-11<br>1. 2. 2    | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied.                                  | IOP001-11<br>2. 1. 1    | P                  |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Class 3 MS Registration with Class 3 ciphering and optional CCK request, with encryption applied.                            | IOP001-11<br>2. 1. 2    | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.       | IOP001-11<br>2. 2. 1. 1 | -                  |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.         | IOP001-11<br>2. 2. 1. 2 | -                  |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.           | IOP001-11<br>2. 2. 1. 3 | No                 |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.             | IOP001-11<br>2. 2. 1. 4 | P                  |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Undeclared cell re-selection, encrypted location update using retrieval, including request for CCK.                          | IOP001-11<br>2. 2. 1. 5 | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK.                        | IOP001-11<br>2. 2. 1. 6 | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.              | IOP001-11<br>2. 2. 2. 1 | -                  |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.                | IOP001-11<br>2. 2. 2. 2 | No                 |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.          | IOP001-11<br>2. 2. 2. 3 | No                 |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.            | IOP001-11<br>2. 2. 2. 4 | P                  |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                     | IOP001-11<br>2. 2. 2. 5 | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.                       | IOP001-11<br>2. 2. 2. 6 | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK. | IOP001-11<br>2. 2. 3. 1 | -                  |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.   | IOP001-11<br>2. 2. 3. 2 | No                 |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.     | IOP001-11<br>2. 2. 3. 3 | No                 |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.       | IOP001-11<br>2. 2. 3. 4 | -                  |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                | IOP001-11<br>2. 2. 3. 5 | N/A                |



| Nokia SwMI           |   |                         | Motorola<br>MTH800 |
|----------------------|---|-------------------------|--------------------|
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK .  | IOP001-11<br>2. 2. 3. 6 | N/A                |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK.   | IOP001-11<br>2. 2. 4. 1 | P                  |
| TTR001-11<br>2. 3.20 | <b>AI Signalling Protection</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK.                                      | IOP001-11<br>2. 2. 4. 2 | P                  |
| TTR001-11<br>2. 6    | <b>Signalling Scenarios</b>   | IOP001-11               |                    |
| TTR001-11<br>2. 6. 2 | <b>MS-initiated location updating with SCK ciphering, no SCK request, no authentication</b> Registration with encryption applied. Authentication not required by SwMI.  | IOP001-11<br>1. 1. 1    | N/A                |
| TTR001-11<br>2. 6. 2 | <b>MS-initiated location updating with SCK ciphering, no SCK request, no authentication</b> Registration without encryption applied. Authentication not required by SwMI.   | IOP001-11<br>1. 1. 3    | N/A                |
| TTR001-11<br>2. 6. 3 | <b>MS-initiated location updating with SCK ciphering, and authentication</b> Registration with encryption applied. Authentication required by SwMI.   | IOP001-11<br>1. 1. 2    | N/A                |
| TTR001-11<br>2. 6. 3 | <b>MS-initiated location updating with SCK ciphering, and authentication</b> Registration without encryption applied. Authentication required by SwMI.  | IOP001-11<br>1. 1. 4    | N/A                |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Class 3 MS Registration with Class 3 ciphering and CCK request, without encryption applied.                                  | IOP001-11<br>2. 1. 1    | P                  |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Class 3 MS Registration with Class 3 ciphering and optional CCK request, with encryption applied.                            | IOP001-11<br>2. 1. 2    | N/A                |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.       | IOP001-11<br>2. 2. 1. 1 | -                  |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.           | IOP001-11<br>2. 2. 1. 3 | No                 |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                      | IOP001-11<br>2. 2. 1. 5 | N/A                |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.              | IOP001-11<br>2. 2. 2. 1 | -                  |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.          | IOP001-11<br>2. 2. 2. 3 | N/A                |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                     | IOP001-11<br>2. 2. 2. 5 | N/A                |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK. | IOP001-11<br>2. 2. 3. 1 | -                  |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.     | IOP001-11<br>2. 2. 3. 3 | N/A                |



