Project 25 Compliance Assessment Program
P25-CAB-CAI_TEST_REQ – July 2017
Summarized SDOC BASE STATION REPEATER_MODEL_NAME
Month, Day, Year

CONTACT INFORMATION

Company Info	Details
Company Name:	
Company Website URL:	
P25 CAP Contact Name:	Xxxx Wwwww
P25 CAP Contact Phone:	XXX-XXX-XXXX
P25 CAP Contact Email:	name@company.com

BASE STATION REPEATER PRODUCT INFORMATION

Base Station Repeater Info	Detail
Base Station Repeater Product:	Model Name
Tested Software Version:	XX.A
Tested Hardware Options:	*Example: Conventional Base Station Repeater*
Tested Software Options:	*Examples: P25 Conventional, P25 Trunking, P25 TDMA Trunking, AES-256 Encryption*

BASE STATION REPEATER SUMMARY TEST REPORT

Summary Test Report Identification:[1]	*Enter Base Station Repeater STR identifier*

This product has been tested according to *Baseline Common Air Interface Testing Requirements July 2017*[2] (P25-CAB-CAI_TEST_REQ).

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[1] The Summary Test Report is available upon request. Please send your request to P25CAP@hq.dhs.gov and include the **'Base Station Repeater Product / Model Name'** and the **'Summary Test Report Identification'** in the email.

[2] The *Baseline Common Air Interface Testing Requirements July 2017* CAB can be downloaded from https://www.dhs.gov/publication/p25-cap-testing-documents

CONVENTIONAL PERFORMANCE

The Base Station Repeater product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI_TEST_REQ – July 2017,* Section 2.2.1.1 - Conventional Base Station/Repeater Performance. All specified test cases were passed with the exception of any unsupported, excepted or failed test cases identified below.

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

Passed Except for the Following Unsupported, Excepted or Failed Test Cases
1. Example *[Exception - The mean frequency difference during transmitter turn-on and transmitter turn-off may be greater than ±12.5 kHz]*
2.
3.

TRUNKING PERFORMANCE - FDMA

The Base Station Repeater product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI_TEST_REQ – July 2017,* Section 2.2.1.2-Trunked Base Station/Repeater Performance – FDMA (Phase 1). All specified test cases were passed with the exception of any unsupported, excepted or failed test cases identified below.

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.
Trunked Tests: Time to Grant

Passed Except for the Following Unsupported, Excepted or Failed Test Cases
1. Example *[37.5 ms trunking control channel slot times unsupported]*
2.
3.

TRUNKING PERFORMANCE - TDMA

The Base Station Repeater product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI_TEST_REQ – July 2017*, Section 2.2.1.3-Trunked Base Station/Repeater Performance – TDMA (Phase 2). All specified test cases were passed with the exception of any unsupported, excepted or failed test cases identified below.

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.

Passed Except for the Following Unsupported, Excepted or Failed Test Cases
1. Example *[TDMA capability not supported]*
2.
3.

CONVENTIONAL REPEAT MODE INTEROPERABILITY

The Base Station Repeater product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI_TEST_REQ – July 2017,* Section 2.2.3.1-Conventional Base Station/Repeater Interoperability – Repeat Mode. All specified test cases were passed with the exception of any unsupported, excepted or failed test cases identified below. Test cases that passed but require specific, sometimes optional, 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.

Passed Except for the Following Unsupported, Excepted or Failed Test Cases
1. Example *[Call Alert, Radio Check, Message Update, Status Update, Status Query, Radio Unit Monitor are unsupported]*
2.

Optional Capabilities Required to Pass Test Cases
1.
2.

CONVENTIONAL REPEAT MODE with DISPATCH MONITORING CONSOLE INTEROPERABILITY

The Base Station Repeater product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI_TEST_REQ – July 2017,* Section 2.2.3.2-Conventional Base Station/Repeater Interoperability – FNE Dispatch Monitoring Console - Repeat Mode. All specified test cases were passed with the exception of any unsupported, excepted or failed test cases identified below. Test cases that passed but require specific, sometimes optional, 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.

Passed Except for the Following Unsupported, Excepted or Failed Test Cases
1. Example *[Call Alert, Radio Check, Message Update, Status Update, Status Query, Radio Unit Monitor are unsupported]*
2.

Optional Capabilities Required to Pass Test Cases
1.
2.

TRUNKED BASE STATION REPEATER INTEROPERABILITY – FDMA (Phase 1)

The Base Station Repeater product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI_TEST_REQ – July 2017,* Section 2.2.3.3-Trunked Base Station/Repeater Interoperability – FDMA (Phase 1). All specified test cases were passed with the exception of any unsupported, excepted or failed test cases identified below. Test cases that passed but require specific, sometimes optional, 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.

Passed Except for the Following Unsupported, Excepted or Failed Test Cases
1. Example *[Call Alert, Radio Check, Message Update, Status Update, Status Query, Radio Unit Monitor are unsupported]*
2.

Optional Capabilities Required to Pass Test Cases
1.
2.

TRUNKED BASE STATION REPEATER INTEROPERABILITY – TDMA (Phase 2)

The Base Station Repeater product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI_TEST_REQ – July 2017,* Section 2.2.3.4-Trunked Base Station/Repeater Interoperability – TDMA (Phase 2). All specified test cases were passed with the exception of any unsupported, excepted or failed test cases identified below. Test cases that passed but require specific, sometimes optional, 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, Encryption Group Call, System Call, Radio Unit Monitoring, and Transmitting Base Station Repeater Forced Preemption.

Passed Except for the Following Unsupported, Excepted or Failed Test Cases
1. Example *[Radio Unit Monitor is unsupported]*
2.

Optional Capabilities Required to Pass Test Cases
1.
2.

ISSUE DATE AND SIGNATURE

_____   _____
          Issue Date   Supplier's Authorized Representative Signature

_____
Supplier'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.

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