

**Project 25 Compliance Assessment Program**

SUPPLIER'S DECLARATION OF COMPLIANCE (SDOC)

AIRBUS DS COMMUNICATIONS VESTA RADIO TB5500I SERIES FIXED BASE STATION/REPEATER

SDOC-AIRBUS\_DSC-TB5500i\_Repeater-08082017

**Airbus DS Communications**

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**PRODUCT**

Product Info	Detail
<b>Product Name:</b>	Airbus DS Communications (Airbus DSC) VESTA Radio Infrastructure TB5500i Series Fixed Base Station/Repeater  (See table, Model Class: Airbus DS Communications VESTA Radio Infrastructure for a listing of compliance equivalent model-family products.)
<b>Installed Hardware Options:</b>	TBCB1A; 136-174 MHz, 50 Watt Power Amplifier TBCB1B; 136-174 MHz, 100 Watt Power Amplifier TBCK4B; 762-870 MHz, 100W Power Amplifier
<b>Installed Software Options:</b>	VESTA Radio Infrastructure Trunking, Trunking Control Channel, Trunking Traffic Channel, Conventional
<b>Installed Vocoder:</b>	Baseline with system improvements

**MODEL CLASS DEFINITIONS – DEVICE UNDER TEST**

**Model Class: Airbus DS Communications VESTA Radio Infrastructure**

Model Class	Sub-Class	Installed Options
TB5500i Base Station/Repeater	TBCB1A (136-174 MHz 50W)	See Sub-Class for TBCB1A
TB5500i Base Station/Repeater	TBCB1B (136-174 MHz 100W)	See Sub-Class for TBCB1B
TB5500i Base Station/Repeater	TBCK4B (762-870 MHz 100W)	See Sub-Class for TBCK4B

**Model Sub-Class: Airbus DSC TB5500i Fixed Base Station/Repeater, TBCB1A (136-174 MHz 50W)**

Product Name, Definition, Firmware	Installed Options
Reciter Model T01-01103-DAAA, SN 18184259, Hardware 00.11, Firmware P25-1.25.00.0006	Options: Trunking, Trunking Control Channel, Conventional
Reciter Model T01-01103-DAAA, SN 18176602, Hardware 00.11, Firmware P25-1.16.01.0001	Options: Trunking, Trunking Traffic Channel

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<b>Product Name, Definition, Firmware</b>	<b>Installed Options</b>
Power Amplifier 50 W Model T01-01121-DAAA, SN 18185223, Hardware 0006, Firmware 1.05.00.0001	Options: Trunking, Trunking Control Channel, Conventional, 50 Watts
Power Amplifier 100 W Model T01-01121-DAAA, SN 18176464, Hardware 0006, Firmware 1.04.00.0001	Options: Trunking, Trunking Traffic Channel
Power Management Unit Model TBA30A0-0100, SN 18184732, Hardware 00.03, Firmware 0316	Options: Trunking, Trunking Control Channel, Conventional
Power Management Unit Model TBA30A0-0100, SN 18176545, Hardware 00.03, Firmware 0315	Options: Trunking, Trunking Traffic Channel
VESTA Radio Software V11_06 (V2.05)	Options: Trunking, Trunking Control Channel, Trunking Traffic Channel, Conventional
VESTA Radio Software V11_07 (V2.06)	Options: Trunking, Trunking Control Channel, Trunking Traffic Channel, Conventional
VESTA Radio Software V11_08 (V2.07)	Options: Trunking, Trunking Control Channel, Trunking Traffic Channel, Conventional

