



# Office for Interoperability and Compatibility

## Project 25 Compliance Assessment Bulletin

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Project 25

Compliance Assessment Program

Baseline Common Air Interface Testing Requirements

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**P25-CAB-CAI\_TEST\_REQ**

June 2009

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## Notice of Disclaimer and Limitation of Liability

The Project 25 Compliance Assessment Program (P25 CAP) provides equipment purchasers demonstrated evidence of a product's compliance with a select group of requirements within the suite of P25 standards. The test procedures used to validate these requirements are also part of the P25 suite of standards. While successful tests will demonstrate P25 compliance for the specific requirements tested, the conclusions drawn from these tests do not apply to every environment or need that individual users may have. P25-CAP-mandated tests only demonstrate product compliance with the test procedures listed in the Supplier's Declaration of Compliance and, therefore, only attest to a product's compliance with specific requirements within the P25 standard.

## Revision History

Version	Date	Description
First draft	April 29, 2008	Draft released for review.
Release	July 1, 2008	Final release version approved on June 25, 2008, P25 CAP Governing Board meeting.
Draft	August 1, 2008	Draft version modifying the rule of three and adding the Exceptions section.
Release	August 18, 2008	Final release version approved on August 14, 2008, P25 CAP Governing Board meeting.
Draft	December 16, 2008	Draft version modifying this Compliance Assessment Bulletin to specifically cover the P25 Common Air Interface.
Release	February 4, 2009	Final release version approved on February 4, 2009, P25 CAP Governing Board meeting.
Draft	May 6, 2009	Draft version modifying TIA standards references to account for updates, modifying language concerning the rule of three to ensure consistency, and adding language concerning the addition of roaming configurations to trunked interoperability testing.

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## 1 Introduction

The Project 25 Compliance Assessment Program (P25 CAP) is a voluntary program that allows P25 equipment suppliers to formally demonstrate their products' compliance with a select group of requirements within the suite of P25 standards. The purpose of the Program is to provide emergency response agencies with evidence that the communications equipment they are purchasing interoperates, conforms to P25 standards, and meets P25 performance requirements.

The Program requires test laboratories to demonstrate their competence through a rigorous and objective assessment process. Such a process promotes the user community's confidence in, and acceptance of, test results from recognized laboratories. All equipment suppliers that participate in the P25 CAP must use laboratories recognized by the U.S. Department of Homeland Security (DHS) to test their products. P25 equipment suppliers will release Summary Test Reports and Suppliers Declarations of Compliance based on testing from DHS-recognized laboratories. This documentation will assure the public that P25 equipment complies with established standards.

Performance, conformance, and interoperability issues are likely to occur in all communications technologies and especially in ones such as P25 where protocols constantly adapt to changing user requirements. Such problems should be resolved within the P25 CAP and, notably, before product launch and deployment. Further, the declaration of compliance-related documents developed by Program participants will provide useful technical information about the equipment.

The P25 CAP will provide the more than 60,000 emergency response agencies nationwide with a consistent and tractable perspective of P25 product compliance. It will also provide a means of verifying that Federal grant dollars are being invested in standardized solutions and equipment that promote interoperability.

### 1.1 Scope

The FY 2007 SAFECOM *Recommended Federal Grant Guidance* states that grant applicants using funds to purchase P25 equipment must obtain certain documented evidence from the manufacturer. The evidence should demonstrate that the equipment has been tested based on all of the applicable, published P25 CAP Compliance Assessment Bulletins covering performance, conformance, and interoperability. This document defines these procedures for the P25 Common Air Interface (CAI). Applicable test procedures were developed to test all mandatory features and standard options installed in the product contemplated for purchase.<sup>1</sup>

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<sup>1</sup> Most radio technologies require nominal, as well as extreme testing. The present P25 CAP tests nominal conditions only. If extreme testing is required, the contract for purchase should stipulate and mandate appropriate testing before devices or systems are purchased. Following extreme testing, the measurement report and data should be reviewed by the procuring agency to determine if the extreme climatic and/or power supply voltages have been tested.

