



Network Connection Certificate

The following equipment has been tested for connection to the Airwave network (the "Equipment"). The Equipment has been tested on the Airwave Reference System Rugby.

	Manufacturer	Equipment Versions	Test Date	Certificate Date
Equipment Hardware	Thales	PRM5202A (Portable Terminal)	13/12/2010	19/01/2011
Equipment Software	Thales	V10.1.41	13/12/2010	19/01/2011

At the time the Equipment was tested the Airwave Network Reference System was configured as follows:

Airwave Network Software Version	D7.1.1 / D6.2
Airwave Radio Test Spec. Version	Version 3.1 (Includes OTAR)

	Mandatory Tests	Optional Tests	Drive Test	Additional Tests (See Notes)
Test Results	Concession Pass	Concession Pass	N/A	N/A

The testing conducted on the Equipment suggests that it will not adversely impact the Airwave Network (as it had been configured in accordance with the above specifications).

Disclaimer:

1. This conformance certificate does not indicate any security approval with respects to the operation of this hardware / software on the Airwave network.

It is the responsibility of the supplier and their customer (whether Airwave Ltd or 3rd party customer) to ensure the Airwave Accreditor's security requirements have been met before this hardware / software is deployed on the Airwave operational network. If this solution is deployed within the customer's security domain then the customers Accreditor / Senior officer responsible for security must give their approval inline with the Airwave Service Code of Connection.

2. The issuing of this Connection Certificate is for information purposes only and Airwave makes no warranty or guarantee whatsoever as to the fitness for purpose of the Equipment or its ability to operate correctly when connected to the Airwave Network or any other network or equipment. Your use of the Equipment, connection of the Equipment to the Airwave Network and reliance on the contents of this Connection Certificate (for whatever purpose) is at your sole risk. Airwave shall not be liable for loss or damages of any kind (whether due to negligence or otherwise) arising in relation to the Equipment, its connection to the Airwave Network and/or your reliance on the content of this Connection Certificate.
3. This Conformance Certificate does not guarantee support of Airwave eTETRA operation.

Issued by: Rugby Reference Centre.

Para	Test Description	Result
5.1	Security	
5.1.1	Scan for network followed by successful registration	Pass
5.1.2	De-Registration	Pass
5.1.4.1	Successful Authentication With Class 2 Encryption	Pass
5.1.4.2	Un-successful Authentication With Class 2 Encryption	Pass
5.1.4.3	Successful Authentication & Mutual Authentication (Class 2)	Pass
5.1.5	Authenticated Registration With Class 3 Encryption Enabled	Pass
5.1.8.1	End To End Encryption Successful Call	Pass
5.1.8.2	End To End Settings Incorrect or not possible in Monitoring Radio	Pass
5.1.8.3	End To End - Non E2E Call Attempted by Radio Terminal T whilst E2E call active	Pass
5.1.10.1	Temporary Subscriber Disable - Static Disable	Pass
5.1.10.2	Temporary Subscriber Disable - Static Enable	Pass
5.1.10.4	Temporary Subscriber Disable - Handover To New EBTS In Disabled State	Pass
5.1.12.1	Basic Ambient Call	Pass
5.1.12.2	Radio terminal in ambient call ignores normal group call	Pass
5.1.12.3	Radio terminal in ambient call initiates normal group call	Pass
5.1.12.4	Radio terminal in ambient call initiates EM group call	Pass
5.1.12.5	Radio terminal in ambient call initiates private call	Pass
5.1.12.6	Radio terminal in ambient call initiates Telephony call	Pass
5.1.13	Radio Check	Pass
5.2	Basic Call Handling	
5.2.1.2	Normal Priority Group Call	Pass
5.2.2	Incoming Private Individual Call	Pass
5.2.3	Outgoing Private Individual Call	Pass
5.2.4	Outgoing Telephony Call	Pass
5.2.5	Incoming Telephony Call	Pass
5.2.6	Status Call From Radio Terminal To Attached Group	Pass
5.3	General Mobility	
5.3.1.2	Sampling & Measurement Of Serving & Neighbour Cells (ENB)	Pass
5.3.4	Announced Type 3 Handover In Normal Group Call	Pass
5.4	Special Mobility - Subscriber Class	
5.4.1.1	Subscriber Class (Normal) Invalid SC at ADJ "HP" & "P" EBTS	Pass
5.4.2.1	Subscriber Class (Preferred) Invalid SC at ADJ "HP" & "N" EBTS	Pass
5.4.4.1	Subscriber Class (Highly Preferred) Standard EBTS Available	N/A
5.6	Power Control	
5.6.1.1	Open loop Power Control 390MHz Band	Not Tested
5.6.1.2	Open loop Power Control 420MHz Band	Not Tested
5.7	Local Site Trunking & Fallback Tests	
5.7.1.1	Single dominant EBTS system In Class 2 Encryption	Pass
5.8	Short Data (SDS)	
B1.1	Message "T" from SDS Host to Radio Terminal T with received but not consumed flag	Pass
B1.2	Message "T" from Radio Terminal T to SDS Host with received but not consumed flag	Pass
6.1	Group Functionality	
6.1.2	DGNA	Pass
6.1.3	Patch & Re-Group	Pass
6.1.4	Multiselect & Re-group	Pass
6.4	Packet Data	

