

Project 25 Compliance Assessment Program

Summary Test Report

Harris XG-15P UHF-H

STR-Harris-XG15PUHFH160226

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|------------------------------|--|
| Test Item Description | |
| Manufacturer | <i>Harris Corp</i> |
| Manufacturer Contact | <i>David Prather 434-455-6742</i> |
| Product Name | <i>Harris XG-15P UHF-H portable subscriber</i> |
| Installed Options | <i>XLPR02A firmware</i> |
| Installed Vocoder | <i>Enhanced Full Rate with system improvements</i> |

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|---|
| Test Description |
| <i>P25-CAB-CAI_TEST_REQ – March 2010 , Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance</i> |
| <i>P25-CAB-CAI_TEST_REQ –March 2010 , Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance</i> |
| <i>P25-CAB-CAI_TEST_REQ - March 2010 , Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability</i> |

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| Laboratory Information (Performance) | |
| P25 CAP Laboratory Code | <i>Harris Corp P25CAP081017</i> |
| Date(s) of Test | <i>February 25, 2016</i> |
| Date of Issue | <i>February 25, 2016</i> |

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| Laboratory Information | |
| P25 CAP Laboratory Code | <i>Harris Corp P25CAP081017</i> |
| Date(s) of Test | <i>September 9, 2013</i> |
| Date of Issue | <i>May 1, 2014</i> |

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| Laboratory Information | |
| P25 CAP Laboratory Code | <i>EF Johnson Technologies P25CAP081010</i> |
| Date(s) of Test | <i>August 8, 2013</i> |
| Date of Issue | <i>September 5, 2013</i> |

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| Laboratory Information | |
| P25 CAP Laboratory Code | <i>Timco Engineering P25CAPTIMCO081016</i> |
| Date(s) of Test | <i>October 18, 2013; October 18, 2013</i> |
| Date of Issue | <i>October 22, 2013; October 23, 2013</i> |

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| Laboratory Information | |
| P25 CAP Laboratory Code | <i>Compliance Testing LLC P25CAP081011 / Motorola Solutions Inc. P25CAP081012</i> |
| Date(s) of Test | <i>August 25, 2015</i> |
| Date of Issue | <i>August 25, 2015</i> |

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| Informative References | |
|-------------------------------|-----------------------------|
| Date | Title |
| <i>March 2010</i> | <i>P25-CAB-CAL_TEST_REQ</i> |

| Other Devices Tested with Harris XG-15P UHF-H | | |
|--|---|----------------------------|
| Manufacturer | Product Name, Definition, and unique ID | Installed Options |
| <i>Harris</i> | <i>MASTR V Subsystem Serial #s: 8529055, 8527186, 8527187, 8527188, 8090080, 8529054, 8527183, 8527184, 8527185</i> | <i>SR10A</i> |
| <i>Motorola Solutions</i> | <i>ASTRO 25 with GTR8000 base station</i> | <i>SYSTEM RELEASE 7.15</i> |
| <i>EF Johnson Technologies</i> | <i>3800 Trunking Repeater Base Station</i> | <i>Rel 1.1.1-5</i> |
| <i>Tait</i> | <i>TN9400</i> | <i>V 1.40</i> |
| <i>Tait/Cassidian</i> | <i>Tait Cassidian P25 Core Network</i> | <i>EADS P25V11_06 E22</i> |

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Performance Testing

| P25-CAB-CAI_TEST_REQ – March 2010 , Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance | | DTR-P25CAP081017-2160225H XG-15P UHF-H | |
|---|--|---|----------------|
| RECEIVER TESTS- UHF-H (P25 Conventional Mode) | | | |
| Test Case | Description | Requirement | Results |
| 2.1.4 | Reference Sensitivity | ≤ -116 dBm | P1 |
| 2.1.5 | Faded Reference Sensitivity (8 & 100 km/h) | ≤ -108 dBm | P1 |
| 2.1.6 | Signal Delay Spread Capability | ≥ 50 us | P1 |
| 2.1.7 | Adjacent Channel Rejection | ≥ 60 dB | P1 |
| 2.1.8 | Co-Channel Rejection | ≤ 9 dB | P |
| 2.1.9 | Spurious Response Rejection | ≥ 70 dB | P |
| 2.1.10 | Intermodulation Rejection | ≥ 70 dB | P |
| 2.1.11 | Signal Displacement Bandwidth | ≥ 1000 Hz | P |
| 2.1.17 | Late Entry Unsquelch Delay | | |
| | No talk group or encryption | ≤ 125 ms | P |
| | Talk group only | ≤ 370 ms | P |
| | Encryption only | ≤ 370 ms | P |
| 2.1.18 | Both (on clear or encrypted channel) | ≤ 460 ms | P |
| | Receiver Throughput Delay | ≤ 125 ms | P |

