

Introduction

The AMC Tester is an automated test suite for testing the hardware-management software in Module Management Controllers (MMC) of an AMC and Carrier Manager and also of the Module Management Controller (MMC) of Front AMC managing a uRTM. This AMC Tester is fully conformant with PICMG Specification AMC.0 R2.0 and PICMG MTCA_4_RC1_1.

Version 1.4.0.4b

Release Date: September 13, 2013

New in this version

1. The total number of Insertion/Extraction cycle of AMC card is reduced by restructuring the interactive test scripts.
2. 7 new test cases are added by combining some old test cases having Insertion/Extraction cycle.
 - i. REQ_3_114b_116_118_119b_120_122_124b_195_COMBINED_TEST
 - ii. REQ_3_162_and_REQ_3_163_COMBINED_TEST
 - iii. REQ_3_22_and_REQ_3_54_COMBINED_TEST
 - iv. REQ_3_36_REQ_3_37_and_REQ_3_101_COMBINED_TEST
 - v. REQ 3.43, 3.44, 3.45 and 3.67 Combined Test
 - vi. REQ 3.57 and REQ 3.58 Combined Test
 - vii. REQ 3.59 and REQ 3.60 Combined Test

Component Versions

1. **AMC Tester : 1.4.0.4b**
 2. **Test Executive : 2.0.0.21**
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Resolved Issues

Issue #	Summary
6394	HPM.1 tests fail with the "Error: IPMI message too short" on receiving NAC-on-Write.
6488	Test # 3.19b test procedure does not describe the waiting time to cover Lamp test duration.
7853	HPM.1 test fails with the Error "Firmware revision of MMC is same as the Earliest Firmware revision of Upgrade Image".
7855	Miniscope decode of Upload Firmware Block command shows malformed field.

Known Issues

Issue #	Summary
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	The "Abort" functionality is not implemented fully. Current behavior: "Abort" prevents the execution of the remaining selected tests after completion of the current test.

456	User defined batch is not saved across session. Current behavior: User defined batch can be created but not saved, if the current instance of the Tester is closed.
490	If the software is installed for "All Users", it is not properly installed for users other than the current user.

Version 1.4.0.1b

Release Date: July 31, 2012

New in this version

1. **Command Line Interface is implemented for running tests.**
2. **It implement the F1 function to view the Test Procedure of a particular test case.**
3. **51 new test cases are added to support the MTCA.4 implementation.**

Component Versions

3. **AMC Tester : 1.4.0.1b**
 4. **Test Executive : 2.0.0.17**
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Known Issues

Issue #	Summary
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	The "Abort" functionality is not implemented fully. Current behavior: "Abort" prevents the execution of the remaining selected tests after completion of the current test.
456	User defined batch is not saved across session. Current behavior: User defined batch can be created but not saved, if the current instance of the Tester is closed.
490	If the software is installed for "All Users", it is not properly installed for users other than the current user.
988	Re-insertion of Carrier/AMC is required after completion of the state transition related test cases (e.g. test 13b, 56, 67b, 162 etc).
989	Auto-activation/deactivation by Shelf/Carrier Manager should be disabled for state transition related test cases (e.g. test 13b, 56, 67b, 162 etc).
1163	The Tester closes silently if the 'Open file dialog' is left open for a long time (typically one minute) after opening one or more saved test results.
1523	AMC tester sometimes crashes if the tester application is closed during the execution of a test.

Version 1.3.0.5

Release Date: December 21, 2011

New in this version

1. The followings test cases are moved from ATCA Tester to the AMC Tester as they are applicable to AMC only :
 - HPM Test 7 Basic HPM Commands (for MMC)
 - HPM Test 8 Complete Firmware Upgrade Scenario (for MMC)
 - HPM Test 9 Failed Firmware Upgrade Scenario (for MMC)
 - HPM Test 10 Test BackupRollback Facility (for MMC)
 - HPM Test 11 Test Firmware Comparison Feature (for MMC)

Component Versions

5. AMC Tester : 1.3.0.5
 6. Test Executive : 2.0.0.16
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Resolved Issues

Issue #	Summary
5800	Test # 3.80b expects de-asserting events from the IPMC sensors after a hard reset.
5801	Test # 3.15b reports overlapped lamp test as an error and contains Typos.
5802	Test # 3.160 sends the FRU Control command before activating the AMC.
5803	Test # 114b,116,119b,120 incorrectly check merging of the AMC sensors into the Carrier SDR repository.
6014	The Tester does not support GetAddressInfo command with response size 10.
6129	Test # 3.89 contains typos.
6130	Test # 3.124b fails to retrieve the Device Locator Record Id when module handle is opened after insertion.
6131	Test # 3.13b & 3.53b do ignore the auto deactivation.

