HP UCA Automation

UCA Automation

Version 1.0

Installation Guide

Edition: 1.1

For the Linux (RHEL 6.4)

November **2013**

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Contents

Preface

This guide describes how to install the product on the supported platform.

Product Name: UCA Automation

Product Version: 1.0

Kit Version: V1.0

Intended Audience

Here are some recommendations based on possible reader profiles:

- Solution Developers
- Software Development Engineers

Software Versions

The term UNIX is used as a generic reference to the operating system, unless otherwise specified.

The software versions referred to in this document are as follows:

Product Version	Supported Operating systems
UCA Automation 1.0	• Linux Red Hat Enterprise Linux Server release 6.4

Table 1 - Software versions

Typographical Conventions

Italic Text:

- Filenames, programs and parameters.
- The names of other documents referenced in this manual.

Bold Text:

- To introduce new terms and to emphasize important words.

Associated Documents

The following documents contain useful reference information:

References

[R1] *HP UCA for Event Based Correlation V3.0 - Installation Guide V1.0.pdf*

[R2] *HP UCA for Event Based Correlation V3.0 - Topology Extension V1.0.pdf*

[R3] *HP UCA for Event Based Correlation V3.0 - Value Pack Development Guide V1.0.pdf*

[R4] *DeploymentManager.pdf (HPSA)*

[R5] NOM Installation and Configuration Guide

[R6] NOM HPSA Channel Adapter Installation guide

[R7] NOM UCA Automation Console Channel Adapter Installation guide

[R8] NOM UCA EBC Channel Adapter Installation guide

[R9] NOM TEMIP Channel Adapter Installation guide

Support

Please visit our HP Software Support Online Web site at www.hp.com/go/hpsoftwaresupport for contact information, and details about HP Software products, services, and support.

The Software support area of the Software Web site includes the following:

1. Downloadable documentation.
2. Troubleshooting information.
3. Patches and updates.
4. Problem reporting.
5. Training information.
6. Support program information.

Chapter 1

Introduction

This guide describes the installation procedure for the UCA Automation solution.

1.1 Local Install Descriptors

The following locations are used to define install locations throught this guide.

Descriptor	What the descriptor represents
${ACTIVATOR_OPT}	*The base install of Service Activator. The UNIX® location is /opt/OV/ServiceActivator*
${SOLUTION_ETC}	The etc directory of the HPSA value pack solution
${UCA_EBC_HOME}	The root directory of UCA-EBC. The default value is /opt/UCA-EBC
${UCA_EBC_DATA}	The data directory of UCA-EBC. The default value is /var/opt/UCA-EBC
${UCA_EBC_INSTANCES}	This directory may contain multiple instances of UCA-EBC where the value packs are deployed. The path refers to *${UCA_EBC_DATA}*/instances/default
${UCA_AUTOMATION_CONSOLE_HOME}	This directory contains the UCA Automation UI deployment. The path refers to /opt/UCA-ATM
${UCA_AUTOMATION_CONSOLE_DATA}	The data directory of the UCA Automation Console. This path refers to /var/opt/UCA-ATM
${OM_INSTANCE}	/var/opt/openmediation-V62/containers/<instance-#>

Table 2 – Local Install Descriptors

Chapter 2

Prerequisites

2.1 Server Platforms

Red Hat Enterprise Linux 6.4

- UCA-EBC 3.0
- HPSA V6.2-1A

Red Hat Enterprise Linux 5.8

- NOM 6.2

2.2 Hardware

- X86-64 based system
- Atleast 4 GB of memory
- The database system requires space for an Oracle 11g or a PPAS database instance of atleast 4 GB for the product data.

2.3 Software

2.3.1 HP UCA-EBC

- UCA for Event Based Correlation Server Version V3.0 and latest patches
- UCA for Event Based Correlation Topology Extension
- Java JRE/JDK 6 - 1.6.0.08 (or later)
- Red Hat Enterprise Linux Server release 6.4

2.3.2 HP Service Activator

- HP Service Activator version 6.2 - V62-1A and latest patches
- Red Hat Enterprise Linux 6.4 for x86-64 and all available patches
- The ksh shell and X11
- Java SE 6 update 37 JDK or later (not version 7)
- Oracle 11g or Postgres Plus Advanced Server 9.2. The database may be installed on the same server or may be accessed remotely (but it must be located in the same subnetwork). You may also use an existing database that is already used by another application. In that case, you need to create a new database user (if Oracle is used) or a new database instance (if Postgres Plus Advanced Server is used) for exclusive use by Service Activator and UCA Automation.