## 1.2 Normative References

- [1] ANSI/TIA-102.CAAA-C, Digital C4FM/CQPSK Transceiver Measurement Methods
- [2] ANSI/TIA-102.CAAB-B, Land Mobile Radio Transceiver Performance Recommendations – Project 25 – Digital Radio Technology, C4FM/CQPSK Modulation
- [3] ANSI/TIA-102.CABC-A, Interoperability Testing for Voice Operation in Trunked Systems
- [4] ANSI/TIA-102.CABC-A-1 Interoperability Testing for Voice Operation in Trunked Systems Addendum – Wide Area Roaming Operation

## 1.3 Informative References

- [5] TSB-102.CBBJ, Project 25 Compliance Assessment Program Definition of Compliance – Trunking Interoperability
- [6] TSB-102.CBBH, Project 25 Compliance Assessment Program Definition of Compliance – Trunking Mode Fixed Station Transceiver and Related Infrastructure Performance
- [7] TSB-102.CBBF, Project 25 Compliance Assessment Program Definition of Compliance – Trunking Mode Subscriber Unit Transceiver Performance
- [8] TSB-102.CBBC, Project 25 Compliance Assessment Program Definition of Compliance – Conventional Mode Fixed Station Transceiver Performance
- [9] TSB-102.CBBA, Project 25 Compliance Assessment Program Definition of Compliance – Conventional Mode Subscriber Unit Transceiver Performance

## 2 Baseline Common Air Interface Compliance Assessment Requirements

### 2.1 Subscriber Units (Phase 1)

If a subscriber unit (SU) can operate in both a conventional mode of operation and a trunked mode of operation, and if tests required for both are the same, the laboratory performing the tests will only be required to perform the duplicative test once.

#### 2.1.1 Performance

SUs shall be tested in accordance with the following sections of ANSI/TIA-102.CAAA-C [1] and shall meet or exceed all of the corresponding minimal performance recommendations (or Class B requirements, where applicable) as specified in ANSI/TIA-CAAB-B [2].

##### 2.1.1.1 Conventional Mode Operation

Table 1. Conventional Mode Subscriber Unit Receiver Tests

Subscriber Unit Receiver Tests	Method of Measurement [1]	Performance Recommendation [2]
Reference Sensitivity	§2.1.4	§3.1.4
Faded Reference Sensitivity	§2.1.5	§3.1.5
Signal Delay Spread Capability	§2.1.6	§3.1.6
Adjacent Channel Rejection	§2.1.7	§3.1.7
Co-Channel Rejection	§2.1.8	§3.1.8
Spurious Response Rejection	§2.1.9	§3.1.9
Intermodulation Rejection	§2.1.10	§3.1.10
Signal Displacement Bandwidth	§2.1.11	§3.1.11

Subscriber Unit Receiver Tests	Method of Measurement [1]	Performance Recommendation [2]
Late Entry Unsilence Delay	§2.1.17	§3.1.17
Receiver Throughput Delay	§2.1.18	§3.1.18

**Table 2. Conventional Mode Subscriber Unit Transmitter Tests**

Subscriber Unit Transmitter Tests	Method of Measurement [1]	Performance Recommendation [2]
Unwanted Emissions: Adjacent Channel Power Ratio	§2.2.8	§3.2.8
Transmitter Power and Encoder Attack Time	§2.2.12	§3.2.12
Transmitter Throughput Delay	§2.2.14	§3.2.14
Frequency Deviation for C4FM	§2.2.15	§3.2.15
Modulation Fidelity	§2.2.16	§3.2.16
Transient Frequency Behavior	§2.2.18	§3.2.18

