

# Automated Test Execution Framework (ATEF)

## PTC - For internal use only

<Customer details / Information>

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### Introduction

This document contains some hints you can use when setting up the Integrity Test Execution Framework. The framework has been established long time back, and PTC ships two sample code sets with the adapter, one for HP Quick Test Pro and another for iTKO LISA.

## Objective

The objective is to implement the Integrity Test Execution Framework together with LISA. Because we do not have a LISA server running, we expect to get an error, and return a valid error message then.

### **Process Flow**

See KB Article: 11891

An adapter for iTKO Lisa has been developed as an extension to the PTC Test Execution Framework. The Adapter specification follows the guidelines set forth by the PTC Test Execution Framework for Adapters.



The 'Test Case' Item type from the PTC ALM Solution will contain a 1 to 1 mapping with a Lisa test case. Upon creation of a 'Test Session' in PTC Integrity, necessary objects (i.e. creation of the Test Results Change Package) are initialized by the Automated Test Execution Framework (ATEF). Subsequently, when a 'Test Session' is toggled to a state of 'In Testing' or 'Scheduled', the ATEF will remotely invoke Lisa, passing the necessary parameters to run the test.

Test Execution Server – Resides on the 'Test Session' and specifies which workstation/server the Lisa test case will be executed on

Test Case ID – Resides on the 'Test Case' and contains the absolute path name to the Lisa test case on the Test Execution Server

Test Configuration File – Resides on the 'Test Case' and contains the absolute path name to the Test Configuration file on the Test Execution Server necessary to execute a Lisa test case

Staging Document File – Resides on the 'Test Case' and contains the absolute path name to the Staging Document file on the Test Execution Server necessary to execute a Lisa test case



On invoking a Lisa test case, the Lisa Adaptor will wait for the test case to finish and return the results of the execution in XML format.

The Adaptor then parses the XML results and updates the Test Session Test Results using ATEF. The Adaptor will also attach the full XML result of the invocation to the 'Test Session' so that it can be further analyzed.

### **Pre Requisites**

#### Documentation you should read

Ref	Documentation
Still current pdf, also for Release 10.4	IntegrityTestExecutionAdapter_2009.pdf
YouTube	MKS Integrity - MKS Test with QTP Automated Testing
Training Course Material	Integrity_10_Test_Management_Administration_Presentation.ppt
Training Course Material	Integrity_10_Test_Management_Administration_Exercises.doc (Exercise 13)

#### **Test Environment**

My test environment consists of those three locally installed applications. It was my intention to keep it simple.

- Integrity Server 10.3, locally installed
- Integrity Client 10.3, locally installed
- Integrity Agent 10.3, locally installed

#### Some Code Notes

- Although you can download the PTCtmapi.jar as part of MED-60962-CD-103\_F000\_Integrity-10-3-Test-Execution-API (size 19k), you should keep the actual version as shipped with the agent, which has a size of 24k
- In default, the LISA code resides in a subfolder named samples. Because I tried to be as close to a real implementation, I removed this path part, so my LISA code is stored in <Agent10>\data\java\classes\com\mks\tm\api\spi.
- The two java classes (AbstractSessionAdapter, LISASessionAdapter) need to be adapted accordingly.
- The java compiler you are using (javac) should have the same version as your Integrity java.exe, in my case it's the:

D:\IntegrityProgram\Agent10\jre\bin>java -version java version "1.6.0\_27" Java(TM) SE Runtime Environment (build 1.6.0\_27-b07) Java HotSpot(TM) 64-Bit Server VM (build 20.2-b06, mixed mode)

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#### **Configuration Files**

#### Agent10\config\properties\ agent.properties

I decided to switch the "Deploy" feature of (false), but left the test management parameter on (true).

```
# Enable support for MKS Deploy deploy request processing on the Agent.
mksagent.startup.sd=false
# Enable support for MKS Test Management test session execution on the Agent.
mksagent.startup.tm=true
#
# # SMTP Server configuration.
```

