



TETRA Interoperability Certificate

Motorola, Dimetra IP, SwMI –
Motorola, MTM5400, Terminal

Copenhagen, January 2011

Table with 4 columns: Latest Certified SwMI SW Release, 7.1, Latest Certified Terminal SW Release, MR10.1.1, Latest Certified SwMI HW Release, 7.1, Latest Certified Terminal HW Release, MT953C

ISCTI (Istituto Superiore delle Comunicazioni e delle Tecnologie dell'Informazione) certifies, that the Motorola, Dimetra IP, SwMI and the Motorola, MTM5400, terminal have been subject to interoperability testing for the "certified" features listed on second page of this certificate, in accordance with the TETRA Interoperability Profiles, TIP compliance Test Plan and related TETRA interoperability requirement tables.

The table lists all the available TETRA interoperability profiles, and summarizes the main functionalities of every profile according to the TETRA interoperability requirement tables.

A feature is "Certified" when it has been successfully tested during the last test session with one of the testing method described in the TETRA process document part 1 (TPD001).

A breakdown into the feature details is given in the Feature Compliance Overview section of this certificate.

Detailed test results and explanation about the procedure used to provide verdicts are listed in the Test Report associated to this Certificate.

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V02



Certified features

Tetra Association TTR001-01:Core	
Registration	Certified
Group Management	Certified
Group call	Certified
Individual call	Certified
Status messages	Certified
Pre-emptive Priority Call	Certified
Emergency Call	Certified
Cell Re-selection	Certified
PSTN interconnect	Certified
MS-ISDN Numbering	-
In Call Signalling	Certified
Subscriber Class Procedures	Certified
Common Secondary Control Channels	Certified
BS Fallback Operation	Partial
Energy Economy Mode	Certified
Transmit Inhibit	Certified
Mixed band operation	Certified
Tetra Association TTR001-02:SDS	
SDS Type 1, 2 or 3	-
SDS-TL	Certified
Store and Forward	Certified
Tetra Association TTR001-03:DGNA	
Support for individually addressed DGNA	Certified
Support for group addressed DGNA	Partial
Tolerance of unsupported DGNA functions	-
Tetra Association TTR001-04:Auth	



SwMI Initiated (non-mutual) Authentication	Certified
SwMI Initiated Authentication made Mutual by MS	Certified
TEI Query	-
Tetra Association TTR001-05:PD	
Context Management	-
Single Slot Packet Data	Certified
Multi Slot Packet Data	-
TEDS	-
Mixed band operation	Certified
Tetra Association TTR001-09:AL	
Ambience Listening	Certified
Interaction with Transmit Inhibit	Certified
Tetra Association TTR001-11:AIE	
Security Class 2 Air Interface Encryption	Certified
Security Class 3 Air Interface Encryption	Certified
Security Class 3G Air Interface Encryption	Certified
Change of CMG and GSKO	Certified
Key Status demand	Certified
Change of Security Class for Fallback operation	Certified
Change of Security Class (other than for Fallback operation)	Certified
Key Management for Secure Direct Mode Operation	Certified
Tetra Association TTR001-12:SI	
MS initiated Service Interaction	Certified
SwMI initiated Service Interaction	Certified
Call Waiting	-
Tetra Association TTR001-13:ED	
Enable and temporary disable of an MS	-
Permanent disable of an MS	Certified
Tetra Association TTR001-17:RUA	
Radio User Assignment	Certified



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Tetra Association TTR001-21: Callout	
Full Callout	Partial
Simple Callout	-
Interaction with other services and events	Certified
Callout Test and Callout Availability	-
Callout Text and Callout Pre-Coded Status	Certified
Storage of Callout Information	Certified



Feature Compliance Overview

The first pages of this certificate provide an indication about the main interoperable TETRA features for each TIP specification (as described in the TIC-RT). The main interoperable TETRA features result depend on a set of sub-feature, the verdicts associated to each sub-feature are directly derived from the analysis of the performed test cases.

The results associated to each feature and sub-feature are shown in the "Feature compliance report" table below. The main features are indicated with grey background and the associated sub-features (or second level features) have white background.

The verdict assigned to a sub-feature as shown on page 2, is derived by the Feature compliance report tables.