B1.1	Activation of Packet Data Context	N/A
B1.2	De-Activation of Packet Data Context	N/A
B2	Basic Packet Data Transfer using Single Slot Packet Data	N/A
B5.1	Packet Data transfer interrupted by Radio Terminal T initiating a Group Call	N/A
S2.1	Security	
S2.1.1.1	Successful System Authentication Security Class 2	Pass
S2.1.1.2	Un-successful System Authentication With Class 2 Encryption	Pass
S2.1.1.3	Successful System Authentication With Class 2 Encryption including Mutual Authentication	Pass
S2.1.1.4	Authenticated Registration With Class 3 Encryption Enabled	Pass
S2.1.2	Announced Cell Reselection With Call restoration – Security class 2	Pass
S2.1.3	Change of Class of Encryption	Pass
S2.2	Fallback Operation	
S2.2.1	BS entering Fallback Mode and returning to normal mode	Pass
S2.2.2	Change to Security Class 2 for radio terminal registered on BS	Pass
S2.2.3	BS enters Fallback mode while operating in Security Class 3G	Pass
S2.2.4	Change to Security Class 2 in Fallback mode from Security Class 3G	Pass
S2.2.5	Radio Terminal registration on site at Security Class 3 fallback and reversion to Wide site trunking	Pass
S2.3	Subscriber disable, Temporary and permanent	
S2.3.1	Static Disable	Pass
S2.3.2	Static Enable	Pass
S2.3.3	Registration When Disabled	Pass
S2.3.4	Handover To New EBTS In Disabled State	Pass
S2.3.5	Static Disable Followed By Loss & Restoration Of Power	Pass
S2.3.6	Permanent Subscriber Disable (Kill)	Pass
S2.4	Key associations for Group Cipher Keys	
S2.4.1	Key association setting for GCK during location updating with group attachment.	Pass
S2.4.2	Key association at Terminal initiated group attachment	Pass
S2.4.3	Key association by using DGNA	Pass
S2.5	Call Related Testing	
S2.5.1	Encrypted group call using Security Class 3G Terminal to a Security Class 3 Group	Pass
S2.6	OTAR and Change of GCK	
S2.6.1	SwMI Initiated change of GCK on Serving Cell when Radio terminal is in idle state	Pass
S2.6.2	SwMI Initiated change of GCK on Serving Cell when Radio terminal is in active call	Pass
S2.6.3	SwMI requested GCK Key status from Radio Terminal	Pass
S2.7	OTAR and Change of SCK	
S2.7.1	SwMI initiated change of TM-SCK – Terminal in idle state	Pass
S2.7.2	SwMI Initiated change of TM-SCK – Radio Terminal is in an active call	Pass
S2.7.3	Location updating to a cell using Past TM-SCK	Pass
S2.7.4	SwMI initiated OTAR of TM-SCK – Terminal in idle state	Pass
S2.7.5	SwMI Initiated OTAR of TM-SCK – Radio Terminal is in an active call	Pass
S2.8	OTAR and change of DM-SCK	
S2.8.1	SwMI initiated OTAR of and change of DM-SCK	Pass
S2.9	Change of Security Class in Trunked mode of operation	
S2.9.1	Change Security Class – 3G to 3	Pass
S2.9.2	Change Security Class – 3 to 3G	Pass
S2.9.3	Change Security Class – 3G to 2	Pass
S2.9.4	Change Security Class – 3 to 2	Pass
S2.9.5	Change Security Class – 2 to 3	Pass