

Public Comment Feedback Table for P25 CAP ISSI CSSI Conformance Testing Requirements CAB

Document Title: P25-CAB-ISSI-CSSI_CONFORMANCE_TEST_REQ 20181127

Comment Date: March 19, 2019

Commenter Name or Company: Motorola Solutions

#	Comment	Action	Explanation
M1	<p>Section 1.1</p> <p>This section states: “This CAB lists test cases for the P25 Console Sub-System Interface (CSSI) and the P25 Inter Sub-System Interface (ISSI).” Does that mean interoperability test requirements will be added to this CAB or will they be covered in a separate CAB?</p>	See Explanation	An ISSI CSSI Interoperability Testing Requirements CAB will be a separate document.
M2	<p>Section 1.4</p> <p>Is a copy available or when will a copy of “P25 ISSI-CSSI Conformance Tester users guide” be available?</p>	See Explanation	A copy of the user’s guide for the test tool will be available after the test tool has been validated.
M3	<p>Section 2.3 page 3</p> <p>Par 3 states: “it is expected that a mobile subscriber unit (registered to the RFSS under test) would initiate the test case.”</p> <p>Previous ISSI testing CABs required that radios used in the ISSI testing have previously passed CAI CAP Interoperability tests associated with the functionality under test. Is it expected that radios used for CAP conformance testing have passed CAI CAP interoperability testing? Please document the answer in the CAB.</p> <p>Note also that this approach would require that the manufacturer of the ISSI equipment under test has access to subscriber units that have passed CAI CAP interoperability tests associated with the ISSI/CSSI functionality under test.</p>	See Explanation	<p>The subscribers used to initiate the ISSI CSSI Conformance test cases are not under test or evaluation.</p> <p>There is no requirement that mobile subscribers used to initiate the ISSI CSSI testing have passed P25 CAP CAI Interoperability testing. The only requirement is that the mobile subscriber can initiate the test.</p> <p>Console subscriber units will also be asked to initiate test cases. Console subscriber units have never been CAI tested.</p>
M4	<p>Section 2.3 paragraphs 6 and 7</p> <p>The CSS should have the same definition whether it is being emulated by the Valid8 tool or is a manufacturer’s product under test. The CSS is never a group home as a product under test. The CSS is a group home and a group serving when emulated by Valid8. The definition should be consistent; it should never be a group home in either case.</p>	Accepted	Test cases that have a console and the group home will be removed for group based services.

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M5	<p>Section 2.6</p> <p>States: “The ISSI/CSSI interface test tool solution <i>enables conformance</i> of these interfaces in the P25 public safety network.”</p> <p>We believe this should say: “enables conformance testing.”</p>	Accepted	The CAB will be updated.
M6	<p>Section 2.6</p> <p>Will there be documentation describing expectations for the use of alternate conformance testing tools?</p>	See Explanation	Any test tool would be expected to support all of the P25 CAP defined conformance test cases for the ISSI and CSSI and undergo a third party validation.
M7	<p>Section 3.1</p> <p>What configuration is required for the Required PASS test cases (this question applies to section 4.1 and 5.1 as well)?</p>	See Explanation	Sections 3.1, 3.2, 3.3 apply to an ISSI of a RFSS; testing between two RFSSs. Sections 4.1, 4.2, 4.3, 4.5 apply to a CSSI of a RFSS; testing between a RFSS and a Console. Section 5.1, 5.2, 5.5 apply to a CSSI of a Console; testing between a Console and RFSS.
M8	<p>Section 3.1 table 1 (and other required pass test case tables)</p> <p>Note that the standards do not require implementation of any aspect of the functionality that is required to pass and the CAI test requirements CAB does not require that tests for this same functionality must be passed.</p> <p>Please explain why functionality that is not required to pass (and so, required to be implemented) on the CAI is required to pass on the ISSI/CSSI.</p>	See Explanation	<p>All features defined in the P25 CAP ISSI CSSI Conformance Testing Requirements document are defined in the TIA-102 Standards. P25 CAP decided that certain features must be available and supported across the ISSI CSSI for P25 CAP approval.</p> <p>ISSI CSSI features such as ‘Unconfirmed Group Call’ and ‘Confirmed Group Call’ are not defined in the CAI Standards. Also, ISSI CSSI Conformance testing is validating the SIP, SDP and RTP messaging across the ISSI CSSI. The CAI has no such messaging.</p>