2.3.3 NOM

- Red Hat Enterprise Linux Server release 5.8
- NOM Basic SMX Components
- OSS Open Mediation V6.2 and latest patches
- UCA for Event Based Correlation Channel Adapter V3.0
- The TeMIP Channel Adapter: if your solution involves TeMIP
- HPSA Channel Adapter
- UCA Automation Console Channel Adapter

2.3.4 JAVA

Please note that it is highly recommended to have same JAVA_HOME for HPSA and UCA-EBC. Since HPSA currently does not support JAVA 1.7 it is recommended to use Java SE 6 update 37 JDK or later.

2.3.5 TeMIP 6.2 (incase TeMIP is being used as NMS)

- Patch for CR-9990 (Release version V620L01P01) for Linux. See “HP UCA Automation V1.0 - Administrator and User Interface Guide V1.0” for instructions for customizing TeMIP client.
- TEMIPTFRLIN_00172 - Add User Defined Attributes. Follow the instructions in the TEMIPTFRLIN_00172.text for installation. Specify “TND” as the project name when executing the temip_ah_user_defined_attr command.

2.4 Web Client

- Microsoft Internet Explorer 9.0

Chapter 3

UCA Automation Solution Pack

The UCA Automation solution is delivered as an RPM file named:

UCA_Automation-V1.0-REV_A.noarch.rpm

To install the package, perform the following operations as a **root** user:

1. Transfer the file UCA_Automation-V1.0-REV_A.noarch.rpm to a RHEL system, and place it under a directory, say /tmp
2. Run the following command to install the package

```
# rpm –ivh UCA_Automation-V1.0-REV_A.noarch.rpm
```

   a. It would install the package under */opt/UCA_Automation* directory.

   b. Following directories are extracted

   - TeMIP_Integration
     - TEMIPTFRLIN_00172.tar
     - UCA_Automation_SetupLaunch.conf
   - UCA_Automation_ChannelAdapters
     - uca-autoconsole-ca-V100L01.zip
     - uca-hpsa-ca-V1000L01.zip
   - UCA_Automation_Console
     - UCA_Automation_Console-V1.0-REV_A.noarch.rpm
   - UCA_Automation_HPSA_VPs
     - UCA_HPSA_DomainExample_VP-V10-1A.zip
     - UCA_HPSA_FoundationVP-V10-1A.zip
   - UCA_Automation_UCA_VPs
     - UCA_Automation_DomainExample_UCA_EV-vp-V1.0-1A.zip
     - UCA_Automation_Foundation_UCA-vp-V1.0-1A.zip
     - UCA_Automation_DomainExample_UCA_PD-vp-V1.0-1A.zip
   - UCA_Automation_Documents
     - UCA-Autoconsole-CA.pdf
     - UCA-HPSA-CA.pdf
     - HP UCA Automation V1.0 - Installation Guide.pdf
     - HP UCA Automation V1.0 Administrator and User Interface Guide.pdf
     - UCA Automation V1.0 Integration Guide.pdf

Artifact	Remarks
TEMIPTFRLIN_00172.tar	TeMIP Server Patch – User Defined Attributes
UCA_Automation_SetupLaunch.conf	
uca-autoconsole-ca-V10.zip	UCA-Automation Console Channel Adapter
uca-hpsa-ca-V10.zip	UCA-HPSA Channel Adapter
UCA_Automation_Console-V1.0.rpm	UCA Automation UI Console
UCA_HPSA_DomainExample_VP-V10-1A.zip	HPSA example VP
UCA_HPSA_FoundationVP-V10-1A.zip	HPSA Foundation VP
UCA_Automation_DomainExample_UCA_EV-vp-V1.0-1A.zip	UCA EBC example evaluate value pack
UCA_Automation_Foundation_UCA-vp-V1.0-1A.zip	UCA EBC Foundation VP
UCA_Automation_DomainExample_UCA_PD-vp-V1.0-1A.zip	UCA EBC example PD value pack

Table 3 – RPM artifacts

3. Refer to the subsequent chapters for details on installing the various components
4. Verify if the package is successfully installed:
    a. Run the following command:

```
# rpm –-qa | grep –i Automation
UCA_Automation-V1.0-REV_A.noarch
UCA_Automation_Console-V1.0-REV_A.noarch
```

5. Uninstall the packages by running the following commands:
    a. rpm -ev UCA_Automation_Console-V1.0-REV_A.noarch
    b. rpm -ev UCA_Automation-V1.0-REV_A.noarch

Chapter 4

HPSA Foundation Value Pack

4.1 Deployment

The HPSA foundation value pack is delivered as a zip file named:

UCA_HPSA_FoundationVP-V10-1A.zip.

