

## Introduction

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The ATCA Tester is an automated test suite for testing the platform management software in different types of ATCA building blocks, such as Shelf Manager, Carrier Manager and IPMC. The ATCA Tester is fully conformant with PICMG Specification PICMG® 3.0 Revision 3.0.

## Version 3.1.0.4

**Release Date:** December 9, 2011

## Component Versions

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- 1. **ATCA Tester** : **3.1.0.4**
- 2. **Test Executive** : **2.0.0.16**

## New in this release

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

## Resolved Issues

Issue #	Summary
5758	Tests # 3.103,3.106,3.107, 3.109,3.110,3.111,3.113,3.124,3.125,3.126,3.128,3.129,3.141 do ignore the Auto-Deactivations flag.
5759	Test # 3.154 contains typos and logical errors.
5760	Test # 3.179 mixes up FRU Control Cold Reset with IPMC Cold Reset.
5761	Test # 3.235 incorrectly determines the LED's local control state & local color.
5762	Test # 3.765 expects incorrect completion code (CB instead of C1).
5763	Test # 3.83 does not report error for site number 0 (unknown site number).
5765	Test # 3.264 does not report error for site number 0 (unknown site number).
5766	Test # 3.274 incorrectly detects the presence of the product info area of RTM.
5767	Test # 3.400 does not get events after triggering the Set Event Receiver command.
5769	Test # 3.776 fails at waiting for event from IPMB-0 sensor.

5771	Test # 3.712 fails due to invalid Set Fan Level request
5772	Test # 3.713 does not report error for site number 0 (unknown site number).
5773	Test # 3.714 incorrectly sends Get Fan Policy command to IPMC instead of SHMC.
5774	Tests # 3.717, 3.718, 3.720 contain typos.
5775	Test # 3.752 incorrectly sends Set Fan Policy command to IPMC instead of SHMC.
5776	Test # 3.244 contains logical errors.
5778	Tests # 3.413 & 3.416 incorrectly parse the board manufacturing date.
5781	Test # 3.750 contains typos and logical errors.
5792	Test # 3.504 incorrectly issued Get Port State commands for Base channel instead of Fabric & Update channel.
5993	Test # 3.355 incorrectly treats 0xF0 as "Invalid Entity ID" for Active Shelf Manager.
5995	HPM.1 Tests can't handle "NAK ON Write" completion code in first send message response when DUT becomes inaccessible.
5797	HPM.1 Test # 2,3,4,5,6 incorrectly compare the HPM.1 image capabilities with the IPMC global capabilities.
6081	Test # 177 does not activate the FRU before sending the Fru Control command.
6082	Test # 35 does not request the operator to change the configuration of the IPMC but it waits for that event.
6084	Test # "Sensor Scanning Disable Bit" does not take into consideration the sensor's scanning bit.

## Known Issues

Issue #	Summary
5295	The tester may crash if several Network Tests are selected to run together.
5294	If log generation is enabled in the Setup dialog, test may fail with the error "Bad file descriptor" after a large number (more than 100) of tests are run.
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	"Abort" is not implemented properly. <b>Current behavior:</b> "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. <b>Current behavior:</b> 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.

## Version 3.1.0.3 Beta

**Beta Release Date:** October 20, 2011

### Component Versions

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1. **ATCA Tester** : **3.1.0.3 Beta**
2. **Test Executive** : **2.0.0.16**