Verdict	Definition
Certified	All required tests have been performed and passed
Partial	Not all the required tests have been performed but none have failed
-	Feature cannot be certified e.g. it is not supported by at least one product, no tests were performed, or some tests were performed but at least one failed

The verdict assigned to a sub feature is the result of an analysis of the test case results listed in the Test Report. The verdict assigned to each sub-feature is derived from one or several test case results or test steps result, the TETRA Interoperability requirement tables (TIC-RTs) indicate the link between sub-features and test cases for the certified set of equipment capabilities (see Test Report)

Verdict	Definition
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Passed (note x)	All mandated tests or steps of tests linked to this functionality (as per TIC-RT indication) are compliant with the TIP specification relevant to this feature. A note can be associated to this result, if further clarification on the behaviour of the equipment is needed
Time_limited	Not all Mandated tests (as per TIC-RT indication) have been executed (ran out of time)

The verdict associated to the feature gives also indication about the method used to test that feature. The allowed testing Methods are listed in the table below, a complete description of the procedures and constraints associated to each of them can be found in the "TPD001 TETRA Interoperability Certification Process Description" document.

Testing Method	Description
Complete	All mandated tests associated to the feature have been executed
Spot	Only a selection of the mandatory test cases associated to the feature has been executed during the test session. These tests are a subset of the tests performed on an equivalent software which has been "completely" tested against the same functionality on a different equipment, see manufacturer declaration in annex A
Regression	Only a selection of the mandatory test cases associated to the feature has been executed during the test session. These tests are a subset of the tests performed on a previous version of the same software which has been "completely" tested in a previous test session against the same functionality, see manufacturer definition in annex A
Regression on spot	The regression method has been applied on the verdicts based on the spot testing method



Depending on equipment capabilities declared by the manufacturer, some features or sub features cannot be tested. The following table describes meaning of the used abbreviation

Indication	Definition
Not Supported	The SwMI and/or MS do not support the minimum features required to verify these items.

ISCTI has made every effort to ensure that every result has been correctly evaluated in accordance with the relevant TIPs, Test Plans and TIC-RTs. ISCTI has no liability for the test results, or towards the manufacturers,

The table on the following page lists HW and SW releases of SwMI and Terminal under test in the last four test sessions and the used TIP specifications, Test Plans and TIC-RTs

This Certificate and Certificates from previous test sessions are available on the TETRA Association web site

(<http://www.tetra-association.com/tetramou.aspx?&id=2636>).

The feature results are shown in the tables below



Information on equipment under test and document references

Test Session	Motorola Copenhagen January 2011			
SwMI Type	Dimetra IP			
SwMI HW Release	7.1			
SwMI SW Release	7.1			
Terminal Type	MTM5400			
Terminal HW Release	MT953C			
Terminal SW Release	MR10.1.1			
TIP Specs and TIP Compliance Test Plans				
Core	TTR001-01 v5.1.1 IOP001-01 v2.6.4 TIC-RT001-01 v250			
SDS	TTR001-02 v2.0.1 IOP001-02 v2.0.0 TIC-RT001-02 v211			
DGNA	TTR001-03 v2.0.0 IOP001-03 v2.0.1 TIC-RT001-03 v218			
Auth	TTR001-04 v3.0.0 IOP001-04 v2.0.0 TIC-RT001-04 v222			



PD	TTR001-05 v3.0.0 IOP001-05 v3.0.2 TIC-RT001-05 v300			
AL	TTR001-09 v2.0.0 IOP001-09 v1.1.0 TIC-RT001-09 v121			
AIE	TTR001-11 v3.0.0 IOP001-11 v3.0.0 TIC-RT001-11 v3018			
SI	TTR001-12 v1.0.0 IOP001-12 v1.0.0 TIC-RT001-12 v125			
ED	TTR001-13 v2.0.0 IOP001-13 v1.0.0 TIC-RT001-13 v143			
RUA	TTR001-17 v1.0.1 IOP001-17 v1.0.0 TIC-RT001-17 v105			
Callout	TTR001-21 v1.0.0 IOP001-21 v1.0.0 TIC-RT001-21 v101			



