

Project 25 Compliance Assessment Program
SDOC - VESTA Solutions Communications Corp. - Airbus VESTA
March 7, 2020

BASE STATION REPEATER PRODUCT INFORMATION

Base Station Repeater Info	Detail
Model Name:	Airbus VESTA
Tested Software Versions:	P25 V3.02-E14.20
Hardware Capabilities/Options & Software Options:	700 MHz Band, 800 MHz Band, P25 Trunking, P25 TDMA Trunking, AES-256 Encryption

Test case results and updated software versions for this model can be found in the Summary Test Report identified below.

TEST REQUIREMENTS CAB IDENTIFICATION

This product was tested according to the P25 CAP Test Requirements Compliance Assessment Bulletin (CAB) indicated by the checked box.

check one	P25 CAP Test Requirement CAB	Details
<input checked="" type="checkbox"/>	P25-CAB-CAI_TEST_REQ – July 2017	Includes August 2016 P25 CAP Test Requirements; Adds TDMA performance and interoperability testing and trunked supplementary data testing
	P25-CAB-CAI_TEST_REQ – October 2018	Includes all July 2017 P25 CAP Test Requirements; Adds minor updates to conventional interoperability testing due to TIA standard update

SUMMARY TEST REPORT IDENTIFIER¹

Summary Test Report (STR) Identifier:	STR - VESTA Solutions Communications Corp - BASE STATION REPEATER
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CONTACT INFORMATION

Company Info	Details
Company Name:	VESTA Solutions Communications Corp.
Company Website URL:	https://www.vestapublicsafety.com/
P25 CAP Contact Name:	Mr. Don Matheson
P25 CAP Contact Phone:	+1.819.931.2110
P25 CAP Contact Email:	<a href="mailto:Don.Matheson<don.matheson@motorolasolutions.com>">Don Matheson <don.matheson@motorolasolutions.com>

¹ The Summary Test Report for this product is available upon request. Please send your STR request to P25CAP@hq.dhs.gov and include the base station repeater 'Motorola Solutions'.

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TRUNKING PERFORMANCE - FDMA

The Base Station Repeater product has been tested for Trunking Performance - FDMA. All requirements were passed except for those requirements identified below under Unsupported or Failed Requirements.

P25 CAP FDMA Trunking Performance Testing Coverage

Receiver Tests: Reference Sensitivity C4FM, Faded Reference Sensitivity C4FM, Adjacent Channel Rejection C4FM, Offset Adjacent Channel Rejection C4FM, Co-Channel Rejection, Spurious Response Rejection, Intermodulation Rejection, and Signal Displacement Bandwidth.

Transmitter Tests: Unwanted Emissions (Adjacent Channel Power Ratio), Transmitter Throughput Delay, Frequency Deviation for C4FM High-Level Signal Deviation, Frequency Deviation for C4FM Low-Level Signal Deviation, and Modulation Fidelity C4FM, Transient Frequency Behavior T1, Transient Frequency Behavior T2, Transient Frequency Behavior T3.

Trunked Tests: Time to Grant Non-simulcast Limits, Time to Grant Simulcast Limits

Unsupported or Failed Requirements

1. Unsupported or Failed: None.

TRUNKING PERFORMANCE - TDMA

The Base Station Repeater product has been tested for Trunking Performance - TDMA. All requirements were passed except for those requirements identified below under Unsupported or Failed Requirements.

P25 CAP TDMA Trunking Performance Testing Coverage

Receiver Tests: Reference Sensitivity H-CPM, Faded Reference Sensitivity H-CPM, Adjacent Channel Rejection H-CPM, Offset Adjacent Channel Rejection H-CPM, Co-Channel Rejection, Spurious Response Rejection, Intermodulation Rejection, and Signal Displacement Bandwidth.

Transmitter Tests: Unwanted Emissions (Adjacent Channel Power Ratio), Modulation Fidelity, and Symbol Rate Accuracy.

Unsupported or Failed Requirements

1. Unsupported or Failed: None.

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TRUNKED BASE STATION REPEATER INTEROPERABILITY – FDMA

The Base Station Repeater product has been tested for Trunked Interoperability - FDMA. All test cases were passed except for those test cases identified below under Unsupported or Failed Test Cases. Test cases that passed but require specific, sometimes optional, product capabilities are also identified below.

P25 CAP FDMA Trunked Interoperability Testing Coverage

Full Registration, Group Voice Call, Unit to Unit Voice Call, Broadcast Voice Call, Affiliation, Announcement Group Call, Emergency Alarm, Emergency Group Call, Encryption, Intra-Location Registration Area Roaming, Deregistration, System Call, Call Alert, Short Message, Status Query, Status Update, Radio Unit Monitoring, Radio Unit Disable/Re-Enable, and Radio Check.

Unsupported or Failed Test Cases

1. Unsupported: Unverified Registration, Unit-to-Unit Call Queued with TAC – Traffic Channel Assignment before TAC, Unit-to-Unit Call without TAC, Unit-to-Unit Call Queued without TAC, Short Message, Status Query, Status Update, RUM Individual Silent, RUM Group Non-silent, RUM Group Silent, and Radio Check Successful.
2. Failed: None.

Optional Product Capabilities Required to Pass Test Cases

1. None

TRUNKED BASE STATION REPEATER INTEROPERABILITY – TDMA

The Base Station Repeater product has been tested for Trunked Interoperability - TDMA. All test cases were passed except for those test cases identified below under Unsupported or Failed Test Cases. Test cases that passed but require specific, sometimes optional, product capabilities are also identified below.

P25 CAP TDMA Trunked Interoperability Testing Coverage

Registration, Group Voice Call, Unit-to-Unit Voice Call, Broadcast Call, Announcement Group Call, Emergency Group Call, Encryption Group Call, System Call, Radio Unit Monitoring, and Transmitting Subscriber Forced Preemption.

1. Unit-to-Unit Call Queued with TAC – Traffic Channel Assignment before TAC, Unit-to-Unit Call without TAC, Unit-to-Unit Call Queued without TAC, RUM Individual Non-silent, RUM Individual Silent, RUM Group Non-silent, RUM Group Silent, and Radio Check Successful.
2. Failed: None.

Optional Product Capabilities Required to Pass Test Cases

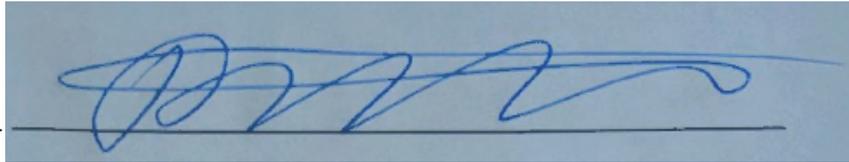
2. None

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SIGNATURE AND DATE

Aug 7, 2020

Date Signed



Vendor's Authorized Representative Signature

DON MATHESON

Vendor's Authorized Representative Printed Name

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