### New in this release

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

### Resolved Issues

Issue #	Summary
5758	Tests # 3.106,3.107,3.110,3.111.3.113,3.124,3.125,3.126,3.128,3.129,3.141 do ignore the Auto-Deactivations flag.
5759	Test # 3.154 contains typos and logical errors.
5760	Test # 3.179 mixes up FRU Control Cold Reset with IPMC Cold Reset.
5761	Test # 3.235 wrongly determines the LED's local control state & local color.
5762	Test # 3.765 expects wrong completion code (CB instead of C1).
5763	Test # 3.83 does not report error for site number 0 (unknown site number).
5764	Tests # 3.103,3.109 do ignore Auto-Deactivation flag.
5765	Test # 3.264 does not report error for site number 0 (unknown site number).
5766	Test # 3.274 wrongly detect the presence of the product info area of RTM.
5767	Test # 3.400 does not get events after triggering the Set Event Receiver command.
5769	Test # 3.776 fails at waiting for event from IPMB-0 sensor.
5771	Test # 3.712 fails due to invalid Set Fan Level request
5772	Test # 3.713 does not report error for site number 0 (unknown site number).
5773	Test # 3.714 incorrectly sends Get Fan Policy command to IPMC instead of SHMC.
5774	Tests # 3.717, 3.718, 3.720 contain typos.
5775	Test # 3.752 incorrectly sends Set Fan Policy command to IPMC instead of SHMC.

5776	Test # 3.244 contains logical errors.
5778	Tests # 3.413 & 3.416 incorrectly parse the board manufacturing date.
5781	Test # 3.750 contains typos and logical errors.
5792	Test # 3.504 incorrectly issued Get Port State commands for Base channel instead of Fabric & Update channel.
5993	Test # 3.355 incorrectly treats 0xF0 as "Invalid Entity ID" for Active Shelf Manager.
5798	MMC HPM.1 Tests (HPM1 tests # 7,8,9,10,11) sent command to the Carrier IPMC instead of MMC.
5995	HPM.1 Tests can't handle "NAK ON Write" completion code in first send message response when DUT becomes inaccessible.

## Known Issues

Issue #	Summary
5295	The tester may crash if several Network Tests are selected to run together.
5294	If log generation is enabled in the Setup dialog, test may fail with the error "Bad file descriptor" after a large number (more than 100) of tests are run.
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	"Abort" is not implemented properly. <b>Current behavior:</b> "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. <b>Current behavior:</b> 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.

## Version 3.1.0.2

**Beta Release Date:** May 27, 2011

## Component Versions

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1. ATCA Tester : 3.1.0.2
2. Test Executive : 2.0.0.16

## New in this release

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1. 10 new test cases added.
  - a. Watchdog Timer Commands Support
  - b. Board E-Keying

- c. SDR Requirements
- d. BLUE LED Blinking
- e. Sensor Commands And SDR Consistency
- f. Sensor Event Messages Disable Bit
- g. Sensor Events Mask
- h. Sensor Scanning Disable Bit
- i. Threshold Based Sensors
- j. Backplane E-Keying

## Resolved Issues

Issue #	Summary
5499	Test #3.754, 3.746 and 3.747 expect events from the sensors whose event generation is not enabled. These tests don't restore the sensor threshold after test execution.

## Known Issues

Issue #	Summary
5295	The tester may crash if several Network Tests are selected to run together.
5294	If log generation is enabled in the Setup dialog, test may fail with the error "Bad file descriptor" after a large number (more than 100) of tests are run.
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	"Abort" is not implemented properly. <b>Current behavior:</b> "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. <b>Current behavior:</b> 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.

## Version 3.0.0.20

**Beta Release Date:** March 8, 2011

## Component Versions

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- 1. ATCA Tester : 3.0.0.20
- 2. Test Executive : 2.0.0.16

## New in this release

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1. The Setup dialog allows the user to set the timeout for a response to an IPMI command. The timeout can be increased if the network connection between the tester and shelf manager is slow.

## Resolved Issues

Issue #	Summary
5291	Test #3,349 causes other tests to fail if they are selected to run together.
5292	Test #3.234 and #3.235 pass unconditionally irrespective of user input.
5300	Test #3,236 wrongly assumes that the LED state cannot be changed during Lamp test.
5301	Test #3.240 does not send Set FRU LED State command with a non-supported LED color ID for all LEDs (Led ID FFh).
5302	Test #3.264 sends Get Address Info command with wrong Site Type and Site Number.
5303	Test #3.386 expects the Entity Instance of FRU#0 as <i>60h + Site Number</i> while it should be <i>60h</i> .
5304	Test #3.775 wrongly tests the FRU Information of an IPMC other than the Shelf Manager while it should test the FRU Information of the Shelf Manager only.

