



**Homeland
Security**

Science and Technology

Office for Interoperability and Compatibility

Technology Center

Project 25 Compliance Assessment Bulletin

Project 25 Compliance Assessment Program

P25 CAP Compliance Testing Rules

P25-CAB_TESTING_RULES_FOR_P25CAP

October 2019

Notice of Disclaimer and Limitation of Liability

The Project 25 Compliance Assessment Program (P25 CAP) provides equipment purchasers with demonstrated evidence of a product's compliance with a select group of requirements within the suite of P25 standards. Although successful tests will demonstrate P25 compliance for the specific requirements tested, the conclusions drawn from these tests do not apply to every environment or individual user's needs. P25 CAP-mandated tests only demonstrate product compliance with the tested features 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 for PC	May 2019	Draft release for public comment
Version 1	10/1/2019	Final version published

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1 Introduction

The Department of Homeland Security (DHS) Science and Technology Directorate's (S&T) Office for Interoperability and Compatibility Technology Center (OIC-TC) Project 25 Compliance Assessment Program (P25 CAP) is a voluntary program that allows P25 equipment suppliers to demonstrate their products' compliance with selected 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 meet P25 standards for performance, conformance and interoperability.

The program requires test laboratories to demonstrate their competence through a rigorous and objective assessment process conducted by the approved accreditation bodies.¹ Such a process promotes the user community's confidence in, and acceptance of, test results from DHS-recognized laboratories. All equipment suppliers that participate in the P25 CAP must use DHS-recognized laboratories to conduct performance, conformance and interoperability tests on their products. P25 equipment suppliers will release Summary Test Report (STR) and Supplier's Declaration of Compliance (SDOC) documents based on the Detailed Test Report (DTR) from the DHS-recognized laboratory(s) that performed the product testing. This documentation will serve to increase the public's confidence in the performance, conformance and interoperability of P25 equipment.

Performance, conformance and interoperability issues are likely to occur in all communications technologies and especially in ones like P25 with protocols that constantly adapt to changing user requirements. Users should seek to address such problems with the supplier first, then with TIA TR8.25 Compliance Assessment Subcommittee, and then 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.

1.1 Scope

Federal grant funding guidance states that grantees using federal funds to purchase P25 equipment shall obtain evidence that the equipment was tested in a manner consistent with P25 CAP. The evidence should show the equipment tested was based on all of the applicable, published P25 CAP Compliance Assessment Bulletins (CAB) covering performance, conformance and interoperability. The SDOC documents posted to the dhs.gov/science-and-technology/p25-cap website provides that evidence. This CAB provides rules for the application of the multiple P25 CAP Testing Requirements CABs.

1.2 Effective Date

This Compliance Assessment Bulletin becomes effective on October 1, 2019.

¹ American Association for Laboratory Accreditation (A2LA); ANSI-ASQ National Accreditation Board (ANAB); International Accreditation New Zealand (IANZ)

1.3 Acronyms

CAB Compliance Assessment Bulletin

CAI Common Air Interface

1.4 Normative References

Reference	Filename	Title
[CAI-CAB-2016]	P25-CAB-CAI_TEST_REQ-v3-508	<i>Project 25 Compliance Assessment Program Baseline Common Air Interface Testing Requirements August 2016</i>
[CAI-CAB-2017]	P25-CAB-CAI_TEST_REQ-TDMA_170720-508	<i>Project 25 Compliance Assessment Program Baseline Common Air Interface Testing Requirements July 2017</i>
[CAI-CAB-2018]	P25-CAB-CAI_TEST_REQ-TDMA_170720_20181029_v3-508c_0 (3)	<i>Project 25 Compliance Assessment Program Baseline Common Air Interface Testing Requirements October 2018</i>

2 Rules for the Application of the CAI CABs

DHS S&T has issued multiple P25 CAP CAI Testing Requirements CABs. Table 1 provides rules for the application of the different CAI CAB versions.

Table 1. Rules for the Application of CAI CABs

Rule #	Rule Description
1	Any (conventional only, conventional/trunked FDMA only, or conventional/trunked FDMA/TDMA) new product (new hardware, new software and never been P25 CAP tested before) must be tested to [CAI-CAB-2018].
2	If the product started the P25 CAP testing process using [CAI-CAB-2017], the product can finish the testing process and be submitted as tested under the 2017 CAB.
3	Products that support conventional/trunked FDMA/TDMA and have already been tested to [CAI-CAB-2017], do not need to be gap tested to [CAI-CAB-2018]. <ul style="list-style-type: none"> Gap testing for Rule 3 refers to testing of the new test cases and changes that were added to [CAI-CAB-2017], which then became [CAI-CAB-2018].
4	Products that only support conventional FDMA or conventional/trunked FDMA and tested to [CAI-CAB-2016], do not need to be gap tested to [CAI-CAB-2017] or [CAI-CAB-2018]. <ul style="list-style-type: none"> Gap testing for Rule 4 refers to testing of the new test cases and changes that were added to [CAI-CAB-2016], which then became [CAI-CAB-2017].
5	Given rules 1-4, any product that has already been tested and submitted under [CAI-CAB-2017], may be gap tested and new SDOC and STR submitted under [CAI-CAB-2018].
6	Any time modifications/updates are made to a product (a particular model or a model class) that would change previously reported SDOC and STR test case results, the product manufacturer is required to gap test the test case results that changed and submit a new SDOC and STR using the latest published CABs.

Rule #	Rule Description
7	If a product is still available for procurement 5 years after the product was originally approved by P25 CAP and the STR results are still valid, the product manufacturer is required to submit a new SDOC that confirms the product is still P25 CAP Compliant.

Please contact P25 CAP via P25CAP@hq.dhs.gov for clarifications, exceptions or waivers. Each request will be evaluated on its own merits by P25 CAP.

3 Rules for the Application of the ISSI CSSI CABs

(In development)