**Model Sub-Class: Airbus DSC TB5500i Fixed Base Station/Repeater, TBCB1B (136-174 MHz 100W)**

<b>Product Name, Definition, Firmware</b>	<b>Installed Options</b>
Reciter Model T01-01103-DAAA, SN 18184260, Hardware 00.11, Firmware P25-1.21.00.0005	Options: Trunking, Trunking Control Channel, Conventional
Reciter Model T01-01103-DAAA, SN 18176602, Hardware 00.11, Firmware P25-1.16.01.0001	Options: Trunking, Trunking Traffic Channel
Power Amplifier 100 W Model T01-01121-DBAA, SN 18184281, Hardware 0006, Firmware 1.04.00.0001	Options: Trunking, Trunking Control Channel, Conventional, 100 Watts
Power Amplifier 100 W Model T01-01121-DBAA, SN 18176464, Hardware 0006, Firmware 1.04.00.0001	Options: Trunking, Trunking Traffic Channel
Power Management Unit Model TBA30A0-0100, SN 18184727, Hardware 00.03, Firmware 0314	Options: Trunking, Trunking Control Channel, Conventional
Power Management Unit Model TBA30A0-0100, SN 18176545, Hardware 00.03, Firmware 0315	Options: Trunking, Trunking Traffic Channel
VESTA Radio Software V11_06 (V2.05)	Options: Trunking, Trunking Control Channel, Trunking Traffic Channel, Conventional
VESTA Radio Software V11_07 (V2.06)	Options: Trunking, Trunking Control Channel, Trunking Traffic Channel, Conventional

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<b>Product Name, Definition, Firmware</b>	<b>Installed Options</b>
VESTA Radio Software V11_08 (V2.07)	Options: Trunking, Trunking Control Channel, Trunking Traffic Channel, Conventional

### **Model Sub-Class: Airbus DSC TB5500i Fixed Base Station/Repeater, TBCK4B (700, 800 MHz 100W)**

<b>Product Name, Definition, Firmware</b>	<b>Installed Options</b>
Reciter Model T01-01103-DAAA, SN 18184260, Hardware 00.11, Firmware P25-1.21.00.0005	Options: Trunking, Trunking Control Channel, Conventional
Reciter Model T01-01103-DAAA, SN 18176602, Hardware 00.11, Firmware P25-1.16.01.0001	Options: Trunking, Trunking Traffic Channel
Power Amplifier 100 W Model T01-01121-DBAA, SN 18184281, Hardware 0006, Firmware 1.04.00.0001	Options: Trunking, Trunking Control Channel, Conventional, 100 Watts
Power Amplifier 100 W Model T01-01121-DBAA, SN 18176464, Hardware 0006, Firmware 1.04.00.0001	Options: Trunking, Trunking Traffic Channel
Power Management Unit Model TBA30A0-0100, SN 18184727, Hardware 00.03, Firmware 0314	Options: Trunking, Trunking Control Channel, Conventional
Power Management Unit Model TBA30A0-0100, SN 18176545, Hardware 00.03, Firmware 0315	Options: Trunking, Trunking Traffic Channel
VESTA Radio Software V11_06 (V2.05)	Options: Trunking, Trunking Control Channel, Trunking Traffic Channel, Conventional
VESTA Radio Software V11_07 (V2.06)	Options: Trunking, Trunking Control Channel, Trunking Traffic Channel, Conventional
VESTA Radio Software V11_08 (V2.07)	Options: Trunking, Trunking Control Channel, Trunking Traffic Channel, Conventional

### **OTHER DEVICES TESTED FOR INTEROPERABILITY**

Other devices tested with Airbus DS Communications VESTA Radio Infrastructure.

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Supplier and Contact	Product Name, Definition, Unique ID	Installed Hardware Options	Installed Software Options
Harris Corp. , RF Communications Tim Garrett – (434) 445-9564	TP7300 Portable	Rev. B	XGP R01A
Kenwood USA Corporation Don Wingo – (678) 474-4719	P25 TK-5410D Portable	3	G5.23.00
Relm Wireless Corporation Jim Holthaus – (402) 990-1551	KNG Series (P800) Portable	1.0	5.0.0

### COMPLIANCE DECLARATION

Airbus DS Communications (ADSC) hereby declares that VESTA RADIO TB5500I SERIES BASE STATION/REPEATER product(s) pass(es) the test cases listed in the following Project 25 Compliance Assessment Bulletin sections in their entirety **with test case exclusions** and **test case exclusions in other devices tested** as noted:

P25-CAB-CAI\_TEST\_REQ – AUGUST 2016, Section 2.2.1.1 – Project 25 Phase 1 Common Air Interface Conventional Base Station/Repeater Performance when tested with the products identified in STR–AIRBUS\_DSC–TB5500I\_Repeater–07172017. Test cases 3.1.17 (late entry unsquelch delay), 3.1.18 (receiver throughput delay), and 3.2.14 (transmitter throughput delay) for analog performance are not tested as the ADSC repeater does not provide an analog audio receiver output. Test case 3.2.16 (modulation fidelity for CQPSK) is not supported.