**2.1.1.2 Trunked Mode Operation**

**Table 3. Trunking Mode Subscriber Unit Receiver Tests**

Subscriber Unit Receiver Tests	Method of Measurement [1]	Performance Recommendation [2]
Reference Sensitivity	§2.1.4	§3.1.4
Faded Reference Sensitivity	§2.1.5	§3.1.5
Signal Delay Spread Capability	§2.1.6	§3.1.6
Adjacent Channel Rejection	§2.1.7	§3.1.7
Co-Channel Rejection	§2.1.8	§3.1.8
Spurious Response Rejection	§2.1.9	§3.1.9
Intermodulation Rejection	§2.1.10	§3.1.10
Signal Displacement Bandwidth	§2.1.11	§3.1.11

**Table 4. Trunking Mode Subscriber Unit Transmitter Tests**

Subscriber Unit Transmitter Tests	Method of Measurement [1]	Performance Recommendation [2]
Unwanted Emissions: Adjacent Channel Power Ratio	§2.2.8	§3.2.8
Transmitter Power and Encoder Attack Time	§2.2.12	§3.2.12
Transmitter Throughput Delay	§2.2.14	§3.2.14
Frequency Deviation for C4FM	§2.2.15	§3.2.15
Modulation Fidelity	§2.2.16	§3.2.16
Transient Frequency Behavior	§2.2.18	§3.2.18

**Table 5. Trunking Mode Subscriber Unit Tests**

Trunking Subscriber Unit Tests	Method of Measurement [1]	Performance Recommendation [2]
Trunking Control Channel Slot Times	§2.3.1	§3.3.1
Trunking Request Time <sup>2</sup>	§2.3.2	§3.3.2
Trunking Voice Access Time <sup>2</sup>	§2.3.3	§3.3.3
Transmitter Time to Key on a Traffic Channel <sup>2</sup>	§2.3.5	§3.3.5

## 2.1.2 Conformance

### 2.1.2.1 Basic Conventional Mode Operation

No tests are defined or required at this time.

### 2.1.2.2 Advanced Conventional Mode Operation

No tests are defined or required at this time.

### 2.1.2.3 Basic Trunked Mode Operation

No tests are defined or required at this time.

### 2.1.2.4 Advanced Trunked Mode Operation

No tests are defined or required at this time.

## 2.1.3 Interoperability

### 2.1.3.1 Conventional Mode Operation

No tests are defined or required at this time.

### 2.1.3.2 Trunked Mode Operation

P25 SUs capable of trunked mode operation shall be tested for interoperability in accordance with ANSI/TIA-102.CABC-A [3]. SUs must be tested against at least three of the commercially available, band-compatible trunked systems, where each trunked system is from a different manufacturer. Tests are to be executed in each of the Home and Roaming configurations provided in ANSI/TIA-102.CABC-A-1 [4] section 2.1.1, provided that the configuration is supported by the manufacturer.

**Table 6 Trunking Interoperability Tests**

Trunking Interoperability Tests	Normative Test [3]
<b>Full Registration</b>	<b>§2.2.1</b>
Valid Registration	§2.2.1.4.1
Denied or Refused Registration	§2.2.1.4.2
Unverified Registration	§2.2.1.4.3
<b>Group Voice Call</b>	<b>§2.2.2</b>
Group Call Granted	§2.2.2.4.1
Group Call Denied	§2.2.2.4.2
Group Call Request Queued	§2.2.2.4.3

<sup>2</sup> This test applies to the infrastructure and subscriber unit; the measurement method necessitates both trunking infrastructure and subscriber equipment.