#### Agent10\config\properties\ tm.properties

Within your trigger parameters, you will specify the 3<sup>rd</sup> part of the names below, the "iTKO-LISA-4.5". This would allow you to have also another trigger for another LISA version, allowing you to execute probably also another java class. It seems to be very flexible!

```
# LISASessionAdapter.testConfigPathFieldName
# The required name of the field on the test case items which provides the
# absolute path to the LISA test configuration file on the LISA server file
# system.
#
tm.adapter.iTKO-LISA-4.5.class=com.mks.tm.api.spi.LISASessionAdapter
tm.adapter.iTKO-LISA-4.5.apiSession.defaultUser=veckardt
tm.adapter.iTKO-LISA-4.5.apiSession.defaultPassword=password
```

#### Agent10\config\properties\ security.properties

I decided to enable the 'simple Idap' version, which is based on flat file only.

```
Solset
# mks.security.policy.scheme.default=ntss_clear
# which will allow win32 clients to use single sign(
# browsers) to authenticate using nt user/passwords
mks.security.policy.scheme.default=flat_clear
```

And added the two files under "<agent>\data" folder:

group.properties

password.properties

When the agent starts, it will inform about the authentication in the following way (agent.log):

12 1111111	[monigene] minutino (3), bite down compressed
10 INFO	[STDOUT] Log4J configuration from "D: IntegrityProgram Agent10 mks \conf log4j xml" will be reloaded every 60 seconds.
10 INFO	[STDOUT] Creating log listener.
12 INFO	[STDOUT] Loading Integrity Agent properties.
14 INFO	[STDOUT] Loading logger configuration from "D: IntegrityProgram Agent10 coning properties logger.properties".
18 INFO	[mks.Agent] GENERAL(0): Stacktrace watchdog using watch file: D:\IntegrityProgram\Agent10\data\runstacktrace with interval 30 seconds
27 INFO	[mks.Agent] GENERAL(0): Groups will be taken from flatfile by default
36 INFO	[mks[Agent] GENERAL(5): D:\IntegrityProgram\Agent10\data\password.properties has been loaded successfully
40 INFO	[mks.Agent] GENERAL(5): D:\IntegrityProgram\Agent10\data\group.properties has been loaded successfully
90 INFO	[mks.Agent] CENERAL(0): Starting service "tm".
91 INFO	[mks.Agent] TM(5): Starting test execution services.
92 INFO	[mks.Agent] TM(5): Adapter "iTKO-LISA-4.5" available.
92 INFO	[mks.Agent] TM(0): Deleting contents of temporary directory tree "D:\IntegrityProgram\Agent10\mks\data\tm\temp".
30 INFO	[mks.Agent] GENERAL(0): Integrity Agent listening on clear port *:9101.
32 INFO	[mks.Agent] GENERAL(0): Integrity Agent (Build: 10.3.0.3238) started in 301 ms.
32 INFO	Imbe Agentl (FNFPAI (A). Service Pack Policy Properties.

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# Setup

#### **Test Tool Definition**

This is a pick list only, so no other fields to set up.

Server - veckardt@localhost:7001	Show fields	containing 🔎 test tool	) tha	at are			_	
🕀 퉬 ViewSet Distribution	Position	1	Name		т	ype	De	escription
🕀 🍌 Configuration	126	ALM_Test Tool			pick		A pick li	st definin
🕀 🌗 Server Diagnostics	G					-		
🕀 퉬 Permissions	P1	C Edit Field						
⊖} Workflows and Documents & Users & Groups	r E	Name: ALM_Test Tool Display Name: Test Tool	bl					
		Description Position	Values	Relevance	Editability	Rules	Usage	History
<mark></mark> Projects ⇔ States		Data Type: Pick			<b>*</b> ]			
		Allow Multiple Val	ues					-
Triggers		Set Default Value					Ŧ	
Change Package Types		Picks						
Test Verdicts		HP Quick Test Profes iTKO Lisa (1)	ssional ((	QTP) (0)				

### **Trigger Definition**

Take the existing trigger file from MKS\_ALM, it's the file AutomatedTestSession.js. This script executes the agent procedure.