## Known Issues

Issue #	Summary
5295	The tester may crash if several Network Tests are selected to run together.
5294	If log generation is enabled in the Setup dialog, test may fail with the error "Bad file descriptor" after a large number (more than 100) of tests are run.
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	"Abort" is not implemented properly. <b>Current behavior:</b> "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. <b>Current behavior:</b> 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.

## Version 3.0.0.18

Beta Release Date: August 31, 2010

## Component Versions

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1. ATCA Tester : 3.0.0.18
2. Test Executive : 2.0.0.14

## New in this release

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1. This version resolved all the reported issues as described below.

## Resolved Issues

Issue #	Summary
4901	Tests #3.321.3 and #3.321.7 can not parse SEL Entries properly.
4902	Test #3.333 expects 00h Completion Code of the FRU Control command even when the proper Privilege Level is not set.
4903	Test #3.775 does not check the Record Type ID of the PICMG records to be C0h.
4904	Test #3.771 checks Cut-off Telco Alarm even when it is not implemented.
4905	Test #3.685 doe not validate the different combination of 'Power Level' and 'Set Present Levels to Desired levels' in case of Set Power Level command.
4906	Test #3.679 fails in violation of a 'may' requirement.
4907	Test #3.611 tries to isolate both the IPMBs at the same time and expects a 00h Completion Code in response of Set IPMB State command.
4908	Test #3.609 checks the Get IPMB Link Info command even when IPMB-0 Hub is not implemented.
4909	Test #3.184 exits immediately after sending Cold Reset command which may effect other tests.
4910	Test #3.242 wrongly checks override states of supported LEDs.
4911	Test #3.223 expects the effect of Set FRU LED State command even when the command is not successful.
4912	Tests #3.121, #3.122 do not check Power Level before sending the Set FRU Activation command.
4913	Test #3.129 checks for M5 to M4 transition after asking the Operator to open the Hot Swap Handle Switch.
4914	Tests #3.234, 3.235 and #3.236 do not check the LED States properly.
4915	Test #3.679 fails if the Early Power Draw Level is zero when the FRU is not in Early Power Draw Levels state.
4916	Test #3.406 expects a FRU in M1 state when the FRU should be in M4 state.
4917	Tests #3.607 and #3.608 can not validate Get IPMB Link Info command properly.
4918	Test #3.609 can not validate Physical IPMB-0 Status Change Event Message properly.
4919	Test #3.741 fails in violation of a "should" requirement.
4920	Tests #3.744, #3.745 and #3.749 can not validate Temperature event message properly.
4921	Test #3.768 can not validate Telco Alarm Event properly.
4922	Tests #3.768, #3.769 and #3.770 have syntax error in the python test scripts.
4923	Test #3.777 does not consider IPMI or OEM Entities for Entity ID validation.
4924	Test #3.430 has been removed from the Tester as considered as non-testable.
4925	Tests #3.65 and #3.69 send Get Address Info command to the target IPMC when it should be sent to the Shelf Manager.

## Known Issues

Issue #	Summary
508	Authentication types “MD2” and “MD5” are not supported in the current version.
141	“Abort” is not implemented properly. <b>Current behavior:</b> “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. <b>Current behavior:</b> 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.

## Version 3.0.0.17

Beta Release Date: July 14, 2010

## Component Versions

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1. **ATCA Tester** : **3.0.0.17**
2. **Test Executive** : **2.0.0.12**

## New in this release

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1. This version resolved all issues found in beta testing.

## Resolved Issues

Issue #	Summary
4235	Tester may crash if Test # 3.312, Test # 3.313 and Test # 3.326 are selected to run together. Workaround is to run these tests separately.
4238	Test # 3.313 wrongly fails with a “Transport Error” if an IP address other than the Shelf Manager's current IP address is provided during the test execution.
4438	Test #3.296 modifies the LAN configuration parameters such as IP Address, Subnet Mask and Default Gateway Address with the values retrieved from Shelf Manager IP Connection Record. So the tester may loose communication with the Shelf after running this test if the retrieved LAN configuration parameters differ from the current parameters.
4738	Test #3.177 tries to send FRU Control (Warm Reset) command without checking the support of Warm Reset.
4739	Test #3.774 has been moved to Shelf Test Category from FRU Test Category as only Shelf Manager supports Set Privilege Level command.