Trunking Interoperability Tests	Normative Test [3]
<b>Unit-to-Unit Voice Call</b>	<b>§2.2.3</b>
Unit-to-Unit Call with Target Availability Check <sup>3</sup>	§2.2.3.4.1
Unit-to-Unit Call with Target Availability Check Denied by Target <sup>3</sup>	§2.2.3.4.2
Unit-to-Unit Call Queued with Target Availability Check <sup>3</sup>	§2.2.3.4.3
Unit-to-Unit Call without Target Availability Check <sup>3</sup>	§2.2.3.4.4
Unit-to-Unit Call Queued without Target Availability Check <sup>3</sup>	§2.2.3.4.5
Unit-to-Unit Call Denied	§2.2.3.4.6
<b>Broadcast Voice Call</b>	<b>§2.2.4</b>
Broadcast Voice Call	§2.2.4.4.1
<b>Affiliation</b>	<b>§2.2.5</b>
Radio Permitted to Affiliate with New Group	§2.2.5.4.1
Radio Denied Affiliation to New Group	§2.2.5.4.2
<b>Announcement Group Call</b>	<b>§2.2.6</b>
Collection of Talk Groups Receive Call <sup>4</sup>	§2.2.6.4.1
<b>Emergency Alarm</b>	<b>§2.2.7</b>
Emergency Alarm <sup>4</sup>	§2.2.7.4.1
<b>Emergency Group Call</b>	<b>§2.2.8</b>
Emergency Call <sup>4</sup>	§2.2.8.4.1
<b>Encryption</b>	<b>§2.2.10</b>
Call Privacy for Encrypted Call <sup>4</sup>	§2.2.10.4.1
<b>Intra-Location Registration Area Roaming</b>	<b>§2.2.11</b>
Idle Radio	§2.2.11.4.1

## 2.2 Base Stations/Repeaters (Phase 1)

If a base station/repeater can operate in both a conventional mode of operation as well as a trunked mode of operation, and if tests required for both are the same, the laboratory performing the tests will only be required to perform the duplicative test once.

### 2.2.1 Performance

Base station radios and repeater units shall be tested in accordance with the following sections of ANSI/TIA-102.CAAA-C [1], and shall meet or exceed all of the corresponding minimal performance recommendations (or Class B requirements, where applicable) as specified in ANSI/TIA-102.CAAB-B [2].

#### 2.2.1.1 Conventional Mode Operation

Table 7. Conventional Mode Fixed Station Receiver Tests

Conventional Station Receiver Tests	Method of Measurement [1]	Performance Recommendation [2]
Reference Sensitivity	§2.1.4	§3.1.4
Faded Reference Sensitivity	§2.1.5	§3.1.5
Adjacent Channel Rejection	§2.1.7	§3.1.7
Co-Channel Rejection	§2.1.8	§3.1.8
Spurious Response Rejection	§2.1.9	§3.1.9

<sup>3</sup> The fixed network equipment may support a target availability check, no target availability check, or both.

<sup>4</sup> If provided by the manufacturer, this capability should be tested.

Intermodulation Rejection	§2.1.10	§3.1.10
Signal Displacement Bandwidth	§2.1.11	§3.1.11
Late Entry Unsquench Delay <sup>5</sup>	§2.1.17	§3.1.17
Receiver Throughput Delay <sup>5</sup>	§2.1.18	§3.1.18

**Table 8. Conventional Mode Fixed Station Transmitter Tests**

Conventional Station Transmitter Tests	Method of Measurement [1]	Performance Recommendation [2]
Unwanted Emissions: Adjacent Channel Power Ratio	§2.2.8	§3.2.8
Transmitter Throughput Delay <sup>6</sup>	§2.2.14	§3.2.14
Frequency Deviation for C4FM	§2.2.15	§3.2.15
Modulation Fidelity	§2.2.16	§3.2.16
Transient Frequency Behavior	§2.2.18	§3.2.18

### 2.2.1.2 Trunked Mode Operation

**Table 9. Trunked Mode Fixed Station Receiver Tests**

Trunking Station Receiver Tests	Method of Measurement [1]	Performance Recommendation [2]
Reference Sensitivity	§2.1.4	§3.1.4
Faded Reference Sensitivity	§2.1.5	§3.1.5
Adjacent Channel Rejection	§2.1.7	§3.1.7
Co-Channel Rejection	§2.1.8	§3.1.8
Spurious Response Rejection	§2.1.9	§3.1.9
Intermodulation Rejection	§2.1.10	§3.1.10
Signal Displacement Bandwidth	§2.1.11	§3.1.11