| P25-CAB-CAI_TEST_REQ – March 2010 , Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance | | DTR-P25CAP081017-2160225H XG-15P UHF-H | |
|---|---|---|----------------|
| TRANSMITTER TESTS- UHF-H (P25 Conventional Mode) | | | |
| Test Case | Description | Requirement | Results |
| 2.2.8 | Unwanted Emissions: Adjacent Power Ratio | ≥ 67 dB | P |
| 2.2.12 | Transmitter Power and Encoder Attack Time | | |
| | Transmitter Attack Time | ≤ 50 ms | P |
| | Encoder Attack Time | ≤ 100 ms | P |
| 2.2.14 | Transmitter Throughput Delay | ≤ 125 ms | P |
| 2.2.15 | Frequency Deviation for C4FM | | |
| | High level Signal Deviation | $2544 < f_{dev} \leq 3111$ Hz | P |
| | Low Level Signal Deviation | $848 < f_{dev} \leq 1037$ Hz | P |
| 2.2.16 | Modulation Fidelity | $\leq 5\%$ | P |
| 2.2.18 | Transient Frequency Behavior | | |
| | Time Interval $t_1 = 10$ ms | $ \Delta f \leq 12.5$ KHz | P2 |
| | Time Interval $t_2 = 25$ ms | $ \Delta f \leq 6.25$ KHz | P |
| | Time Interval $t_3 = 10$ ms | $ \Delta f \leq 12.5$ KHz | P2 |

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| P25-CAB-CAI_TEST_REQ – March 2010 , Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance | | DTR-P25CAP081017-2160225H XG-15P UHF-H | |
|--|--|---|----------------|
| RECEIVER TESTS- UHF-H (P25 Trunked Mode) | | | |
| Test Case | Description | Requirement | Results |
| 2.1.4 | Reference Sensitivity | ≤ -116 dBm | P1 |
| 2.1.5 | Faded Reference Sensitivity (8 & 100 km/h) | ≤ -108 dBm | P1 |
| 2.1.6 | Signal Delay Spread Capability | ≥ 50 us | P1 |
| 2.1.7 | Adjacent Channel Rejection | ≥ 60 dB | P1 |
| 2.1.8 | Co-Channel Rejection | ≤ 9 dB | P |
| 2.1.9 | Spurious Response Rejection | ≥ 70 dB | P |
| 2.1.10 | Intermodulation Rejection | ≥ 70 dB | P |
| 2.1.11 | Signal Displacement Bandwidth | ≥ 1000 Hz | P |

| P25-CAB-CAI_TEST_REQ – March 2010 , Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance | | DTR-P25CAP081017-2160225H XG-15P UHF-H | |
|--|---|---|----------------|
| TRANSMITTER TESTS- UHF-H (P25 Trunked Mode) | | | |
| Test Case | Description | Requirement | Results |
| 2.2.8 | Unwanted Emissions: Adjacent Power Ratio | ≥ 67 dB | P |
| 2.2.12 | Transmitter Power and Encoder Attack Time | | |
| | Transmitter Attack Time | ≤ 50 ms | P |
| | Encoder Attack Time | ≤ 100 ms | P |
| 2.2.14 | Transmitter Throughput Delay | ≤ 125 ms | P |
| 2.2.15 | Frequency Deviation for C4FM | | |
| | High Level Signal Deviation | $2544 < f_{dev} \leq 3111$ Hz | P |
| | Low Level Signal Deviation | $848 < f_{dev} \leq 1037$ Hz | P |
| 2.2.16 | Modulation Fidelity | $\leq 5\%$ | P |
| 2.2.18 | Transient Frequency Behavior | | |
| | Time Interval $t_1 = 10$ ms | $ \Delta f \leq 12.5$ KHz | P2 |
| | Time Interval $t_2 = 25$ ms | $ \Delta f \leq 6.25$ KHz | P |
| | Time Interval $t_3 = 10$ ms | $ \Delta f \leq 12.5$ KHz | P2 |

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Trunking Performance Testing

| P25-CAB-CAI_TEST_REQ – March 2010 , Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance | | DTR-P25CAP081017-2160225H XG-15P UHF-H | |
|--|--|---|----------------|
| Trunked Subscriber Tests- UHF-H | | | |
| Test Case | Description | Requirement | Results |
| 2.3.1 | <i>Trunking Control Channel Slot Times (37.5-ms slot*)</i> | | |
| | <i>Encode Attack Time</i> | 4.15 ms max 2.00 ms min | <i>P</i> |
| | <i>RF Power Attack Time</i> | 4.15 ms max 0.00 ms min | <i>P</i> |
| | <i>RF Power Turn Off Time</i> | 1.57 ms max | <i>P</i> |
| 2.3.2 | <i>Trunking Request Time (37.5-ms slot*)</i> | ≤ 160 ms | <i>P</i> |
| 2.3.3 | <i>Trunking Voice Access Time</i> | ≤ 400 ms | <i>P</i> |
| 2.3.5 | <i>Transmitter Time to Key on a Traffic Channel</i> | Short Channel Form | |
| | <i>RF transmitter time to key on a working channel</i> | ≤ 150.0 ms | <i>P</i> |
| | <i>Encoder transmit time</i> | ≤ 150.0 ms | <i>P</i> |