Feature compliance report

Test Session	Motorola Copenhagen January 2011			
Core				
Registration	PASSED Complete 3_pass_of_3			
ITSI attach	PASSED Complete 1_pass_of_1			
SwMI initiated location updating	PASSED Complete 1_pass_of_1			
LA timer based Periodic location updating	Not Supported			
De-registration	PASSED Complete 1_pass_of_1			
Group Management	PASSED Complete 9_pass_of_9			
Single group attachment	PASSED Complete 4_pass_of_4			
Multiple group attachment	PASSED Complete 3_pass_of_3			



MS initiated group detachment	PASSED Complete 2_pass_of_2			
SwMI initiated group management	Not Supported			
Group call	PASSED Complete 9_pass_of_9			
Normal group call	PASSED Complete 3_pass_of_3			
Late entry	PASSED Complete 1_pass_of_1			
Priority Group scanning	PASSED Complete 3_pass_of_3			
Call setup modifications	PASSED Complete 1_pass_of_1			
Resource Queuing based on Call Priority	PASSED Complete 1_pass_of_1			
Broadcast Call	Not Supported			
Limited coverage notification	Not Supported			
Individual call	PASSED Complete 7_pass_of_7			
Simplex individual call	PASSED Complete 3_pass_of_3			
Duplex individual call	PASSED Complete 2_pass_of_2			
Call setup modifications	Not Supported			



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Resource Queuing based on Call Priority	PASSED Complete 2_pass_of_2			
Indication of imminent call disconnection	Not Supported			
Status messages	PASSED Complete 1_pass_of_1			
Individual addressed Status transfer	Not Supported			
Group addressed Status transfer	PASSED Complete 1_pass_of_1			
Pre-emptive Priority Call	PASSED Complete 1_pass_of_1			
Pre-emption of Resources	PASSED Complete 1_pass_of_1			
Pre-emption of Busy Users	Not Supported			
Emergency Call	PASSED Complete 2_pass_of_2			
Pre-emption of Resources	PASSED Complete 1_pass_of_1			
Pre-emption of Busy Users	PASSED Complete 1_pass_of_1			
Call setup modifications	Not Supported			
Call disconnection by non-call owner	Not Supported			



Cell Re-selection	PASSED Complete 16_pass_of_16			
Undeclared	PASSED Complete 1_pass_of_1			
Unannounced	PASSED Complete 7_pass_of_7			
Announced - with Call Restoration	PASSED Complete 8_pass_of_8			
Announced - without Call Restoration	Not Supported			
Expedited	Not Supported			
PSTN interconnect	PASSED Complete 4_pass_of_4			
TETRA Originated Call	PASSED Complete 2_pass_of_2			
PSTN Originated Call	PASSED Complete 1_pass_of_1			
DTMF over-dial	PASSED Complete 1_pass_of_1			
Emergency Telephone Calls	Not Supported			
MS-ISDN Numbering				
MS ISDN - Voice Call	Not Supported			
MS-ISDN Status	Not Supported			
In Call Signalling	PASSED Complete 5_pass_of_5			



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Slow Signalling on Traffic Channel (SACCH)	PASSED Complete 4_pass_of_4			
Fast Signalling on Traffic Channel (FACCH)	PASSED Complete 1_pass_of_1			
Subscriber Class Procedures	PASSED Complete 4_pass_of_4			
Cell Selection based on Subscriber Class	PASSED Complete 1_pass_of_1			
Subscriber Class Delivery during Location Update	Not Supported			
Use of Preferred Subscriber Classes	PASSED Complete 3_pass_of_3			
Common Secondary Control Channels	PASSED Complete 7_pass_of_7			
One C-SCCH per cell	PASSED Complete 4_pass_of_4			
Two C-SCCH per cell	PASSED Complete 3_pass_of_3			
Three C-SCCH per cell	PASSED Complete 2_pass_of_2			
BS Fallback Operation	PASSED No_Equipment 8_pass_of_12			
Switch to/from BS Fallback Operation	PASSED Complete 2_pass_of_2			