**Table 10. Trunked Mode Fixed Station Transmitter Tests**

Trunked Station Transmitter Tests	Method of Measurement [1]	Performance Recommendation [2]
Unwanted Emissions: Adjacent Channel Power Ratio	§2.2.8	§3.2.8
Transmitter Throughput Delay <sup>6</sup>	§2.2.14	§3.2.14
Frequency Deviation for C4FM	§2.2.15	§3.2.15
Modulation Fidelity	§2.2.16	§3.2.16
Transient Frequency Behavior	§2.2.18	§3.2.18

**Table 11. Trunked Mode Infrastructure Tests**

Trunking Infrastructure Tests	Method of Measurement [1]	Performance Recommendation [2]
Trunking Voice Access Time <sup>7</sup>	§2.3.3	§3.3.3

<sup>5</sup> This test applies to fixed stations that provide an audio (analog) output.

<sup>6</sup> This test applies to fixed stations that provide an audio (analog) input.

Time to Grant <sup>7</sup>	§2.3.4	§3.3.4
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**2.2.2 Conformance**

**2.2.2.1 Basic Conventional Mode Operation**

No tests are defined or required at this time.

**2.2.2.2 Advanced Conventional Mode Operation**

No tests are defined or required at this time.

**2.2.2.3 Basic Trunked Mode Operation**

No tests are defined or required at this time.

**2.2.2.4 Advanced Trunked Mode Operation**

No tests are defined or required at this time.

**2.2.3 Interoperability**

**2.2.3.1 Conventional Mode Operation**

No tests are defined or required at this time.

**2.2.3.2 Trunked Mode Operation**

P25 trunked infrastructure shall be tested for interoperability in accordance with ANSI/TIA-102.CABC-A [3]. Trunked infrastructure must be tested against at least three of the commercially available, band-compatible SUs, where each SU is from a different manufacturer. SUs that are in the same model class shall count as one compatible test subject. A model class is defined by the manufacturer as a product having identical P25 functionality; for instance, a radio model with three keypad configurations would count as one test subject. Tests are to be executed in each of the Home and Roaming configurations provided in ANSI/TIA-102.CABC-A-1 [4] section 2.1.1, provided that the configuration is supported by the manufacturer.

**Table 12. Trunking Interoperability Tests**

Trunking Interoperability Tests	Normative Test [3]
<b>Full Registration</b>	<b>§2.2.1</b>
Valid Registration	§2.2.1.4.1
Denied or Refused Registration	§2.2.1.4.2
Unverified Registration	§2.2.1.4.3
<b>Group Voice Call</b>	<b>§2.2.2</b>
Group Call Granted	§2.2.2.4.1
Group Call Denied	§2.2.2.4.2
Group Call Request Queued	§2.2.2.4.3
<b>Unit-to-Unit Voice Call</b>	<b>§2.2.3</b>
Unit-to-Unit Call with Target Availability Check <sup>8</sup>	§2.2.3.4.1

<sup>7</sup> These tests apply to infrastructure and subscriber units, and the measurement method necessitates both trunking infrastructure and subscriber equipment.

<sup>8</sup> The fixed network equipment may support a target availability check, no target availability check, or both.