As root user, copy the zip of the foundation value pack to ${ACTIVATOR_OPT}/SolutionPacks

Follow the instructions in [R4] *DeploymentManager.pdf* guide to import and deploy the Foundation Value Pack solution.

Make sure that the Create Inventory Table check box is selected

The same guide contains the procedure to undeploy and delete a HPSA solution pack.

4.2 Configuration

As **root** user, run the config.sh script in *${SOLUTION_ETC}/config* directory. This scripts enable the httpsender module in MWFM xml of HPSA with the URL of the Automation Console.

```
# cd /opt/OV/ServiceActivator/solutions/UCA/etc/config
# chmod +x ./config.sh
# ./config.sh
Setting up the Service Activator UCA Foundation Value Pack...

Configuring MicroWorkFlow Manager
(/etc/opt/OV/ServiceActivator/config/mwfm.xml)...
============================================================

UCA HTTP Sender module...
Enter Host name/IP address of the web service portal [localhost] :
Enter port for web service portal [ 8080 ] :
8191
(Saving mwfm.xml for future reconfiguration)

/etc/opt/OV/ServiceActivator/config/mwfm.xml configured



Done setting up Service Activator Foundation Value Pack

Log file:
/var/opt/OV/ServiceActivator/log/tfrsol1/ucasp.install.031813_013907.log

Changes in Service Activator configuration files
may be inspected in files:
```

```
/var/opt/OV/ServiceActivator/log/tfrsol1/uca.mwfm.xml.diff

Press enter to continue...
```

The mwfm.xml snippet is as shown below:

```
  <Module>
      <Name>uca_http_sender</Name>
      <Class-Name>com.hp.ov.activator.mwfm.engine.module.HTTPSenderModule</Class-Name>
       <Param name="url"  value="http://0.0.0.0:8191/UCAAutomation/UCAService"/>
      <Param name="connect_timeout"      value="10000"/>
      <Param name="read_timeout" value="10000"/>
      <Param name="min_threads" value="1"/>
      <Param name="max_threads" value="3"/>
        <Param name="queue_name" value="httprequest"/>
        <Param name="retry_count" value="3"/>
        <Param name="retry_interval" value="40000"/>
        <Param name="queue_class" value="com.hp.ov.activator.mwfm.engine.module.Weight
edEngineQueue"/>
  </Module>
```

Do not forget to reload the configuration from the HPSA UI or restart HP Service Activator

Chapter 5

UCA EBC Foundation Value Pack

5.1 Deployment

The UCA Automation foundation value pack is delivered as a zip file named:

UCA_Automation_Foundation_UCA-vp-V1.0-1A.zip

Copy the value pack zip of the foundation value pack to *${UCA_EBC_INSTANCES}*/valuepacks

Follow the instructions in [R3] *HP UCA for Event Based Correlation V3.0 - Value Pack Development Guide V1.0.pdf* guide to deploy the Foundation Value Pack and start the value packs.

Edit the file *${UCA_EBC_DATA}/instances/default/conf/uca-ebc-log4j.xml*

Add the following section in the file under the root tag <log4j:configuration>, specifically below the commented line "*Detailed Traces for Value Pack Scenarios*":

```
<logger name="UCA_Automation_Foundation_UCA.actionrequest" additivity="false">
        <level value="TRACE" />
        <appender-ref ref="CONSOLE" />
        <appender-ref ref="FILE" />
</logger>

<logger name="UCA_Automation_Foundation_UCA.actionresponse" additivity="false">
        <level value="TRACE" />
        <appender-ref ref="CONSOLE" />
        <appender-ref ref="FILE" />
</logger>

<logger name="com.hp.ucaautomation.foundation.vp.actionrequest" additivity="false">
        <level value="TRACE" />
        <appender-ref ref="CONSOLE" />
        <appender-ref ref="FILE" />
</logger>

<logger name="com.hp.ucaautomation.foundation.vp.actions" additivity="false">
        <level value="TRACE" />
        <appender-ref ref="CONSOLE" />
        <appender-ref ref="FILE" />
</logger>

<logger name="com.hp.ucaautomation.foundation.vp.core" additivity="false">
        <level value="TRACE" />
        <appender-ref ref="CONSOLE" />
        <appender-ref ref="FILE" />
</logger>

<logger name="com.hp.ucaautomation.neo4jdt" additivity="false">
        <level value="DEBUG" />
```

```
        <appender-ref ref="CONSOLE" />
        <appender-ref ref="FILE" />
</logger>

<logger name="UCA_Automation_DomainExample_UCA_EV.evaluate" additivity="false">
        <level value="TRACE" />
        <appender-ref ref="CONSOLE" />
        <appender-ref ref="FILE" />
</logger>

<logger name="com.hp.ucaautomation.example.vp.ev.core" additivity="false">
        <level value="TRACE" />
        <appender-ref ref="CONSOLE" />
        <appender-ref ref="FILE" />
</logger>

<logger name="com.hp.ucaautomation.example.vp.ev.evaluate" additivity="false">
        <level value="TRACE" />
        <appender-ref ref="CONSOLE" />
        <appender-ref ref="FILE" />
</logger>
```