Roaming with BS Fallback Operation	PASSED No_Equipment 2_pass_of_6			
Services with BS Fallback Operation	PASSED Complete 4_pass_of_4			
Energy Economy Mode	PASSED Complete 3_pass_of_3			
Energy Economy Mode Operation	PASSED Complete 3_pass_of_3			
Transmit Inhibit	PASSED Complete 5_pass_of_5			
TXI Activation & De-Activation without Status message	PASSED Complete 1_pass_of_1			
TXI Activation & De-Activation with Status message	PASSED Complete 3_pass_of_3			
Receipt of group addressed service during TXI	PASSED Complete 1_pass_of_1			
Mixed band operation	PASSED Complete 4_pass_of_4			
Mixed band operation, inter-cell	PASSED Complete 4_pass_of_4			
Mixed band operation, intra-cell	PASSED Complete 3_pass_of_3			



Mixed band operation, Full	PASSED Complete 4_pass_of_4			
Short Data Service (SDS)				
SDS Type 1, 2 or 3				
SDS Type 1	Not Supported			
SDS Type 2	Not Supported			
SDS Type 3	Not Supported			
SDS-TL	PASSED Complete 8_pass_of_8			
Individually Addressed	PASSED Complete 2_pass_of_2			
Group Addressed	PASSED Complete 2_pass_of_2			
Using MS-ISDN dialling	Not Supported			
Using UCS2 coding scheme	PASSED Complete 3_pass_of_3			
Using 7-bit coding scheme	PASSED Complete 1_pass_of_1			
Store and Forward	PASSED Complete 3_pass_of_3			
Individually Addressed	PASSED Complete 3_pass_of_3			
Group Addressed	Not Supported			



Dynamic Group Number Assignment (DGNA)				
Support for individually addressed DGNA	PASSED Complete 6_pass_of_6			
Support for individually addressed DGNA assignment without attachment	PASSED Complete 4_pass_of_4			
Support for individually addressed DGNA assignment with attachment as selected group	Not Supported			
Support for individually addressed DGNA assignment with attachment as scanned group	Not Supported			
Support for individually addressed DGNA assignment with rejected attachment	Not Supported			
Support for individually addressed assignment for pre-programmed group	PASSED Complete 4_pass_of_4			
Support for group addressed DGNA	Time_Limited 3_pass_of_6			
Support for group addressed DGNA assignment	Time_Limited 1_pass_of_3			
Management of 'group assignment lifetime'	Time_Limited 1_pass_of_2			
Support for group addressed DGNA deassignment	PASSED Complete 1_pass_of_1			
Tolerance of unsupported DGNA functions				
MS tolerance of unsupported individual addressed DGNA signalling	Not Supported			



MS tolerance of unsupported group addressed DGNA signalling	Not Supported			
Authentication				
SwMI Initiated (non-mutual) Authentication	PASSED Complete 3_pass_of_3			
Attach with authentication	PASSED Complete 1_pass_of_1			
Roaming with authentication	PASSED Complete 1_pass_of_1			
SwMI rejects MS during authentication	PASSED Complete 1_pass_of_1			
MS rejects SwMI during authentication	Not Supported			
SwMI Initiated Authentication made Mutual by MS	PASSED Complete 2_pass_of_2			
Attach with authentication	PASSED Complete 1_pass_of_1			
Roaming with authentication	PASSED Complete 1_pass_of_1			
TEI Query				
TEI Query Operation	Not Supported			
TETRA Packet Data				
Context Management	FAILED Complete 9_pass_of_11			
Context Activation	FAILED Complete 5_pass_of_7			



User authentication	PASSED Complete 4_pass_of_4			
Single Slot Packet Data	PASSED Complete 10_pass_of_10			
Data Transfer	PASSED Complete 7_pass_of_7			
Cell re-selection	PASSED Complete 3_pass_of_3			
Multi Slot Packet Data	FAILED Time_Limited 2_pass_of_4			
Data Transfer	FAILED Time_Limited 2_pass_of_4			
TEDS				
TEDS with Context Activation	Not Supported			
TEDS Data Transmission	Not Supported			
TEDS Cell Reselection	Not Supported			
Mixed band operation	PASSED Complete 2_pass_of_2			
Mixed band operation, inter-cell	PASSED Complete 2_pass_of_2			
Mixed band operation, intra-cell	PASSED Complete 2_pass_of_2			
Mixed band operation, Full	PASSED Complete 2_pass_of_2			