4740	All Interactive HPM Tests continue even after operator opts to skip the Test.
4741	HPM Test #2 does not wait sufficient time for Upgrade Firmware Block response.
4743	Test #3.400 sends Get Event Receiver command to the Shelf Manager instead of the target IPMC.
4745	Test #3.413 wrongly assumes that the Product Information retrieved from Get Device ID command will match the Product Information in the FRU's Product Info Area.
4746	Test #3.500, #3.502 is included in IPMC Test Category instead of Shelf Test Category.
4747	Test #3.381, #3.382, #3.383, #3.384 retrieve Device Locator Records from Shelf Manager instead of the IPMC(s) found in the Address Table.
4748	Test #3.399 expects Completion Code 00h for Platform Event Message command while this command may not succeed.
4749	Test #3.141 does not wait for sufficient time for state transition after sending the Set FRU Activation Policy command.
4750	Test #3.148, #3.183, #3.668, #3.678, #3.680, #3.684 do not check for required initial conditions to continue the tests.
4752	Test #3.103 does not wait sufficient time for M4-M5 state transition..
4755	Test #3.610 wrongly expects Completion Code 00h for Set IPMB State command even when this command is sent to disable both the IPMB Buses.
4756	Test #3.613 fails on violation of a Should requirement.
4762	Test #3.304 freezes after it changes the Shelf Manager's IP Address.
4768	Test #3.101, #3.421, #3.422 try to retrieve FRU Device Locator records of absent FRUs.

## Known Issues

Issue #	Summary
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	"Abort" is not implemented properly. <b>Current behavior:</b> "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. <b>Current behavior:</b> 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.

## Version 3.0.0.13

Beta Release Date: May 19, 2010

## Component Versions

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1. ATCA Tester : 3.0.0.14

**2. Test Executive : 2.0.0.11**

**New in this release**

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1. This version resolved all issues found in beta testing.
2. Tester can be launched without license for viewing saved test results or test procedures. No test can be run if the tester is launched without license.

**Resolved Issues**

Issue #	Summary
4368	Test # 3.8 incorrectly uses same sequence number in the Send Message header and in the Encapsulated Get Device ID command in the payload. Hence it fails to test if the Shelf Manager under test uses the sequence number in the encapsulated command, and not the sequence number in the Send Message header, in its responses to the Send Message.
4369	Test # 3.40 does not validate the proper range of Hardware Addresses that can be used in Address Table.
4370	Test execution freezes if a test encounters an error and "Test Stop Level" is not set to "None" in testbed setup dialog.
4374	Test #3.44 test does not verify the whole applicable range 41h-50h for Front-Board.
4375	Test #3.61 wrongly assumes that all entries with same Hardware Address are present one after another in Address Table.
4377	Test #3.70 can not handle multiple RTM entries with different Hardware Addresses in Address Table.
4378	Test #3.321.1 wrongly assumes that Current Power State filed in Get Chassis Status response must be 02h.
4379	Test #3.381, #3.382, #3.383, #3.384 send Get Address Info request with wrong parameters. These tests also send Get Device Locator Record ID request to wrong IPMC.
4380	Test #3.399 expects events from sensors without checking their event generation conditions. It does not test the mandatory command Platform Event Message.
4381	Test #3.401 wrongly fails if the SEL is empty.
4384	The tester freezes after FRU tests sequence if run against a Front Blade with an AMC. It happens if both IPMC and FRU test sequences are selected.
4385	The tester freezes within FRU tests sequence if run against a Front Blade with an intelligent RTM.
4386	The tester does not provide any tool, that can be used without license, to view the saved test results.
4388	Decode and Hex-dump of IPMI messages can not be displayed if the saved test results contain more than 10 million messages.
4389	The tester freezes during the execution of Test #3.184.
4390	Test #3.702, #3.704 and Test #3.713 wrongly consider the Get Fan Level command as mandatory for IPMC.
4393	Test #3.764 wrongly considers Get Telco Alarm Capability command as mandatory for IPMC.
4394	Test #3.183 wrongly skips if FRU supports Warm Reset command.
4395	Test #3.764 wrongly assumes that the Get Telco Alarm Location command is mandatory for IPMC.
4396	Test #3.38 can not verify the uniqueness of the Hardware Addresses of the Front-Blades.