P25-CAB-CAI\_TEST\_REQ – AUGUST 2016, Section 2.2.1.2 – Project 25 Phase 1 Common Air Interface Trunked Base Station/Repeater Performance when tested with the products identified in STR–AIRBUS\_DSC–TB5500I\_Repeater–07172017. Test case 3.2.14 (transmitter throughput delay) for analog performance was not tested as the ADSC repeater does not provide an analog audio receiver output.

P25-CAB-CAI\_TEST\_REQ – AUGUST 2016, Section 2.2.3.1 – Project 25 Phase 1 Common Air Interface Conventional Base Station/Repeater Interoperability when tested with the products identified in STR–AIRBUS\_DSC–TB5500I\_Repeater–07172017. Unsupported - These tests were not performed.

P25-CAB-CAI\_TEST\_REQ – AUGUST 2016, Section 2.2.3.2 – Project 25 Phase 1 Common Air Interface Trunked Base Station/Repeater Interoperability for a SYSTEM CONFIGURED AS HOME SYSTEM TO SUs UNDER TEST when tested with the products identified in STR–AIRBUS\_DSC–TB5500I\_Repeater–07172017. Test case 2.2.3.4.4 (unit-to-unit call queued with target availability check – traffic channel assignment after target availability check) is not applicable to Airbus DS Communications VESTA Radio

Infrastructure as ADSC infrastructure always checks for traffic channel availability (see result of test case 2.2.3.4.4). Test cases 2.2.3.4.5 (unit-to-unit call without target availability check) and 2.2.3.4.6 (unit-to-unit call queued without target availability check) are not supported by ADSC VESTA Radio Infrastructure (further due to ADSC infrastructure always checking for traffic channel availability).

P25-CAB-CAI\_TEST\_REQ – AUGUST 2016, Section 2.2.3.2 – Project 25 Phase 1 Common Air Interface Trunked Base Station/Repeater Interoperability when THE SYSTEM SERVING SITE IS CONFIGURED FOR INTER-SYSTEM ROAMING TO THE SUs when tested with the products identified in STR–AIRBUS\_DSC–TB5500I\_Repeater–07172017. Unsupported - These tests were not performed.

P25-CAB-CAI\_TEST\_REQ – AUGUST 2016, Section 2.2.3.2 – Project 25 Phase 1 Common Air Interface Trunked Base Station/Repeater Interoperability when THE SYSTEM SERVING SITE CONFIGURED FOR INTER-WACN ROAMING TO THE SUs when tested with the products identified in STR–AIRBUS\_DSC–TB5500I\_Repeater–07172017. Unsupported - These tests were not performed.

### **SUMMARY TEST REPORT IDENTIFICATION**

The summary test report performed at DHS-Recognized Laboratory(s) P25CAP081015 and P25CAP081016 is identified as follows:

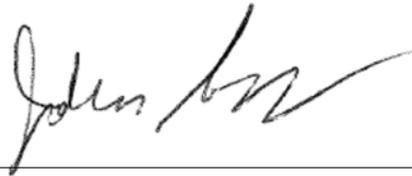
STR–AIRBUS\_DSC–TB5500I\_Repeater–08082017 issued on August 18, 2017

### **ISSUE DATE AND SIGNATURE**

8<sup>th</sup> August, 2017

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*Issue Date*



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*Supplier's Authorized Representative Signature*

8<sup>th</sup> August, 2017

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*Issue Date*

John Szpak – General Manager

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*Supplier's Authorized Representative Printed Name*

### **DISCLAIMER**

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**BURDEN STATEMENT**

**OMB NO:** 6040-0015

**EXPIRATION DATE:** 6/30/2019

An agency may not conduct or sponsor information collection and a person is not required to respond to this information collection unless it displays a current valid Office of Management and Budget control number and expiration date. The control number for this collection is 6040-0015 and this form will expire on 06/30/2019. The estimated average time to complete this form is 60 minutes per respondent.

If you have any comments regarding the burden estimate, you can write to the U.S. Department of Homeland Security, Science and Technology Directorate, Washington, D.C. 20528.

DHS FORM 10044 – June 2009