| Nokia SwMI           |  |                         | Motorola<br>MTH800 |
|----------------------|--|-------------------------|--------------------|
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                                     | IOP001-11<br>2. 2. 3. 5 | N/A                |
| TTR001-11<br>2. 6. 6 | <b>MS-initiated location updating with DCK ciphering, CCK request and authentication</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK.  | IOP001-11<br>2. 2. 4. 2 | N/A                |
| TTR001-11<br>2. 6. 7 | <b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.                          | IOP001-11<br>2. 2. 1. 2 | N/A                |
| TTR001-11<br>2. 6. 7 | <b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.                              | IOP001-11<br>2. 2. 1. 4 | -                  |
| TTR001-11<br>2. 6. 7 | <b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK.   | IOP001-11<br>2. 2. 1. 6 | N/A                |
| TTR001-11<br>2. 6. 7 | <b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.                                 | IOP001-11<br>2. 2. 2. 2 | N/A                |
| TTR001-11<br>2. 6. 7 | <b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.                             | IOP001-11<br>2. 2. 2. 4 | P                  |
| TTR001-11<br>2. 6. 7 | <b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.  | IOP001-11<br>2. 2. 2. 6 | N/A                |
| TTR001-11<br>2. 6. 7 | <b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.                    | IOP001-11<br>2. 2. 3. 2 | N/A                |
| TTR001-11<br>2. 6. 7 | <b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.                        | IOP001-11<br>2. 2. 3. 4 | -                  |
| TTR001-11<br>2. 6. 7 | <b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK.                                   | IOP001-11<br>2. 2. 3. 6 | N/A                |
| TTR001-11<br>2. 6. 7 | <b>MS-initiated location updating with DCK ciphering (no CCK request, no authentication)</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK. | IOP001-11<br>2. 2. 4. 1 | P                  |
| TTR001-11<br>2. 6. 8 | <b>MS-initiated location updating with DCK ciphering and authentication</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.   | IOP001-11<br>2. 2. 1. 2 | -                  |
| TTR001-11<br>2. 6. 8 | <b>MS-initiated location updating with DCK ciphering and authentication</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.   | IOP001-11<br>2. 2. 1. 4 | P                  |
| TTR001-11<br>2. 6. 8 | <b>MS-initiated location updating with DCK ciphering and authentication</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, without request for CCK.  | IOP001-11<br>2. 2. 1. 6 | N/A                |
| TTR001-11<br>2. 6. 8 | <b>MS-initiated location updating with DCK ciphering and authentication</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, without request for CCK.  | IOP001-11<br>2. 2. 2. 2 | No                 |



| Nokia SwMI           |   |                         | Motorola<br>MTH800 |
|----------------------|---|-------------------------|--------------------|
| TTR001-11<br>2. 6. 8 | <b>MS-initiated location updating with DCK ciphering and authentication</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.                             | IOP001-11<br>2. 2. 2. 4 | N/A                |
| TTR001-11<br>2. 6. 8 | <b>MS-initiated location updating with DCK ciphering and authentication</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, without request for CCK.  | IOP001-11<br>2. 2. 2. 6 | N/A                |
| TTR001-11<br>2. 6. 8 | <b>MS-initiated location updating with DCK ciphering and authentication</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, without request for CCK.                    | IOP001-11<br>2. 2. 3. 2 | No                 |
| TTR001-11<br>2. 6. 8 | <b>MS-initiated location updating with DCK ciphering and authentication</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, without request for CCK.                        | IOP001-11<br>2. 2. 3. 4 | N/A                |
| TTR001-11<br>2. 6. 8 | <b>MS-initiated location updating with DCK ciphering and authentication</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, without request for CCK.                                   | IOP001-11<br>2. 2. 3. 6 | N/A                |
| TTR001-11<br>2. 6. 8 | <b>MS-initiated location updating with DCK ciphering and authentication</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, with OTAR of CCK. | IOP001-11<br>2. 2. 4. 1 | N/A                |
| TTR001-11<br>2. 6. 9 | <b>MS-initiated location updating with DCK ciphering and CCK request</b> Undeclared cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.                           | IOP001-11<br>2. 2. 1. 1 | N/A                |
| TTR001-11<br>2. 6. 9 | <b>MS-initiated location updating with DCK ciphering and CCK request</b> Undeclared cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.                               | IOP001-11<br>2. 2. 1. 3 | N/A                |
| TTR001-11<br>2. 6. 9 | <b>MS-initiated location updating with DCK ciphering and CCK request</b> Undeclared cell re-selection, encrypted location update using DCK retrieval, including request for CCK.  | IOP001-11<br>2. 2. 1. 5 | N/A                |
| TTR001-11<br>2. 6. 9 | <b>MS-initiated location updating with DCK ciphering and CCK request</b> Unannounced cell re-selection (without DCK forwarding) with clear location updating, including request for CCK.                                  | IOP001-11<br>2. 2. 2. 1 | N/A                |
| TTR001-11<br>2. 6. 9 | <b>MS-initiated location updating with DCK ciphering and CCK request</b> Unannounced cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.                              | IOP001-11<br>2. 2. 2. 3 | No                 |
| TTR001-11<br>2. 6. 9 | <b>MS-initiated location updating with DCK ciphering and CCK request</b> Unannounced cell re-selection, encrypted location update using DCK retrieval, including request for CCK.   | IOP001-11<br>2. 2. 2. 5 | N/A                |
| TTR001-11<br>2. 6. 9 | <b>MS-initiated location updating with DCK ciphering and CCK request</b> Announced type 3 cell re-selection (without DCK forwarding request) with clear location updating, including request for CCK.                     | IOP001-11<br>2. 2. 3. 1 | N/A                |
| TTR001-11<br>2. 6. 9 | <b>MS-initiated location updating with DCK ciphering and CCK request</b> Announced type 3 cell re-selection with DCK forwarding followed by encrypted location update, including request for CCK.                         | IOP001-11<br>2. 2. 3. 3 | No                 |
| TTR001-11<br>2. 6. 9 | <b>MS-initiated location updating with DCK ciphering and CCK request</b> Announced type 3 cell re-selection, encrypted location update using DCK retrieval, including request for CCK.                                    | IOP001-11<br>2. 2. 3. 5 | N/A                |
| TTR001-11<br>2. 6. 9 | <b>MS-initiated location updating with DCK ciphering and CCK request</b> Announced cell re-selection with Preferred Neighbour Selected and with Call Restoration, Transmitting encrypted group call, without OTAR of CCK. | IOP001-11<br>2. 2. 4. 2 | P                  |
| TTR001-12            | <b>Service Interaction</b>  | IOP001-12               |                    |
| TTR001-12<br>6       | <b>TETRA Service Interaction</b>  | IOP001-12               |                    |
| TTR001-12<br>6. 6    | <b>Recommended signalling when a new service is initiated</b>   | IOP001-12               |                    |
| TTR001-12<br>6. 6. 1 | <b>Call owner initiating another voice call / packet data transfer - MS initiates new group call during individual call</b>   | IOP001-12<br>1. 1. 1    | No                 |





