

**Project 25 Compliance Assessment Program  
P25-CAB-CAI\_TEST\_REQ – July 2017  
Summarized SDOC SUBSCRIBER\_MODEL\_NAME  
Month, Day, Year**

**CONTACT INFORMATION**

<b>Company Info</b>	<b>Details</b>
Company Name:	
Company Website URL:	
P25 CAP Contact Name:	Xxxx Wwww
P25 CAP Contact Phone:	XXX-XXX-XXXX
P25 CAP Contact Email:	name@company.com

**SUBSCRIBER PRODUCT INFORMATION**

<b>Subscriber Info</b>	<b>Detail</b>
Subscriber Product:	Model Name
Tested Software Version:	XX.A
Tested Hardware Options:	<i>Examples: Full/Partial/No Display; Full/Partial/No Keypad; DTMF Microphone, Frequency Bands</i>
Tested Software Options:	<i>Examples: P25 Conventional, P25 Trunking, P25 TDMA Trunking, AES-256 Encryption</i>

**SUBSCRIBER SUMMARY TEST REPORT**

Summary Test Report Identification: <sup>1</sup>	<i>Enter Subscriber STR identifier</i>
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**ENCRYPTION STATEMENT**

This product has been tested according to *Baseline Common Air Interface Testing Requirements July 2017*<sup>2</sup> (P25-CAB-CAI\_TEST\_REQ) and shall be available with one of the following options. (Please place an “X” in the box to the left of the applicable option.)

	Tested with the AES 256 encryption algorithm and shall be available with AES 256 encryption at a minimum or without any encryption of any type.
	Tested without the AES 256 encryption algorithm and shall only be available without any encryption of any type.

<sup>1</sup> The Summary Test Report is available upon request. Please send your request to [P25CAP@hq.dhs.gov](mailto:P25CAP@hq.dhs.gov) and include the ‘Subscriber Product / Model Name’ and the ‘Summary Test Report Identification’ in the email.

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

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**CONVENTIONAL PERFORMANCE**

The subscriber product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI\_TEST\_REQ – July 2017*, Section 2.1.1.1 - Conventional Subscriber Unit 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, Signal Delay Spread Capability, 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 Power and Encoder Attack Time, 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  $\pm 12.5$  kHz*]
- 2.
- 3.

**TRUNKING PERFORMANCE - FDMA**

The subscriber product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI\_TEST\_REQ – July 2017*, Section 2.1.1.2 - Trunked Subscriber Unit Performance - FDMA. 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, Signal Delay Spread Capability, 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 Power Attack time, Encoder Attack Time, Transmitter Throughput Delay, Frequency Deviation for C4FM, and Modulation Fidelity.

**Trunked Tests:** Trunking Control Channel Slot Times, Trunking Request Time, and Transmitter Time to Key on a Traffic Channel.

**Passed Except for the Following Unsupported, Excepted or Failed Test Cases**

1. Example [*37.5 ms trunking control channel slot times unsupported*]
- 2.
- 3.

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**TRUNKING PERFORMANCE - TDMA**

The subscriber product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI\_TEST\_REQ – July 2017*, Section 2.1.1.3 - Trunked Subscriber Unit Performance - TDMA. 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, Signal Delay Spread Capability, 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), Frequency Deviation for H-CPM, Modulation Fidelity, Symbol Rate Accuracy, H-CPM Logical Channel Power measurements, and H-CPM Channel Time Alignment.

**Passed Except for the Following Unsupported, Excepted or Failed Test Cases**

1. Example [*TDMA capability not supported*]
- 2.
- 3.

**CONVENTIONAL DIRECT MODE INTEROPERABILITY**

The subscriber product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI\_TEST\_REQ – July 2017*, Section 2.1.3.1 - Conventional Subscriber Unit Interoperability - Direct Mode. All specified test cases were passed with 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 Direct 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. Example [*In order to pass the unit to unit voice call test case, a subscriber with DTMF keypad and ID display capability is required*]
- 2.

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**CONVENTIONAL REPEAT MODE INTEROPERABILITY**

The subscriber product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI\_TEST\_REQ – July 2017*, Section 2.1.3.2 - Conventional Subscriber Unit 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. Example [*In order to pass the unit to unit voice call test case, a subscriber with DTMF keypad and ID display capability is required*]
- 2.

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

The subscriber product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI\_TEST\_REQ – July 2017*, Section 2.1.3.3 - Conventional Subscriber Unit 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. Example [*In order to pass the unit to unit voice call test case, a subscriber with DTMF keypad and ID display capability is required*]
- 2.

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**TRUNKED SUBSCRIBER UNIT INTEROPERABILITY – FDMA (Phase 1)**

The subscriber product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI\_TEST\_REQ – July 2017*, Section 2.1.3.4 - Trunked Subscriber Unit 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. Example [*In order to pass the unit to unit voice call test case, a subscriber with DTMF keypad and ID display capability is required*]
- 2.

**TRUNKED SUBSCRIBER UNIT INTEROPERABILITY – TDMA (Phase 2)**

The subscriber product has been tested against the test cases specified in the Project 25 Compliance Assessment Bulletin *P25-CAB-CAI\_TEST\_REQ – July 2017*, Section 2.1.3.5 - Trunked Subscriber Unit 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 Subscriber 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. Example [*In order to pass the unit to unit voice call test case, a subscriber with DTMF keypad and ID display capability is required*]
- 2.

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**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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