** Harris base station and subscriber unit products operate with 37.5 ms ISP slot times, and do not support 45 ms ISP slot times.*

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Trunking Interoperability Testing

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|---|---|---|------------------------------------|---|---|---|
| P25-CAB-CAI_Test_REQ- March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability | | DTR-P25CAP081011 | DTRP25CAP-081017-1120312H13 | DTR-P25CAP-081010-13090501-Harris XG-25P | DTR-TIMCO081016 TAIT/TN9400/HARRIS | DTR-TIMCO081016 Tait/Cassidian/Harris |
| Harris Model Class: XGP Software | | Motorola Solutions System Release 7.15 | Harris MASTR V SR10A | EF Johnson 3800 Rel 1.1.1-5 | Tait N9400 Ver 1.40 | Tait Cassidian P25 Core Network EADS P25V11_06.E22 |
| Test Case | Description | | | | | |
| 2.2.1 | Full registration | | | | | |
| 2.2.1.4.1 | <i>Test case 1 - Valid registration</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.1.4.2 | <i>Test case 2 - Denied or refused registration</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.1.4.3 | <i>Test case 3 - Unverified registration</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.2 | Group Voice Call | | | | | |
| 2.2.2.4.1 | <i>Test case 1 - Group call granted</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.2.4.2 | <i>Test case 2 - Group call denied</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |

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|---|---|---|------------------------------------|---|---|---|
| P25-CAB-CAI_Test_REQ- March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability | | DTR-P25CAP081011 | DTRP25CAP-081017-1120312H13 | DTR-P25CAP-081010-13090501-Harris XG-25P | DTR-TIMCO081016 TAIT/TN9400/HARRIS | DTR-TIMCO081016 Tait/Cassidian/Harris |
| Harris Model Class: XGP Software | | Motorola Solutions System Release 7.15 | Harris MASTR V SR10A | EF Johnson 3800 Rel 1.1.1-5 | Tait N9400 Ver 1.40 | Tait Cassidian P25 Core Network EADS P25V11 06.E22 |
| Test Case | Description | | | | | |
| 2.2.2.4.3 | Test case 3 - Group call request queued | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.3 | Unit-to-Unit Voice Call | | | | | |
| 2.2.3.4.1 | Test case 1 – Unit-to-Unit call with target availability check | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.3.4.2 | Test case 2 – Unit-to-Unit call with target availability check denied by target | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.3.4.3 | Test case 3 – Unit-to-Unit call queued with target availability check – traffic channel assignment after target availability check | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |

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|---|--|---|------------------------------------|---|---|---|
| P25-CAB-CAI_Test_REQ- March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability | | DTR-P25CAP081011 | DTRP25CAP-081017-1120312H13 | DTR-P25CAP-081010-13090501-Harris XG-25P | DTR-TIMCO081016 TAIT/TN9400/HARRIS | DTR-TIMCO081016 Tait/Cassidian/Harris |
| Harris Model Class: XGP Software | | Motorola Solutions System Release 7.15 | Harris MASTR V SR10A | EF Johnson 3800 Rel 1.1.1-5 | Tait N9400 Ver 1.40 | Tait Cassidian P25 Core Network EADS P25V11_06 E22 |
| Test Case | Description | | | | | |
| 2.2.3.4.4 | Test case 4 – Unit-to-Unit call queued with target availability check – traffic channel assignment before target availability check | | | | | |
| | <i>Home operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.3.4.5 | Test case 5 – Unit-to-Unit call without target availability check | | | | | |
| | <i>Home operation</i> | <i>N1</i> | <i>P</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.3.4.6 | Test case 6 – Unit-to-Unit call queued without target availability check | | | | | |
| | <i>Home operation</i> | <i>N1</i> | <i>P</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.3.4.7 | Test case 7 – Unit-to-Unit call denied | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.4 | Broadcast Voice Call | | | | | |
| 2.2.4.4.1 | Test case 1 - Broadcast voice call | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |

