

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

Base Station Repeater Info	Detail
Model Name:	[Model Name]
Tested Software Versions: ¹	[XX.A]
Hardware Capabilities/Options & Software Options:	[Examples: Frequency Bands, P25 Conventional, P25 Trunking, P25 TDMA Trunking, AES-256 Encryption]

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 type="checkbox"/>	P25-CAB-CAI_TEST_REQ – August 2016²	Adds conventional interoperability testing to the March 2010 P25 CAP Test Requirements
<input type="checkbox"/>	P25-CAB-CAI_TEST_REQ – July 2017³	Includes August 2016 P25 CAP Test Requirements; Adds TDMA performance and interoperability testing and trunked supplementary data testing

SUMMARY TEST REPORT IDENTIFIER⁴

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

Company Info	Details
Company Name:	
Company Website URL:	
P25 CAP Contact Name:	
P25 CAP Contact Phone:	
P25 CAP Contact Email:	

¹ Current and previous software versions are listed in the ‘Models & Software’ worksheet tab of the Summary Test Report (STR).

² The following version of the 2016 CAB was used for testing [Insert the filename of the Test Requirements CAB document that was used for testing, including the version information].

³ The following version of the 2017 CAB was used for testing [Insert the filename of the Test Requirements CAB document that was used for testing, including the version information].

⁴ 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 ‘Vendor Name’.

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

(only applicable for the 2017 CAB)

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.

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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.

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.

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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]

TRUNKED BASE STATION REPEATER INTEROPERABILITY - FDMA

(Baseline features are tested as part of the 2016 CAB. Additional features are tested as part of the 2017 CAB.)

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.

2016 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.

2017 P25 CAP FDMA Trunked Interoperability Testing Coverage

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

(only applicable for the 2017 CAB)

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.

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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]

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SIGNATURE AND DATE

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

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BURDEN STATEMENT

OMB NO: 6040-0015 (additional questions are pending OMB approval)

EXPIRATION DATE: 6/30/2019 (additional questions are pending OMB approval)

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 (additional questions are pending OMB approval). 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