| Nokia SwMI           |   |                      | Motorola<br>MTH800 |
|----------------------|---|----------------------|--------------------|
| TTR001-12<br>6. 6. 1 | <b>Call owner initiating another voice call / packet data transfer</b> - MS initiates packet data transfer during individual call   | IOP001-12<br>1. 1. 2 | No                 |
| TTR001-12<br>6. 6. 2 | <b>Current transmitter (not the call owner) initiating another voice call / packet data transfer</b> - MS initiates new individual call while transmitting to group (not the call owner)  | IOP001-12<br>1. 1. 3 | No                 |
| TTR001-12<br>6. 6. 2 | <b>Current transmitter (not the call owner) initiating another voice call / packet data transfer</b> - MS initiates packet data transfer while transmitting to group (not the call owner) | IOP001-12<br>1. 1. 4 | No                 |
| TTR001-12<br>6. 6. 3 | <b>Current listener (not the call owner) initiating another voice call / packet data transfer</b> - MS initiates new individual call while receiving group call (not the call owner)      | IOP001-12<br>1. 1. 5 | No                 |
| TTR001-12<br>6. 6. 3 | <b>Current listener (not the call owner) initiating another voice call / packet data transfer</b> - MS initiates packet data transfer while receiving group call (not the call owner)     | IOP001-12<br>1. 1. 6 | No                 |
| TTR001-12<br>6. 6. 4 | <b>MS on PDCH initiating individual or group circuit mode call</b> - MS initiates individual call during packet data transfer, MS Capable of setting up circuit mode call on PDCH         | IOP001-12<br>1. 1. 7 | P                  |
| TTR001-12<br>6. 6. 4 | <b>MS on PDCH initiating individual or group circuit mode call</b> - MS initiates individual call during packet data transfer, MS not capable of setting up circuit mode call on PDCH     | IOP001-12<br>1. 1. 8 | No                 |
| TTR001-12<br>6. 6. 4 | <b>MS on PDCH initiating individual or group circuit mode call</b> - MS initiates group call during packet data transfer, MS Capable of setting up circuit mode call on PDCH              | IOP001-12<br>1. 1. 9 | P                  |
| TTR001-12<br>6. 6. 4 | <b>MS on PDCH initiating individual or group circuit mode call</b> - MS initiates group call during packet data transfer, MS not capable of setting up circuit mode call on PDCH          | IOP001-12<br>1. 1.10 | No                 |
| TTR001-12<br>6. 7    | <b>Recommended signalling when a new group call service is accepted</b>   | IOP001-12            |                    |
| TTR001-12<br>6. 7. 1 | <b>Call owner accepting group call</b> - MS Accepts group call during individual call   | IOP001-12<br>1. 2. 1 | N/A                |
| TTR001-12<br>6. 7. 1 | <b>Call owner accepting group call</b> - MS Accepts group call while transmitting to another group (call owner)   | IOP001-12<br>1. 2. 4 | N/A                |
| TTR001-12<br>6. 7. 2 | <b>Current transmitter (not the call owner) accepting group call</b> - MS Accepts group call while transmitting to another group (not the call owner)                                     | IOP001-12<br>1. 2. 2 | No                 |
| TTR001-12<br>6. 7. 3 | <b>Current listener (not the call owner) accepting group call</b> - MS Accepts group call while receiving another group call (not the call owner)   | IOP001-12<br>1. 2. 3 | P                  |
| TTR001-12<br>6. 7. 4 | <b>MS on PDCH accepting group call</b> - MS Accepts group call during packet data transfer  | IOP001-12<br>1. 2. 5 | P                  |
| TTR001-12<br>6. 8    | <b>Recommended signalling when a new individual call service is accepted</b>  | IOP001-12            |                    |
| TTR001-12<br>6. 8. 1 | <b>Call owner accepting individual call</b> - MS Accepts individual call during another individual call   | IOP001-12<br>1. 3. 1 | N/A                |
| TTR001-12<br>6. 8. 1 | <b>Call owner accepting individual call</b> - MS Accepts individual call while transmitting group call (call owner)   | IOP001-12<br>1. 3. 4 | N/A                |
| TTR001-12<br>6. 8. 2 | <b>Current transmitter (not the call owner) accepting individual call</b> - MS Accepts individual call while transmitting to group (not the call owner)                                   | IOP001-12<br>1. 3. 2 | N/A                |
| TTR001-12<br>6. 8. 3 | <b>Current listener (not the call owner) accepting individual call</b> - MS Accepts individual call while receiving group call (not the call owner)                                       | IOP001-12<br>1. 3. 3 | N/A                |
| TTR001-12<br>6. 8. 4 | <b>MS on PDCH accepting individual call</b> - MS Accepts individual call during packet data transfer, MS Capable of setting up circuit mode call on PDCH                                  | IOP001-12<br>1. 3. 5 | P                  |
| TTR001-12<br>6. 8. 4 | <b>MS on PDCH accepting individual call</b> - MS Accepts individual call during packet data transfer, MS not capable of setting up circuit mode call on PDCH                              | IOP001-12<br>1. 3. 6 | No                 |