PTC Edit Trigger											
	Rub Name										
Name: VE: Automa	tedTestSession.js										
Description Posit	ion Type Rule Schedule Query Trigger Assignment References History										
Files MKS_ALM/Au	Files MKS_ALM/AutomatedTestSession.js										
🕅 Pre 🔍	Pre Post Browse										
Description Para	ameters										
Agent Hostname	localhost										
Agent Port	9101										
Agent User	veckardt										
Agent Password	password										
Adapter Name	ITKO-LISA-4.5										

I am not yet sure where the Adapter name comes from, needs to be reviewed. I think it relates to the entries in the **tm.properties** 

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#### Important Trigger Part

```
// lookup an agent bean
var agent = server.getAgentBean(params.getParameter("Agent Hostname"),
    params.getIntParameter("Agent Port", 9101),
    params.getParameter("Agent User"),
    params.getParameter("Agent Password"));
// establish a socket connection between the server and the agent
agent.connect();
// if the agent is updating we shouldn't try to run any new tests
log("isUpdating() returned: " + agent.isUpdating());
// start the test session run on the agent
log("about to runTestSession " + delta.getIssueID());
agent.runTestSession(delta.getIssueID(), params.getParameter("Adapter Name"),
    false, // not a secure API session
    null); // no adapter properties to pass through
log("back from runTestSession " + delta.getIssueID());
```

#### **Trigger Rule**

Name:	VE: A	utomated	TestSes	sion.js						
Descri	ption	Position	Туре	Rule	Schedule	Query	Trigger	Assignment	References	Hist
-an	d Type State State	e = ALM_T e <> Stat e[New Val	est Ses e[New \ ue] = A	sion /alue] LM_In	Testing					

#### **Test Session Properties**

Add the following 4 properties within the Test Session Type, to specify the Field Names you are going to use in the test case later:

Type [ALM_Test Session]	- veckardt@localhost:7001	Intelligence and instances of it	to Type to designate the cast of th
Name: ALM_Test Session			
ALM_Test Session	Show properties containing $\rho$		
Attributes	Name		Value
Properties	LISASessionAdapter.baseLISAURLFieldName	base	eLISAURL
Change Packages	LISASessionAdapter.stagingDocPathFieldName	stag	jingDocPath
Constraints	LISASessionAdapter.testCasePathFieldName	test	CasePath
Document Model	LISASessionAdapter.testConfigPathFieldName	test	ConfigPath
# Tost Management	MKS DO model mathworks simulation Simulation	temAttachmentField Atta	chmente

After setting it up I figured out that the 3 paths are rather a path + a file name. So it seems to be better to rename the fields to ... FileFieldName, instead of PathFiledName.



#### **Command to Compile the LISA Classes**

I decided to use the path "spi" directly, just to remove the "sample" from it. I was also willing to make sure that my own code gets executed. It's important to mention that the LISA classes are also part of the PTCagent.jar file, so you should definitely put your code into some other directory structure.

Make sure that you compile your classes with the correct java version, in my case Integrity uses the version 1.6, so I took for the Java compiler (javac) exactly the same.

cd com\mks\tm\api\spi

"C:\Program Files\Java\jdk1.6.0\_27\bin\javac" -classpath

D:\IntegrityProgram\IntegrityClient10\Iib\MKSapi.jar;D:\IntegrityProgram\Agent10\MKS\Iib\MKSagent.jar;D:\IntegrityProgram\Agent10\MKS\Iib\MKStmapi.jar

"C:\Program Files\Java\jdk1.6.0 27\bin\javac" -classpath

D:\IntegrityProgram\IntegrityClient10\lib\MKSapi.jar;D:\IntegrityProgram\Agent10\MKS\lib\MKSagent.jar;D:\IntegrityProgram\Agent10\MKS\lib\MKStmapi.jar;.;D:\IntegrityProgram\Agent10\data\java\classes LISASessionAdapter.java

#### **Runtime Data**

#### **Setup for Test Session**

In your Test Session, please enter the test tool. The test tool comes from a pick list, so no other logic behind. If you like to execute different triggers for each test application, you shall add this criteria (TestTool=iTKO LISA) within the trigger rule.

