DMR Association Interoperability Certificate

Certificate Number: 10067

This DMR Association Interoperability Certificate documents that the Radio Activity product as detailed in Table A below:

TABLE A : DMR EQUIPMENT TESTED		
Manufacturer	Radio Activity srl	
Model	KA-450	
Firmware	ID	Version
	NA	BS: 1.6.C.6, DSP: 4.67, TSC: 1.1.1.0

has successfully passed the DMR Association Tier 3 mandatory and optional interoperability tests outlined in the DMR Association test specification documents: *Interoperability Testing for DMR Tier 3 Systems V 3.2 of July 2018* carried out on 24th – 26th of May 2021 with the JVCKENWOOD product referenced in Table B below with tests undertaken as indicated in the following pages.
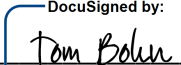
TABLE B : DMR EQUIPMENT TESTED		
Manufacturer	JVCKENWOOD	
Model	NX3300	
Firmware	ID	Version
	NA	K.3.31

The DMR Association hereby declares that the product in Table A when tested with the product in Table B passed interoperability Test Cases as set out in the feature summary below.

The DMR Association hereby declares that the testing took place according to the procedures and in a laboratory meeting the criteria set out in the DMR Association document*: Interoperability Laboratory Recognition Process and Test Session Procedures*, *V 2.06, September 2021.*

Issue Date: 29/11/2021

Digitally Signed by Chair of the DMR Association Technical Working Group

DocuSigned by:

Tom Bolin

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NOTE:

All products belonging to the same model classes, meaning equipment that Radio Activity srl and JVCKENWOOD have determined, through engineering analysis or internal functional testing, to be functionally equivalent to the products in Table A and Table B, may be declared interoperable by Radio Activity srl and JVCKENWOOD.

LIABILITY DISCLAIMER

The DMR Association declares that the IOP validation process has been carried out with the best possible endeavors in order to ensure the most reliable verdicts. Nevertheless, the DMR Association takes no responsibility for, and shall have no liability as a verdict of damages, losses, or injuries of any kind that may be caused by non-coherence to the functions listed in the certificates of products that are awarded a DMR Interoperability Certificate.

Individual manufacturers are responsible for ensuring that the behaviour of any equipment for which Interoperability is claimed is identical to that of the equipment that passed the DMR Association interoperability certification process.

See below for feature summary

ETSI STANDARD SUPPORTED

ETSI Standard Supported	TS 102 361-4 V1.9.2

FEATURE SUMMARY

Mandatory Features

Feature	Result
Registration	Pass
Single Site Talkgroup Voice Service	Pass
Single Site Individual Voice Service	Pass
Hunting	Pass
Single Site Short Data Messaging	Pass

Optional Features

Feature	Result
Multisite Talkgroup Voice Service	Pass
Multisite Individual Voice Service	Pass
Multisite Short Data Messaging	Pass

MANDATORY FEATURE DETAILED SUMMARY

Registration	
Registration Accepted	Pass
Registration Not Accepted	(See Note 1)
MS Refused	Pass
MS Denied	Not Tested
De-registration	Pass
Single Site Talkgroup Voice Service	
Message Trunking	(See Note 2)
Call Granted	Pass
Call Refused	Pass
Call Queued	Pass
Broadcast Call	Pass
Transmission Trunking	(See Note 2)
Call Granted	Pass
Call Refused	Pass
Call Queued	Pass
Single Site Individual Voice Service	
Single Frequency OACSU Call	
Call Granted and ended by calling party	Pass
Call Granted and ended by called party	Pass
OACSU Call	
Call Granted	Pass
Call Refused	Pass
Call Queued	Pass
FOACSU Call	
Call Accepted	Pass
Call Refused by user	Pass
Hunting	
Site Change	Pass
Single Site Short Data Messaging	
Individual Message	Pass
NOTES Note 1: Only one of 'MS Refused' or 'MS Denied' is required Note 2: Only one of 'Message Trunking' or 'Transmission Trunking' is required	

OPTIONAL FEATURE DETAILED SUMMARY

Multisite Talkgroup Voice Service	
Message Trunking	(See Note 1)
Call Granted	Pass
Call Queued, origin site busy	Pass
Call Queued, destination site busy	(See Note 2)
All Start	Pass
Fast Start	Not Tested
Broadcast Call	Pass
Transmission Trunking	(See Note 1)
Call Granted	Pass
Call Queued, origin site busy	Pass
Call Queued, destination site busy	(See Note 2)
All Start	Pass
Fast Start	Not Tested
Multisite Individual Voice Service	
OACSU Call	
Call Granted	Pass
Call Queued	Pass
FOACSU Call	
Call Accepted	Pass
Call Refused by user	Pass
Multisite Short Data Messaging	
Individual Message	Pass
NOTES	
Note 1: Only one of 'Message Trunking' or 'Transmission Trunking' is required	
Note 2: Only one of 'All Start' or 'Fast Start' is required	