Known Issues

Issue #	Summary
508	Authentication types “MD2” and “MD5” are not supported in the current version.
141	The “Abort” functionality is not implemented fully. Current behavior: “Abort” prevents the execution of the remaining selected tests after completion of the current test.
456	User defined batch is not saved across session. Current behavior: User defined batch can be created but not saved, if the current instance of the Tester is closed.
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1163	The Tester closes silently if the ‘Open file dialog’ is left open for a long time (typically one minute) after opening one or more saved test results.
1523	AMC tester sometimes crashes if the tester application is closed during the execution of a test.

Version 1.3.0.4 Beta

Release Date: November 11, 2011

New in this version

1. The followings test cases are moved from ATCA Tester to the AMC Tester as they are applicable to AMC only :
 - o HPM Test 7 Basic HPM Commands (for MMC)
 - o HPM Test 8 Complete Firmware Upgrade Scenario (for MMC)
 - o HPM Test 9 Failed Firmware Upgrade Scenario (for MMC)
 - o HPM Test 10 Test BackupRollback Facility (for MMC)
 - o HPM Test 11 Test Firmware Comparison Feature (for MMC)

Component Versions

1. **AMC Tester : 1.3.0.4b**
 2. **Test Executive : 2.0.0.16**
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Resolved Issues

Issue #	Summary
5800	Test # 3.80b expects de-asserting events from the IPMC sensors after a hard reset.
5801	Test # 3.15b reports overlapped lamp test as an error and contains Typos.
5802	Test # 3.160 sends the FRU Control command before activating the AMC.
5803	Test # 114b,116,119b,120 strictly check merging of the AMC sensors into the Carrier SDR repository.
6014	The Tester does not support GetAddressInfo command with response size 10.

Known Issues

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1163	The Tester closes silently if the 'Open file dialog' is left open for a long time (typically one minute) after opening one or more saved test results.
1523	AMC tester sometimes crashes if the tester application is closed during the execution of a test.

Version 1.3.0.3

Release Date: May 27, 2009

New in this version

1. The licensing based on License Information File (".lif") is not supported any more. A USB Security Key or a License Server is required for licensing.

Component Versions

1. **AMC Tester : 1.3.0.3**
 2. **Test Executive : 1.5.0.4**
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Resolved Issues

Issue #	Summary
3155	The Tester cannot communicate with an AMC after it is re-inserted.
3156	Test REQ_3_80_ABNORMAL_EVENT_MESSAGE has been renamed as REQ_3_80b_ABNORMAL_EVENT_MESSAGE according to AMC.0 R2.0.
3171a	Test #3.80b fails because tester can not find the event entries (related to temperature threshold change) in SEL even though those were actually generated and present in the SEL.
3171b	Test #3.80b fails because tester does not bring the Carrier IPMC to M4 state after Shelf Manager deactivates the carrier IPMC due to the non-recoverable temperature event.
3157	Test #3.15b wrongly checks lamp test duration against a value of 10 seconds instead of 5 seconds.
3158	Test #3.78b wrongly fails as tester had swapped the parameters 'FRU Device ID' and 'Power type' in Get Power Level command.
3161	Test #3.58b and #3.72b wrongly checks whether the locked bit is set after opening the AMC Handle.

Known Issues

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989	Auto-activation/deactivation by Shelf/Carrier Manager should be disabled for state transition related test cases (e.g. test 13b, 56, 67b, 162 etc).
1163	The Tester closes silently if the 'Open file dialog' is left open for a long time (typically one minute) after opening one or more saved test results.
1523	AMC tester sometimes crashes if the tester application is closed during the execution of a test.