Trunking Interoperability Tests	Normative Test [3]
Unit-to-Unit Call with Target Availability Check Denied by Target <sup>8</sup>	§2.2.3.4.2
Unit-to-Unit Call Queued with Target Availability Check <sup>8</sup>	§2.2.3.4.3
Unit-to-Unit Call without Target Availability Check <sup>8</sup>	§2.2.3.4.4
Unit-to-Unit Call Queued without Target Availability Check <sup>8</sup>	§2.2.3.4.5
Unit-to-Unit Call Denied	§2.2.3.4.6
<b>Broadcast Voice Call</b>	<b>§2.2.4</b>
Broadcast Voice Call	§2.2.4.4.1
<b>Affiliation</b>	<b>§2.2.5</b>
Radio Permitted to Affiliate with New Group	§2.2.5.4.1
Radio Denied Affiliation to New Group	§2.2.5.4.2
<b>Announcement Group Call</b>	<b>§2.2.6</b>
Collection of Talk Groups Receive Call <sup>9</sup>	§2.2.6.4.1
<b>Emergency Alarm</b>	<b>§2.2.7</b>
Emergency Alarm <sup>9</sup>	§2.2.7.4.1
<b>Emergency Group Call</b>	<b>§2.2.8</b>
Emergency Call <sup>9</sup>	§2.2.8.4.1
<b>Encryption</b>	<b>§2.2.10</b>
Call Privacy for Encrypted Call <sup>9</sup>	§2.2.10.4.1
<b>Intra-Location Registration Area Roaming</b>	<b>§2.2.11</b>
Idle Radio	§2.2.11.4.1

### 3 Reference of Baseline Common Air Interface Compliance Assessment Tests

In order to provide further clarity regarding the tests that will be performed based on this Compliance Assessment Bulletin, it is important that both the emergency response and industry communities refer to the tests in a common fashion. To help standardize this terminology, the following table is provided as the means by which a particular set of tests will be referred to:

Table 13. Reference for P25 Baseline Common Air Interface Tests

Section	Reference
2.1.1.1	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance
2.1.1.2	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance
2.1.2.1	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.1.2.1 – Project 25 Phase 1 Common Air Interface Basic Conventional Subscriber Unit Conformance

<sup>9</sup> If provided by the manufacturer, this capability should be tested.

Section	Reference
2.1.2.2	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.1.2.2 – Project 25 Phase 1 Common Air Interface Advanced Conventional Subscriber Unit Conformance
2.1.2.3	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.1.2.3 – Project 25 Phase 1 Common Air Interface Basic Trunked Subscriber Unit Conformance
2.1.2.4	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.1.2.4 – Project 25 Phase 1 Common Air Interface Advanced Trunked Subscriber Unit Conformance
2.1.3.1	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.1.3.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Interoperability
2.1.3.2	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability
2.2.1.1	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.2.1.1 – Project 25 Phase 1 Common Air Interface Conventional Base Station/Repeater Performance
2.2.1.2	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.2.1.2 – Project 25 Phase 1 Common Air Interface Trunked Base Station/Repeater Performance
2.2.2.1	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.2.2.1 – Project 25 Phase 1 Common Air Interface Basic Conventional Base Station/Repeater Conformance
2.2.2.2	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.2.2.2 – Project 25 Phase 1 Common Air Interface Advanced Conventional Base Station/Repeater Conformance
2.2.2.3	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.2.2.3 – Project 25 Phase 1 Common Air Interface Basic Trunked Base Station/Repeater Conformance
2.2.2.4	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.2.2.4 – Project 25 Phase 1 Common Air Interface Advanced Trunked Base Station/Repeater Conformance
2.2.3.1	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.2.3.1 – Project 25 Phase 1 Common Air Interface Conventional Base Station/Repeater Interoperability
2.2.3.2	P25-CAB-CAI_TEST_REQ – June 2009, Section 2.2.3.2 – Project 25 Phase 1 Common Air Interface Trunked Base Station/Repeater Interoperability

## 4 Exceptions

The preceding sections provide the tests that are required as part of the P25 CAP. Exceptions to these test requirements are possible, on a case-by-case basis, at the discretion of the P25 CAP Governing

Board. Exceptions will be noted, by date, test, and—as appropriate—duration in this section of the Compliance Assessment Bulletin.