Chapter 6

UCA Automation UI

6.1 Deployment

The UCA Automation UI value pack is delivered as a RPM:

UCA_Automation_Console-V1.0.noarch.rpm.

The RPM consists of the Jetty web server and the UCA Automation UI.

Install the UCA Automation console by running the following command:

```
# rpm -ivh UCA_Automation_Console-V1.0.noarch.rpm
```

It installs the UCA Automation Console solution in the *${UCA_AUTOMATION_CONSOLE_HOME}*and *${UCA_AUTOMATION_CONSOLE_DATA}*directories respectively.

6.2 Configuration

Edit the file *jetty-env.xml* in the *${UCA_AUTOMATION_CONSOLE_HOME}/webapp/UCAAutomation.war/WEB-INF* directory and provide the database related details of the UCA Automation Inventory.

In case PPAS is the database of choice, following must be added:

```
<New id="UCADS" class="org.eclipse.jetty.plus.jndi.Resource">
    <Arg>jdbc/UCADS</Arg>
    <Arg>
        <New class="org.postgresql.ds.PGSimpleDataSource">
            <Set name="User"><DB User></Set>
            <Set name="Password"><DB password></Set>
            <Set name="DatabaseName"><DB schema></Set>
            <Set name="ServerName"><DB server></Set>
            <Set name="PortNumber">5444</Set>
        </New>
    </Arg>
</New>
```

Sample snippet of jetty-env.xml for PPAS is as shown below:

```
<?xml version="1.0"  encoding="ISO-8859-1"?>
<!DOCTYPE Configure PUBLIC "-//Mort Bay Consulting//DTD Configure//EN"
"http://www.eclipse.org/jetty/configure.dtd">
<Configure class="org.eclipse.jetty.webapp.WebAppContext">
        <New id="UCADS" class="org.eclipse.jetty.plus.jndi.Resource">
                <Arg>jdbc/UCADS</Arg>
                <Arg>
                        <New class="org.postgresql.ds.PGSimpleDataSource">
                                <Set name="User">hpsa61</Set>
                                <Set name="Password">hpsa61</Set>
                                <Set name="DatabaseName">hpsadb</Set>
                                <Set name="ServerName">localhost</Set>
                                <Set name="PortNumber">5444</Set>
                        </New>
                </Arg>
        </New>
 </Configure>
```

For Oracle, the jetty-env.xml would be as follows:

```
<New id="UCADS" class="org.eclipse.jetty.plus.jndi.Resource">
    <Arg>jdbc/UCADS</Arg>
    <Arg>
        <New class="oracle.jdbc.pool.OracleConnectionPoolDataSource">
            <Set name="URL">jdbc:oracle:thin:@<DB server>:<DB port>:<DB Schema></Set>
            <Set name="User"><DB User></Set>
            <Set name="Password"><DB password></Set>
        </New>
    </Arg>
</New>
```

Sample snippet of jetty-env.xml for Oracle is as shown below:

```
<New id="DSTest" class="org.mortbay.jetty.plus.naming.Resource">
    <Arg></Arg>
    <Arg>jdbc/DSTest</Arg>
    <Arg>
     <New class="oracle.jdbc.pool.OracleConnectionPoolDataSource">
                <Set name="URL">jdbc:oracle:thin:@localhost:1521:orcl</Set>
                <Set name="User">user</Set>
                <Set name="Password">pass</Set>
     </New>
    </Arg>
</New>
```

Edit the file UCAAutomation.properties in the *${UCA_AUTOMATION_CONSOLE_HOME}/webapp/ UCAAutomation.war/WEB-INF/classes* directory and provide the Neo4j host and port number.