TETRA Ambience Listening (SS-AL)				
Ambience Listening	PASSED Complete 5_pass_of_5			
SS-AL Call Setup	PASSED Complete 2_pass_of_2			
MS initiated SS-AL disconnection	PASSED Complete 3_pass_of_3			
No Indication to affected user	PASSED Complete 5_pass_of_5			
Interaction with Transmit Inhibit	PASSED Complete 1_pass_of_1			
AL can override TxI	Not Supported			
AL cannot override TxI	PASSED Complete 1_pass_of_1			
Air Interface Encryption				
Security Class 2 Air Interface Encryption	PASSED Complete 18_pass_of_18			
Location Updating and AI Signalling Protection	PASSED Complete 7_pass_of_7			
TM-SCK provisioning during location updating	PASSED Complete 2_pass_of_2			
Communications between parties using encryption	PASSED Complete 2_pass_of_2			



Communications between clear and encrypted parties	PASSED Complete 3_pass_of_3			
Communications between encrypted parties on a channel designated to operate in clear	PASSED Complete 2_pass_of_2			
OTAR and Change of TM-SCK	PASSED Complete 4_pass_of_4			
Security Class 3 Air Interface Encryption	PASSED Complete 19_pass_of_19			
Location Updating and AI Signalling Protection	PASSED Complete 9_pass_of_9			
DCK Forwarding at MS request	Not Supported			
DCK Forwarding by SwMI (without MS request)	PASSED Complete 1_pass_of_1			
DCK Retrieval	PASSED Complete 4_pass_of_4			
CCK provisioning during location updating	PASSED Complete 4_pass_of_4			
Communications between parties using encryption	PASSED Complete 2_pass_of_2			
Communications between clear and encrypted parties	PASSED Complete 3_pass_of_3			
Communications between encrypted parties on a channel designated to operate in clear	PASSED Complete 2_pass_of_2			



OTAR and Change of CCK	PASSED Complete 4_pass_of_4			
Security Class 3G Air Interface Encryption	PASSED Complete 9_pass_of_9			
GCK Key Association setting	PASSED Complete 3_pass_of_3			
Communications between parties using encryption	PASSED Complete 2_pass_of_2			
Communications between clear and encrypted parties	PASSED Complete 1_pass_of_1			
OTAR and Change of GCK	PASSED Complete 3_pass_of_3			
Change of CMG and GSKO	PASSED Complete 5_pass_of_5			
OTAR and change of CMG and GSKO	PASSED Complete 5_pass_of_5			
Key Status demand	PASSED Complete 4_pass_of_4			
SCK Key Status demand	PASSED Complete 2_pass_of_2			
GCK Key Status demand	PASSED Complete 1_pass_of_1			



GSKO Key Status demand	PASSED Complete 1_pass_of_1			
Change of Security Class for Fallback operation	PASSED Complete 12_pass_of_12			
Seamless change to Security Class 2 for BS Fallback operation	PASSED Complete 10_pass_of_10			
Non-seamless change to Security Class 2 for BS Fallback operation	Not Supported			
Provisioning of TM-SCK for fallback to Security Class 2 operation	PASSED Complete 2_pass_of_2			
Change to Security Class 1 for BS Fallback operation	Not Supported			
Change of Security Class (other than for Fallback operation)	PASSED Complete 5_pass_of_5			
Change between Security Class 3 and Security Class 3G	PASSED Complete 2_pass_of_2			
Change between Security Class 2 and Security Class 3	PASSED Complete 2_pass_of_2			
Change from Security Class 3G to Security Class 2	PASSED Complete 1_pass_of_1			
Key Management for Secure Direct Mode Operation	PASSED Complete 3_pass_of_3			
OTAR and change of DM-SCK	PASSED Complete 3_pass_of_3			



Service Interaction				
MS initiated Service Interaction	PASSED Complete 3_pass_of_3			
MS initiated Circuit Mode Call during another Circuit Mode Call	PASSED Complete 1_pass_of_1			
MS initiated Circuit Mode Call during Packet Mode Transfer	PASSED Complete 2_pass_of_2			
MS initiated Packet Mode Transfer during Circuit Mode Call	Not Supported			
SwMI initiated Service Interaction	PASSED Complete 6_pass_of_6			
SwMI initiated Circuit Mode Call during another Circuit Mode Call	PASSED Complete 4_pass_of_4			
SwMI initiated Circuit Mode Call during Packet Mode Transfer	PASSED Complete 2_pass_of_2			
SwMI initiated Packet Mode Transfer during Circuit Mode Call	Not Supported			
Call Waiting				
Call Waiting in Individual Call	Not Supported			
Call Waiting in Group Call	Not Supported			
Enable Disable				
Enable and temporary disable of an MS	FAILED Complete 7_pass_of_8			
Enable and temporary disable of an MS without authentication	PASSED Complete 2_pass_of_2			
Enable and temporary disable of an MS with authentication	Not Supported			



