



# DMR Association Interoperability Certificate

**Certificate Number:** 10073

This DMR Association Interoperability Certificate documents that the DAMM Cellular Systems A/S product as detailed in Table A below:

TABLE A : DMR EQUIPMENT TESTED		
<b>Manufacturer</b>	DAMM Cellular Systems A/S	
<b>Model</b>	BS422 (Tetraflex)	
<b>Firmware</b>	<b>ID</b>	<b>Version</b>
	NA	NC (Ver.8.13 2022-01-17)

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 5<sup>th</sup> – 6<sup>th</sup> of April 2022 with the Aselsan A.S. product referenced in Table B below with tests undertaken as indicated in the following pages.

TABLE B : DMR EQUIPMENT TESTED		
<b>Manufacturer</b>	Aselsan A.S.	
<b>Model</b>	3700	
<b>Firmware</b>	<b>ID</b>	<b>Version</b>
	NA	1.03.3018

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 2.07 of February 2022*.

**Issue Date:** 18/11/2022

Digitally Signed by Chair of the DMR Association Technical Working Group

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**NOTE:**

All products belonging to the same model classes, meaning equipment that DAMM Cellular Systems A/S and Aselsan A.S. 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 DAMM Cellular Systems A/S and Aselsan A.S.

**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**

<b>ETSI Standard Supported</b>	TS 102 361-4 V1.11.1
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**FEATURE SUMMARY****Mandatory Features**

<b>Feature</b>	<b>Result</b>
Registration	Pass
Single Site Talkgroup Voice Service	Pass
Single Site Individual Voice Service	Pass
Hunting	Pass
Single Site Short Data Messaging	Pass

**Optional Features**

<b>Feature</b>	<b>Result</b>
Multisite Talkgroup Voice Service	Pass
Multisite Individual Voice Service	Pass
Multisite Short Data Messaging	Pass

**MANDATORY FEATURE DETAILED SUMMARY**

<b>Registration</b>	
Registration Accepted	Pass
Registration Not Accepted	(See Note 1)
MS Refused	Pass
MS Denied	Pass
De-registration	Pass
<b>Single Site Talkgroup Voice Service</b>	
Message Trunking	(See Note 2)
Call Granted	Pass
Call Refused	Pass
Call Queued	Pass
Broadcast Call	Pass
Transmission Trunking	(See Note 2)
Call Granted	Not Tested
Call Refused	Not Tested
Call Queued	Not Tested
<b>Single Site Individual Voice Service</b>	
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
<b>Hunting</b>	
Site Change	Pass
<b>Single Site Short Data Messaging</b>	
Individual Message	Pass
<b>NOTES</b>	
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**

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