#### Planned Start

I haven't used the planned start date yet, not sure how to use it exactly for scheduling. Does LISA handle this automatically? Or the Agent?

operties Co	onfiguration	Parameters	Metrics	Relationships	Atta	chments	√ Te	st Results	Time Er	ntries	Workflow	History		
1-15	764 W	al scatter			1						1 3		2	
est Ses	sion													
Su	ımmary 🚦	≠7												
	Project	ALM_Proje	cts/Relea	ise1	•									
Test Of	bjective	Veekly regress	sion testin	ig results (617)				•						
	State	🐊 ALM_In Te	sting		•	(Testing	)							
Assign	ed User				Ŧ				F	riority	- M	edium	•	
)etails														
	Effort		•	1					Sessio	n Type	Aut	omated	•	
Planned Sta	art Date							Pla	nned En	d Date				•

hase Open			
27.08.2013 22:24:28		Summariv	Text
1_Test Case		Sommary	During test @ ALM
	hase Open 27.08.2013 22:24:28 Type M_Test Case	hase Open 27.08.2013 22:24:28 Type M_Test Case	hase Open 27.08.2013 22:24:28 Type Summary M_Test Case

#### **Setup for Test Case**

Within the Test Case, we are using the 4 parameters to specify the LISA connection and the script details. I personally would like to move some of them up at least one level, perhaps a default value somewhere else would be better than having the http address right here. Anyway, it works like this.

reated by v lodified by v	Case: 548 eckardt on 25 reckardt on 27	.06.2012 .08.2013	<u>15:17:49</u> 22:24:24								
Properties	Test Steps	Traces	✓ Relationships	Attachments	Advanced	✓ Test Results	✓ Branche	s Labels	History		
- we ar	Sent 1	200	Marken Cal	R. m		RACA N	1 3		Tel.		
1) This is	an individual	Co	mponent Test		👻 conta	ined in Test Do	ument 539				
Text (	Descrip	tion)				hal diasa adam da					
	During test	ing, the	e watch must be	synchroniz	ed to a glo	bai time standa	ird				
	D-4h							_			
tagingDoc	Path		D: \Ir	tegrity \TestExe							
baseLISAURL			http:	http://localhost:8080							
estCasePa	th		D:\Ir	D:\Integrity\TestExecution\runTestcase.bat							
testConfigPath			D:\Ir	D:\Integrity\TestExecution\configTest.bat							

The 4 parameters are retrieved by the LISA Adapter's java commands, so probably easy to tailor.

#### Result

#### **Test Result**

The LISA Adapter has a command line to send the test result back. You can see a little bit of history. Initially, this test case was a manual test (see the last row below). Then I changed to "Automated" and "LISA", so the errors in the middle showing some of the setup errors I had. The upmost two are the once I expected: The "Connection refused" pops up when the LISA server is not reachable (which was my case). Then I changed slightly the Java code again and returned a simulated error with a custom text.



ALM_T Created Modified	est Case: 548 by veckardt on <u>25.06.201</u> by veckardt on 27.08.201	<u>2 15:17:49</u> 3 22:24:24		Case	
Prope	rties Test Steps Traces	✓ Relationships Atta	chments Advanced	✓ Test Results ✓ Branches Labels History	
Show	results that are				Results: 13
	Test Session 🔹	Test Case	veraict	Annotation	
878	54	48	Failed	Simulated Error by Volker	
877	5	48	Failed	Connection refused: connect	
876	54	48	Failed	The path to the LISA configuration file D: \Integrity\TestExecution exists on the file system, but is a directory.	
875	54	48	Failed	The path to the LISA staging document file D:\Integrity\TestExecution exists on the file system, but is a directory.	
874	54	48	Failed	The path to the LISA staging document file null is not valid.	
873	54	48	Failed	The path to the LISA test case file D:\Integrity\TestExecution exists on the file system, but is a directory.	
872	54	48	Failed	The path to the LISA test case file c:\testcase does not exist on the file system.	
639	54	48	Passed		
637	54	48	Passed		
629	54	48	Failed	The base URL to the LISA server null is not valid.	
627	5	48	Passed		
623	54	48	Failed	Known failure added related defect.	

#### In Agent.Log:

Within the agent.log, you will get 3 lines only.

Agentvariant: 01 2013-08-28 16:13:52,390 INFO [mks.Agent] TM(5): Server VECKARDTIL.ptcnet.ptc.com:7001 connection to test execution agent by user veckardt using API version 4 2013-08-28 16:13:52,636 INFO [mks.Agent] DIAGNOSTIC(10): veckardt[BEEP Executor-1]: Disconnect: v0: VECKARDTIL.ptcnet.ptc.com:63885 (veckardt) 2013-08-28 16:13:52,636 INFO [mks.Agent] TM(5): Server VECKARDTIL.ptcnet.ptc.com:7001 disconnection from test execution agent using API version 4

I would like to add some more lines here, such as the executed test session and case. Will see how I can do that.