Registration of a temporary disabled MS	PASSED Complete 2_pass_of_2			
Rejection of applicable invalid enable/disable requests	PASSED Complete 3_pass_of_3			
Removable SIMs do not affect the subscriber or equipment that has been enabled/disabled	Not Supported			
Disabling of an MS during a call or while on the PDCH	FAILED Complete 0_pass_of_1			
Permanent disable of an MS	PASSED Complete 2_pass_of_2			
Permanent disable of an MS with authentication	PASSED Complete 1_pass_of_1			
Permanently Disabled MS cannot send air interface signalling	PASSED Complete 1_pass_of_1			
RUA				
Radio User Assignment	PASSED Complete 14_pass_of_14			
Radio User Assignment at Location Updating	PASSED Complete 6_pass_of_6			
Dispatcher initiated Radio User Assignment	PASSED Complete 2_pass_of_2			
Radio User Dis-assignment	PASSED Complete 6_pass_of_6			



Callout				
Full Callout	Time_Limited 14_pass_of_16			
Individually Addressed Full Callout with request for Terminal Receipt message and with request for User Receipt message	PASSED Complete 2_pass_of_2			
Group Addressed Full Callout without request for Terminal Receipt message and without request for User Receipt message	Time_Limited 1_pass_of_2			
Using current selected group during Full Callout	Time_Limited 0_pass_of_1			
Full Callout with immediate change to Callout Group	PASSED Complete 2_pass_of_2			
Full Callout with change to Callout Group on non-rejecting user response	PASSED Complete 1_pass_of_1			
Full Callout with rejecting User Receipt message	PASSED Complete 1_pass_of_1			
Full Callout with timeout for User Receipt message	PASSED Complete 1_pass_of_1			
Callout Incident Information messages	PASSED Complete 2_pass_of_2			
Group Call to Callout Group	PASSED Complete 4_pass_of_4			
End of Full Callout	Time_Limited 3_pass_of_4			
Simple Callout				
Individually Addressed Callout with request for Terminal Receipt message and with request for User Receipt message	Not Supported			
Individually Addressed Callout with request for Terminal Receipt message and without request for User Receipt message	Not Supported			
Group Addressed Callout without request for Terminal Receipt message and without request for User Receipt message	Not Supported			
Group Addressed Callout without request for Terminal Receipt message and with request for User Receipt message	Not Supported			



Simple Callout with rejecting User Receipt message	Not Supported			
Simple Callout with timeout for User Receipt message	Not Supported			
Interaction with other services and events	PASSED Complete 23_pass_of_23			
Interaction with previous Callout	PASSED Complete 2_pass_of_2			
Interaction with emergency call	PASSED Complete 3_pass_of_3			
Interaction with non-emergency call	PASSED Complete 7_pass_of_7			
Interaction with data and status	PASSED Complete 11_pass_of_11			
Interaction with local services	Not Supported			
Manual exit	PASSED Complete 1_pass_of_1			
Callout Test and Callout Availability				
Callout Test	Not Supported			
Callout Availability	Not Supported			
Callout Text and Callout Pre-Coded Status	PASSED Complete 7_pass_of_7			
Callout Text	PASSED Complete 4_pass_of_4			
Concatenated Callout Text	PASSED Complete 3_pass_of_3			
Callout Pre-Coded Status	Not Supported			
Storage of Callout Information	PASSED Complete 2_pass_of_2			
Viewing Callout information from previous Callout(s)	PASSED Complete 1_pass_of_1			
Deletion of Callout information from previous Callout(s)	PASSED Complete 1_pass_of_1			



Annex A

List of Revisions of the Certificate

Date	Ver.	Modification
24 June 2011	1	First published version
5 July 2011	2	updating: - editorial changes regarding the name of the terminal - addition of the Callout feature

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