

**Project 25 Compliance Assessment Program**  
**SDOC - [VENDOR\_NAME] - [BASE STATION REPEATER\_MODEL\_NAME]**  
**Month, Day, Year [Date submitted or resubmitted to P25 CAP]**

**BASE STATION REPEATER PRODUCT INFORMATION**

<b>Base Station Repeater Info</b>	<b>Detail</b>
Model Name:	[Model Name]
Tested Software Versions:	[XX.A]
Hardware Capabilities/Options & Software Options:	[Examples: Frequency Bands, P25 Conventional, 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.

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

**SUMMARY TEST REPORT IDENTIFIER<sup>1</sup>**

Summary Test Report (STR) Identifier:	[STR Identifier is found in Vendor’s Base Station Repeater STR, General Info tab, row seven]
---------------------------------------	--

**CONTACT INFORMATION**

<b>Company Info</b>	<b>Details</b>
Company Name:	
Company Website URL:	
P25 CAP Contact Name:	
P25 CAP Contact Phone:	
P25 CAP Contact Email:	

<sup>1</sup> The Summary Test Report for this product is available upon request. Please send your STR request to [P25CAP@hq.dhs.gov](mailto:P25CAP@hq.dhs.gov) and include the base station repeater ‘Vendor Name’.

**Project 25 Compliance Assessment Program**  
**SDOC - [VENDOR\_NAME] - [BASE STATION REPEATER\_MODEL\_NAME]**  
**Month, Day, Year** [Date submitted or resubmitted to P25 CAP]

**CONVENTIONAL PERFORMANCE**

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

P25 CAP Conventional Performance Testing Coverage

Receiver Tests: Reference Sensitivity, Faded Reference Sensitivity, Adjacent Channel Rejection, Offset Adjacent Channel Rejection, Co-Channel Rejection, Spurious Response Rejection, Intermodulation Rejection, Signal Displacement Bandwidth, Late Entry Unsquench Delay, and Receiver Throughput Delay.

Transmitter Tests: Unwanted Emissions (Adjacent Channel Power Ratio), Transmitter Throughput Delay, Frequency Deviation for C4FM, and Modulation Fidelity, Transient Frequency Behavior.

Unsupported or Failed Requirements

1. [Example: None]
2. [Add as many notes as needed]

**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, Faded Reference Sensitivity, Adjacent Channel Rejection, Offset Adjacent Channel Rejection, 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, and Modulation Fidelity, Transient Frequency Behavior.

Trunked Tests: Time to Grant

Unsupported or Failed Requirements

1. [Example: 37.5 ms trunking control channel slot times unsupported]
2. [Add as many notes as needed]

**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, Faded Reference Sensitivity, Adjacent Channel Rejection, Offset Adjacent Channel Rejection, Co-Channel Rejection, Spurious Response Rejection, Intermodulation Rejection, and Signal Displacement Bandwidth.

**Project 25 Compliance Assessment Program**  
**SDOC - [VENDOR\_NAME] - [BASE STATION REPEATER\_MODEL\_NAME]**  
**Month, Day, Year [Date submitted or resubmitted to P25 CAP]**

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

Unsupported or Failed Requirements

1. [Example: TDMA capability not supported]
2. [Add as many notes as needed]

**CONVENTIONAL REPEAT MODE INTEROPERABILITY**

The Base Station Repeater product has been tested for Conventional Repeat Mode Interoperability. All test cases were passed except for those 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 Repeat Mode Interoperability Testing Coverage

Network Access Code (NAC) Operation, Group Voice Call, Emergency Call, Unit-to-Unit Voice Call, Encryption, Call Alert, Radio Check, Message Update, Status Update, Status Query, and Radio Unit Monitor.

Unsupported or Failed Test Cases

1. [Example: Call Alert, Radio Check, Message Update, Status Update, Status Query, Radio Unit Monitor are unsupported]
2. [Add as many notes as needed]

Optional Product Capabilities Required to Pass Test Cases

1. [Example: None]
2. [Add as many notes as needed]

**CONVENTIONAL REPEAT MODE with DISPATCH MONITORING CONSOLE INTEROPERABILITY**

The Base Station Repeater product has been tested for Conventional Repeat Mode with Dispatch Monitoring Console Interoperability. 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 Repeat Mode Interoperability Testing Coverage

Group Voice Call, Emergency Call, All Call, Unit-to-Unit Voice Call, Encryption, Emergency Alarm, Call Alert, Radio Check, Radio Unit Inhibit/Uninhibit, Message Update, Status Update, Status Query, and Radio Unit Monitor.

Unsupported or Failed Test Cases

1. [Example: Call Alert, Radio Check, Message Update, Status Update, Status Query, Radio Unit Monitor are unsupported]
2. [Add as many notes as needed]

**Project 25 Compliance Assessment Program**  
**SDOC - [VENDOR\_NAME] - [BASE STATION REPEATER\_MODEL\_NAME]**  
**Month, Day, Year [Date submitted or resubmitted to P25 CAP]**

Optional Product Capabilities Required to Pass Test Cases

1. [Example: None]
2. [Add as many notes as needed]

**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. [Example: Call Alert, Radio Check, Short Message, Status Update, Status Query, Radio Unit Monitor are unsupported]
2. [Add as many notes as needed]

Optional Product Capabilities Required to Pass Test Cases

1. [Example: None]
2. [Add as many notes as needed]

**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.

Unsupported or Failed Test Cases

1. [Example: Radio Unit Monitoring is unsupported]
2. [Add as many notes as needed]

Optional Product Capabilities Required to Pass Test Cases

1. [Example: None]
2. [Add as many notes as needed]

**Project 25 Compliance Assessment Program**  
**SDOC - [VENDOR\_NAME] - [BASE STATION REPEATER\_MODEL\_NAME]**  
**Month, Day, Year [Date submitted or resubmitted to P25 CAP]**

**SIGNATURE AND DATE**

---

Date Signed	Vendor's Authorized Representative <u>Signature</u>
-------------	---

---

Vendor's Authorized Representative Printed Name

**DISCLAIMER**

The information contained herein has been provided by the supplier of the product with permission to make the information publicly available. The U.S. Department of Homeland Security (DHS) Science and Technology Directorate (S&T) is making this information available as a public service; however, DHS S&T IS PROVIDING THE INFORMATION "AS IS." DHS S&T MAKES NO EXPRESS OR IMPLIED WARRANTIES AND SPECIFICALLY, DHS S&T MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE ACCURACY OR USE OF THIS INFORMATION. Reference to any specific commercial products, processes or services by trade name, trademark, supplier, or otherwise does not constitute an endorsement by or a recommendation from DHS S&T.