Version 1.2.0.4

Release Date: February 13, 2009

New in this version

1. Support for license based on USB Security Key.
2. Ability to search for text in Test Results.
3. Ability to filter test results based on Text, Test Verdict, Test Start Time and Test End Time.
4. Embedded IPMI commands in Send Messages are displayed in the Test Result windows.

Component Versions

1. **AMC Tester** : 1.2.0.4
 2. **Miniscope** : 2.0.0.5
 7. **Test Executive** : 1.4.0.1
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Version 1.1.0.6

Release Date: October 24, 2008

New in this version

1. Test coverage has been increased significantly by adding 49 new test cases.
2. The tester can get license using the *License Server* (see the AMC Tester User Guide for more details).
3. The Test Events in the “Current Test Result” window are displayed using the same hierarchical organization that is used in the “Test Explorer” window. If a test case is executed multiple times, the results of all the runs of that test case are grouped together. Each run is identified as “Run #<Run Number>.”

Component Versions

1. **AMC Tester** : 1.1.0.6
2. **Miniscope** : 2.0.0.3
3. **Test Executive** : 1.3.0.1

Resolved Issues

Issue #	Summary
1585	The tester sometimes misses some FRU Hot Swap Events in the SEL.
1404	FRU Information is not restored properly.
1393	AMC Tester crashes if user keeps checking and un-checking the protocol analyzer during the execution of a test.
1369	Syntax Error of type: "Error: global name 'escriptor' is not defined"
1191	Syntax Error of type: "Error: global name 'checkUpperThresholdComparison' is not defined"
1192	Syntax Error of type: "Error: global name 'ipmiAddress' is not defined"

Known Issues

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988	Re-insertion of Carrier/AMC is required after completion of the state transition related test cases (e.g. test 13b, 56, 67b, 162 etc).
989	Auto-activation/deactivation by Shelf/Carrier Manager should be disabled for state transition related test cases (e.g. test 13b, 56, 67b, 162 etc).
1163	The Tester closes silently if the 'Open file dialog' is left open for a long time (typically one minute) after opening one or more saved test results.
1523	AMC tester sometimes crashes if the tester application is closed during the execution of a test.

Version 1.0.0.5

Release Date: August 12, 2008

New in this version

This is a maintenance version and does not contain any new feature over v1.0.0.2.

Component Versions

1. AMC Tester : 1.0.0.5
2. Miniscope : 2.0.0.2

Resolved Issues

Issue #	Summary
1154	Test 194, 195, 13b: Syntax Error of type: 'NoneType' object has no attribute 'dumpInfo'.
1155	All tests fail if the FRU Inventory size is 0 and report generation is on.
1126	Sometimes tests complete without any verdict.
1140	AMC Tester uninstaller does not uninstall the software properly. This causes problems in the next installation.
958	All open sessions (IPMI sessions) are not closed after test completion.

Known Issues

Issue #	Summary
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456	User defined batch is not saved across session. Current behavior: User defined batch can be created but not saved, if the current instance of the Tester is closed.
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988	Re-insertion of Carrier/AMC is required after completion of the state transition related test cases (e.g. test 13b, 56, 67b, 162 etc).
989	Auto-activation/deactivation by Shelf/Carrier Manager should be disabled for state transition related test cases (e.g. test 13b, 56, 67b, 162 etc).
1163	The Tester closes silently if the 'Open file dialog' is left open for a long time (typically one minute)

after opening one or more saved test results.

Version 1.0.0.2

Release Date: June 16, 2008

Component Versions

1. **AMC Tester** : 1.0.0.2
2. **Miniscope** : 2.0.0.2

Known Issues

Issue #	Summary
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	The "Abort" functionality is not implemented properly. Current behavior: "Abort" prevents the execution of the remaining selected tests after completion of the current test.
456	User defined batch is not being saved across session. Current behavior: User defined batch can be created but will not be saved if the current instance of the Tester is closed.
490	If the software is installed for "All Users", it is not properly installed for users other than the current user.
988	Re-insertion of Carrier/AMC is required after completion of few test cases (e.g. test 13b, 56, 67b, 162 etc).
989	Auto-activation/deactivation by Shelf/Carrier Manager should be disabled for few test cases (e.g. test 13b, 56, 67b, 162 etc).