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|---|--|---|------------------------------------|---|---|---|
| P25-CAB-CAI_Test_REQ- March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability | | DTR-P25CAP081011 | DTRP25CAP-081017-1120312H13 | DTR-P25CAP-081010-13090501-Harris XG-25P | DTR-TIMCO081016 TAIT/TN9400/HARRIS | DTR-TIMCO081016 Tait/Cassidian/Harris |
| Harris Model Class: XGP Software | | Motorola Solutions System Release 7.15 | Harris MASTR V SR10A | EF Johnson 3800 Rel 1.1.1-5 | Tait N9400 Ver 1.40 | Tait Cassidian P25 Core Network EADS P25V11_06 E22 |
| Test Case | Description | | | | | |
| 2.2.5 | Affiliation | | | | | |
| 2.2.5.4.1 | <i>Test case 1 - Radio permitted to affiliate with new group</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.5.4.2 | <i>Test case 2 - Radio denied affiliation to new group</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.6 | Announcement Group Call | | | | | |
| 2.2.6.4.1 | <i>Test case 1 - Collection of talk groups receive call</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.7 | Emergency Alarm | | | | | |
| 2.2.7.4.1 | <i>Test case 1 - Emergency alarm</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |

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Summary Test Report

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| | | | | | | |
|---|--|---|------------------------------------|---|---|---|
| P25-CAB-CAI_Test_REQ- March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability | | DTR-P25CAP081011 | DTRP25CAP-081017-1120312H13 | DTR-P25CAP-081010-13090501-Harris XG-25P | DTR-TIMCO081016 TAIT/TN9400/HARRIS | DTR-TIMCO081016 Tait/Cassidian/Harris |
| Harris Model Class: XGP Software | | Motorola Solutions System Release 7.15 | Harris MASTR V SR10A | EF Johnson 3800 Rel 1.1.1-5 | Tait N9400 Ver 1.40 | Tait Cassidian P25 Core Network EADS P25V11_06 E22 |
| Test Case | Description | | | | | |
| 2.2.8 | Emergency Group Call | | | | | |
| 2.2.8.4.1 | <i>Test case 1 - Emergency call</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.10 | Encryption | | | | | |
| 2.2.10.4.1 | <i>Test case 1 - Call privacy for encrypted call</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| 2.2.11 | Intra-Location Registration Area Roaming | | | | | |
| 2.2.11.4.1 | <i>Test case 1 - Idle radio</i> | | | | | |
| | <i>Home operation</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> |
| | <i>Inter-System operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |
| | <i>Inter-WACN operation</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> | <i>N1</i> |

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Model Class Definition

| Model Class Definition (as of the date of this STR) | | Applied to: <i>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability</i> |
|---|--|--|
| Model Class Name | Product Name, Definition, Unique ID | Installed Options* |
| <u>XGP Software</u> | <u>XL-200P</u> | <u>XLP Rxx</u> |
| | <u>XG-15P 7/8</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-15P VHF</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-15P UHF-H</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75M/M7300 7/8 35W</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75M/M7300 7/8</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75PE 7/8</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>Unity XG-100M</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>Unity XG-100P</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75P 7/8</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-25M 7/8</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-25P 7/8</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75M/M7300 UHF-L</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75M/M7300 UHF-H</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75PE UHF-H</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75P UHF-L</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75P UHF-L 100mW</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-25M UHF-L</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-25P UHF-L</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75M/M7300 VHF 50W</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75M/M7300 VHF 110W</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-75P VHF</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-25M VHF</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>XG-25P VHF</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>P5500 800</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>P5400 800</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>P5400 UHF-L</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>P5500 VHF</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>P5400 VHF</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>P7300 7/8</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>P5400 UHF-H</u> | <u>XGP Rxx, XLP Rxx</u> |
| | <u>P7300 UHF-H</u> | <u>XGP Rxx, XLP Rxx</u> |

* Note: In the installed option designation “XGP Rxx” or “XLP Rxx”, the “xx” denotes the inclusion of any revision number, indicating that all revisions of XGP or XLP software are included in the model class for the associated product.

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| Test Case Result Definitions | |
|--|------------------|
| No Test performed | --- |
| Test Does Not Apply to the Test Object | N/A |
| Test Object Meets Requirements | P (Pass) |
| Test Object Does Not Meet Requirements | F (Fail) |
| Test Object is Not Conclusive | I (Inconclusive) |
| Comments | |
| P1: Device under test passes requirements for both C4FM and WCQPSK | |
| P2: Device under test measured $ \Delta f \leq 12.5$ KHz for time intervals t_1 and t_3 , though not a requirement for transmitter carrier output power rating of ≤ 6 watts per TIA-102.CAAB-C section 3.2.18, last paragraph. | |
| N1: FNE does not support this feature | |

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OMB NO: 1640-0015

EXPIRATION DATE: 07/31/2015 New OMB Date: 04/30/2016 - KRT for DHS OIC

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