4397	Test #3.101 tries to retrieve Device Locator Record of an absent AMC.
4398	Test #3.415 tries to retrieve Shelf FRU Information from a IPMC with FRU Device ID 1 without checking whether the IPMC represents Shelf FRU Information.
4399	Test #3.421 and #3.422 try to retrieve FRU Information of an absent AMC.
4403	Test #3.665 is related to Shelf Management requirement but placed in IPMC test category.
4404	Test #3.763, #3.766, #3.767, #3.768, #3.769, #3.770, #3.776 try to verify Telco Alarm related commands without checking that the target IPMC implements Telco Alarm.
4234	Test # 3.353 is a non-interactive test but marked as interactive in the "Test Explorer Window".

## Known Issues

Issue #	Summary
4235	Tester may crash if Test # 3.312, Test # 3.313 and Test # 3.326 are selected to run together. Workaround is to run these tests separately.
4238	Test # 3.313 wrongly fails with a "Transport Error" if an IP address other than the Shelf Manager's current IP address is provided during the test execution.
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	"Abort" is not implemented properly. <b>Current behavior:</b> "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. <b>Current behavior:</b> 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.
4438	Test #3.296 modifies the LAN configuration parameters such as IP Address, Subnet Mask and Default Gateway Address with the values retrieved from Shelf Manager IP Connection Record. So the tester may loose communication with the Shelf after running this test if the retrieved LAN configuration parameters differ from the current parameters.

## Version 3.0.0.11

Beta Release Date: April 12, 2010

## Component Versions

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1. ATCA Tester : 3.0.0.11
2. Test Executive : 2.0.0.9

## New in this release

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1. HPM.1 Tests. 11 test cases have been added.
2. Context sensitive help. Selecting a test in Test Explorer window and pressing F1 shows the test

procedure of the selected test in a browser window.

3. Command Line Interface(CLI) for automated and unattended test execution. It can be used to run tests from a remote system.

## Known Issues

Issue #	Summary
4235	Tester may crash if Test # 3.312, Test # 3.313 and Test # 3.326 are selected to run together. Workaround is to run these tests separately.
4238	Test # 3.313 wrongly fails with a "Transport Error" if an IP address other than the Shelf Manager's current IP address is provided during the test execution.
4234	Test # 3.353 is a non-interactive test but marked as interactive in the "Test Explorer Window".
4170	Test # 3.8 incorrectly uses same sequence number in the Send Message header and in the Encapsulated Get Device ID command in the payload. Hence it fails to test if the Shelf Manager under test uses the sequence number in the encapsulated command, and not the sequence number in the Send Message header, in its responses to the Send Message.
4171	Test # 3.40 does not validate the proper range of Hardware Addresses that can be used in Address Table.
4172	Test execution hangs if a test encounters an error and "Test Stop Level" is not set to "None" in testbed setup dialog.
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	"Abort" is not implemented properly. <b>Current behavior:</b> "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. <b>Current behavior:</b> 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.

## Version 3.0.0.4 Beta

Beta Release Date: February 15, 2010

## Component Versions

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|-------------------|----------------|
| 1. ATCA Tester    | : 3.0.0.4 Beta |
| 2. Test Executive | : 1.6.0.2      |

## New in this release

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This is the first release of the ATCA Tester for the Windows Operating System, based on the Test Procedure Manual (TPM) Version 3.0.

## Known Issues

Issue #	Summary
508	Authentication types "MD2" and "MD5" are not supported in the current version.
141	"Abort" is not implemented properly. <b>Current behavior:</b> "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. <b>Current behavior:</b> 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.