#### In Server.Log

Not much, mainly when debugging is on (see next section).

### **Debug Messages**

You will get the following in server.log when DEBUG is on:

2013-08-30 13:47:15,310 DEBUG [mksis.IntegrityServer] DEBUG(10): Considering trigger: VE: AutomatedTestSession.js against issue 878, Flags: 274, run: true 2013-08-30 13:47:15,310 DEBUG [mksis.IntegrityServer] DEBUG(5): Rule (-11 = 16 AND -9 != -9' AND -9' = 25) evaluated true, triggering Trigger: VE: AutomatedTestSession.js 2013-08-30 13:47:15,310 DEBUG [mksis.IntegrityServer] DEBUG(5): In AutomatedTestSession.js 2013-08-30 13:47:15,383 INFO [mksis.IntegrityServer] DIAGNOSTIC(5): veckardt[BEEP Executor-1]: Connecting using mks.frame.client.ClearConnectionProvider, mks.frame.security.PasswordCredential 2013-08-30 13:47:15,383 DEBUG [mksis.IntegrityServer] DEBUG(0): Auto-reconnect disabled 2013-08-30 13:47:15,384 DEBUG [mksis.IntegrityServer] DEBUG(10): --- Connecting to localhost 2013-08-30 13:47:15,384 DEBUG [mksis.IntegrityServer] DEBUG(10): --- Direct URL: rmi://localhost:9101, veckardt 2013-08-30 13:47:15,384 DEBUG [mksis.IntegrityServer] DEBUG(0): Connecting to localhost:9101 as veckardt 2013-08-30 13:47:15,385 DEBUG [mksis.IntegrityServer] DEBUG(0): Compression disabled 2013-08-30 13:47:15,395 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy230.lookup(TMExecFactory) 2013-08-30 13:47:15,397 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy230.lookup: END 1425Ms, result RemoteRefEx[[ id=1377920048048 ]/[id=1377699211827, hashCode=-1706091540]] 2013-08-30 13:47:15,397 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy231.getRemoteApiVersion([4])

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2013-08-30 13:47:15,398 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy231.getRemoteApiVersion: END 1121Ms, result 4

2013-08-30 13:47:15,398 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy231.getRMITestExec(4, VECKARDT1L.ptcnet.ptc.com, 7001)

2013-08-30 13:47:15,400 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy231.getRMITestExec: END 1727Ms, result RemoteRefEx[[ id=1377920048048 ]/[id=1377699211828, hashCode=-1706091541]]

2013-08-30 13:47:15,400 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy214.getRMIAgent()

2013-08-30 13:47:15,401 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy214.getRMIAgent: END 1365Ms, result RemoteRefEx[[ id=1377920048048 ]/[id=1377699211829, hashCode=-1706091542]]

2013-08-30 13:47:15,401 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy233.getAgentVersion()

2013-08-30 13:47:15,403 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy233.getAgentVersion: END 1194Ms, result 10.0.0 3-1 3238

2013-08-30 13:47:15,403 DEBUG [mksis.IntegrityServer] DEBUG(10): PatchManager service pack directory is: D:\IntegrityProgram\IntegrityServer10\server\servicepacks\10.0.0

2013-08-30 13:47:15,403 DEBUG [mksis.IntegrityServer] DEBUG(10): PatchManager.getAvailablePatchName() no download needed, file: D:\IntegrityProgram\IntegrityServer10\server\servicepacks\10.0.0\A10000003-01.zip, file ver: 10.0.0 3-1 -1, app ver: 10.0.0 3-1 3238

2013-08-30 13:47:15,404 DEBUG [mksis.IntegrityServer] DEBUG(10): PatchManager.getAvailablePatchName() no download needed, file: D:\IntegrityProgram\IntegrityServer10\server\servicepacks\10.0.0\A10000003-01.zip, file ver: 10.0.0 3-1 -1, app ver: 10.0.0 3-1 3238 2013-08-30 13:47:15,404 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy233.isUpdating()