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M9	<p>Section 3.1 table 1 (and other required pass test case tables)</p> <p>From a CAI CAB interoperability test case standpoint, the required ISSI test cases include emergency alarm cancel and group emergency alarm cancel test cases. The CAI CAB does not include emergency alarm cancel or group emergency alarm cancel interoperability test cases for subscribers. This seems to go against the concept of using CAP certified subscribers in CAP ISSI/CSSI testing.</p> <p>Please explain the philosophy regarding the use of CAP certified radios for CAP ISSI/CSSI testing.</p>	See Explanation	<p>P25 CAP purposely added these additional test cases to the ISSI CSSI conformance testing knowing these test cases have yet to be add to P25 CAP CAI interoperability testing. These ISSI CSSI features have been defined in the TIA-102 Standard for years, and they are known to be in use by fielded P25 systems.</p> <p>The TIA/TR8 does specify Emergency Alarm test cases and Emergency Call test cases for CAI trunked interoperability testing. These test case are found in TIA-102.CABC-C Interoperability Testing for Voice Operation in Trunked Systems. It is noted that <u>every</u> trunked subscriber and base station repeater that is found under 'Approved Equipment' on the P25 CAP webpage passes the emergency alarm and emergency call test cases for CAI interoperability.</p> <p>In the Emergency Alarm test case procedures and the Emergency Call test case procedures found in TIA-102.CABC-C, there is always a step in the procedures that states 'cancel the emergency alarm' or 'clear any emergency condition' or 'cancel the emergency condition' or 'clear any emergency condition' or 'cancel the emergency call.' Even though there is no specific TIA test case for testing Emergency Alarm Cancel nor Group Emergency Cancel, the 'cancel' functionality is required in the Emergency Alarm and the Emergency Call test cases for CAI testing.</p> <p>It would seem that any P25 trunked subscriber found on the P25 CAP webpage should be able to support testing of the Emergency Alarm Cancel and the Group Emergency Cancel feature for ISSI CSSI testing. While not called out as a specific test, the 'cancel' functionality is part of the published TIA-102.CABC-C interoperability test procedures.</p>

Public Comment Feedback Table for P25 CAP ISSI CSSI Conformance Testing Requirements CAB

Comment Date: June 28,2019

Commenter Name or Company: Harris Corporation

#	Comment	Action	Explanation
H1	<p>Comment # M9 and associated explanation Commenting from the perspective of a recognized CAP test lab for CAI Interoperability:</p> <p>The OIC explanation states that Emergency Alarm Cancel and the Group Emergency Cancel functionality is part of TIA-102.CABC-C, while not called out as a specific test. It also states that all subscribers in the ‘Approved Equipment’ list have passed specified test cases for Emergency Alarm and Emergency Call for CAI trunked Interoperability testing which include [non-pass criterion] steps that instruct to cancel or clear emergencies. Finally, the conclusion is drawn that “... any P25 trunked subscriber found on the P25 CAP webpage should be able to support testing of the Emergency Alarm Cancel and the Group Emergency Cancel feature for ISSI CSSI testing.”</p> <p>Harris would like to make clear that during our execution of these tests we would not fail a subscriber or base station under test for these test cases due to cancel functionality, as long as the subscriber and base station could be cancelled/cleared, by whatever means, even if only locally to itself and independent of each other. The steps in question, which again are not pass criterion steps, are treated like “clean-up” or configuration steps that manipulate the UUT between pass criterion steps and do not verify that any standard behavior or functionality. Because of this, Harris does not agree with OIC’s conclusion as stated above. In order to be sure that all subscribers that have passed CAI Interoperability are capable of the functionality needed to test CSSI-ISSI Conformance (assuming this is OIC’s goal), we believe that the TIA-102.CABC-C Interoperability test standard would have to be revised to specify new emergency/alarm cancel test cases or modify the existing test cases to make the “cancel” steps part of the</p>	Accept/no-change	<p>DHS S&T understands your question and here are some clarifications with regard to the subscriber units.</p> <ol style="list-style-type: none"> 1. The subscriber devices are not the articles under test. 2. Furthermore, the ISSI/CSSI is looking at messaging between the subscriber themselves and not necessarily the states. Therefore, it is not expected that you will “fail the test if the emergency call release clean up” does not quite work in the same manner. 3. DHS S&T also understands the emergency call release works differently between the manufacturers.

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	pass criteria for the whole test case. Either option would require that the standard "cancel" behavior being verified by the test cases be defined and specified in TIA-102.AABD, Project 25 Trunking Procedures.		