| Nokia SwMI           |   |                      | Motorola<br>MTH800 |
|----------------------|---|----------------------|--------------------|
| TTR001-12<br>6. 9    | <b>Recommended signalling when a packet data transfer service is accepted</b>   | IOP001-12            |                    |
| TTR001-12<br>6. 9. 1 | <b>Call owner accepting packet data transfer</b> - MS Accepts packet data transfer during individual call   | IOP001-12<br>1. 4. 1 | N/A                |
| TTR001-12<br>6. 9. 1 | <b>Call owner accepting packet data transfer</b> - MS Accepts packet data transfer while transmitting to group (call owner)                                       | IOP001-12<br>1. 4. 4 | N/A                |
| TTR001-12<br>6. 9. 2 | <b>Current transmitter (not the call owner) accepting packet data transfer</b> - MS Accepts packet data transfer while transmitting to group (not the call owner) | IOP001-12<br>1. 4. 2 | N/A                |
| TTR001-12<br>6. 9. 3 | <b>Current listener (not the call owner) accepting packet data transfer</b> - MS Accepts packet data transfer while receiving group call (not the call owner)     | IOP001-12<br>1. 4. 3 | N/A                |

### Comments

- Note Entering fallback the SwMI sends an SDS-TL message instead of the precoded status message.
- Note 1 Authentication test case equivalent to 1.1.1 was performed during AIE test 2.1.1 for class 3 MS  
Authentication test case equivalent to 1.1.3 was performed during AIE tests 2.2.1 to 2.2.4.2 for class 3 MS, whereas the SwMI request MS to authenticate.
- P1 MS intentionally rejects incoming call with automatic U-DISCONNECT at the reception of D-SETUP
- P2 After LA 1 re-configuration MS re-registers sending U-LOCATION UPDATE with "roaming location update" instead of "periodic location updating" element.