2013-08-30 13:47:15,405 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy233.isUpdating: END 722Ms, result false

2013-08-30 13:47:15,405 DEBUG [mksis.IntegrityServer] DEBUG(5): isUpdating() returned: false

2013-08-30 13:47:15,405 DEBUG [mksis.IntegrityServer] DEBUG(5): about to runTestSession 878

2013-08-30 13:47:15,406 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy233.isUpdating()

2013-08-30 13:47:15,407 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: \$Proxy233.isUpdating: END 804Ms, result false 2013-08-30 13:47:15,407 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI:

\$Proxy214.runTestSessionV1(mks.tm.api.RunTestSessionArgs@1ab921e9)

2013-08-30 13:47:15,692 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: getIssues: END 12ms, result [ $(id=548,state=19,project=5,type=14,synopsis=null,moddate=Tue Aug 27 22:24:24 CEST 2013.240,-36=782,-28=627,872,873,874,875,876,877,878,-24=539,-23=Mon Jun 25 15:17:49 CEST 2012.77,-22=548,-21=0,-19=549[14],-18=539,21=0,34=false,183=false,186=false,192=true,228=0,231=0,232=0,251=true,253=160,297=true,309=Not Run,345=not run,372=D:\Integrity\TestExecution\stagingDoc.bat,373=http://localhost:8080,374=D:\Integrity\TestExecution\runTestcase.bat,375=D:\Integrity\TestExecution\configTest.bat}::{}]$ 

2013-08-30 13:47:15,693 DEBUG [mksis.IntegrityServer] DEBUG(10): command=ci.Issues; rc=0; mem=(total:1010499584,free:731305488); rmi=(in:1,out:1)

2013-08-30 13:47:15,707 DEBUG [mksis.IntegrityServer] DEBUG(0): API Version is: 4.11 003-01 3238 2013-08-30 13:47:15,715 DEBUG [mksis.IntegrityServer] DEBUG(10): Command: mks.ic.ci.commands.SetTestResultsCommand LicenseScheme:applicationLicensed

2013-08-30 13:47:15,817 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: isLicensed: END 101ms 2013-08-30 13:47:15,846 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: setTestResults(mks.frame.app.ui.ServerStatusReport@878bb58, 878, [Test Result

SessionID: 878 Case ID: 548 Shares Case ID: -2147483648 Verdict: -3 Annotation: Simulated Error by Volker Related Items: Add Related Items: Add Related Items: Attachments: Add Attachments: Remove Attachments: Test Step Results:

**REALIZED VALUE PLATFORM - CONFIDENTIAL - PTC PROPRIETARY** 

Remove Test Step Results:



], 2, false)

2013-08-30 13:47:15,847 DEBUG [mksis.IntegrityServer] DEBUG(5): Setting the fieldID for types [16] list to [-38, -11, -9, -5]

2013-08-30 13:47:15,858 DEBUG [mksis.IntegrityServer] DEBUG(5): Using hint override: null

2013-08-30 13:47:15,863 DEBUG [mksis.IntegrityServer] DEBUG(5): Reconstructing history: 1684Ms

2013-08-30 13:47:15,863 DEBUG [mksis.IntegrityServer] DEBUG(10): -19: Child issue 549, retrieved historic fields: {-31=160, -23=Mon Jun 25 15:17:49 CEST 2012, -22=549, -20=548,751,782, 36=<!-- MKS HTML -->During testing, the watch must be synchronized to a global time standard, 76=2, 230=Verify that watch time is synched to GMT.}

2013-08-30 13:47:15,864 DEBUG [mksis.IntegrityServer] DEBUG(5): Reconstructing history: 5ms

2013-08-30 13:47:15,864 DEBUG [mksis.IntegrityServer] DEBUG(5): Using hint override: null

2013-08-30 13:47:15,892 DEBUG [mksis.IntegrityServer] DEBUG(5): OUTGOING RMI: setTestResults: END 46ms

2013-08-30 13:47:15,893 DEBUG [mksis.IntegrityServer] DEBUG(10): command=tm.SetTestResults; rc=0;

mem=(total:1010499584,free:713691280); rmi=(in:4,out:2)

2013-08-30 13:47:15,900 DEBUG [mksis.IntegrityServer] DEBUG(10): Expiring APP session via header