Descriptor	What the descriptor represents
neo4j_host	The hostname/ip address of the server hosting the database
neo4j_port	The port number of Neo4j graph database

Table 4 – Neo4j Configuration Descriptors

Sample snippet of UCAAutomation.properties is as shown in the following figure:

```
neo4j_host=localhost
neo4j_port=7474
HPSA_host=localhost
HPSA_port=2000
java.naming.factory.initial = org.apache.activemq.jndi.ActiveMQInitialContextFactory
java.naming.provider.url =tcp://localhost:10000
topic.uca-automation-alarms = uca.automation.console.alarms
UCACONSOLE_CA_URL=http://localhost:12500/UCAAutomationConsoleService/UCAAutomationConsoleService
UCACONSOLE_CA_NAMESPACE=http://ws.ucaautomation.hp.com/
UCACONSOLE_CA_LOCALPART=UCAServiceImplService
TASK_HPSA=UCAController
UI_AUTO_REFRESH_INTERVAL=5000
```

Change the Jetty listening port in the *uca-ui.properties* in the *${UCA_AUTOMATION_CONSOLE_HOME}/conf* directory.

The port *ucaui.gui.port* is where the Jetty server is started. The port *ucaui.socketport* is used for graceful shutdown of Jetty server.

```
#
# port number on which the Embedded Jetty server hosting the UCA Automation Console will be started
#
ucaui.gui.port=9080

#
# the UCA Automation Console application
#
ucaui.gui.webapp = webapp/UCAAutomation.war

#
# this port is used to gracefully shutdown the Jetty server
#
ucaui.socketport = 8080
```

6.3 Starting and Stopping

The embedded jetty can be started and stopped using the below scripts.

For starting server:

{UCA_AUTOMATION_CONSOLE_HOME}/bin/ucautomation-ui start

```
# ucautomation-ui start

*** INFO: Starting UCA Automation Console
```

*** INFO: UCA Automation Console started (pid=17645)Note: If the execute permission for the script is missing, provide the same.

For stopping server:

{UCA_AUTOMATION_CONSOLE}/bin/ucautomation-ui stop

```
# ucautomation-ui stop
*** INFO: Stop completed
```

Chapter 7

NOM Channel Adapters

7.1 HPSA Channel Adapter

Follow the instructions given in [R6] *NOM HPSA Channel Adapter Installation guide* to install and deploy the HPSA Channel Adapter.

Edit the config.properties in the *${OM_INSTANCE}/ips/uca-hpsa-ca-V10/etc*

```
# HPSA connectivity settings
hpsa.host=0.0.0.0
hpsa.port=<HPSA port>
hpsa.userid=<HPSA user with StartJob privileges>
hpsa.password=<password for the above HPSA user>

# UCA-Automation controller workflow
hpsa.controller.workflow.name=UCAController

# UCA-Automation response handler connectivity settings
hpsa.uca-automation.sync-service.host=0.0.0.0
hpsa.uca-automation.sync-service.port=8191
```

Snippet config.properties is as shown below :

```
# HPSA connectivity settings
hpsa.host=0.0.0.0
hpsa.port=8080
hpsa.userid=sa
hpsa.password=sa

# UCA-Automation controller workflow
hpsa.controller.workflow.name=UCAController


# UCA-Automation response handler connectivity settings
hpsa.uca-automation.sync-service.host=0.0.0.0
hpsa.uca-automation.sync-service.port=8191
```

Descriptor	What the descriptor represents
hpsa.host	Hostname /IP address of the server where HPSA is hosted.
hpsa.port	The listening port of the HPSA
hpsa.userid	The login user name of HPSA which has roles to start, kill and check the status of a job.
hpsa.password	The login password associated with the

Descriptor	What the descriptor represents
	user name
hpsa.uca-automation.sync-service.host	By default it is 0.0.0.0. This is the hostname/IP address of the internal webservice being hosted by the HPSA CA
hpsa.uca-automation.sync-service.port	By default it is 8191. The listening port number of the internal webservice hosted by the CA.
hpsa.controller.workflow.name	The name of the HPSA foundation workflow to be invoked in HPSA. This value should not be changed.

Table 5 – HPSA CA config descriptors

7.2 UCA Automation Console Channel Adapter

Follow the instructions given in [R7] *NOM UCA Automation Console Channel Adapter Installation guide* to install and deploy the Automation Console Channel Adapter.

Edit the config.properties in the *${OM_INSTANCE}/ips/uca-autoconsole-ca-V10/etc*

```
uca.uca-automation.host=0.0.0.0
uca.uca-automation.port=12500
uca.console.service=UCA_AUTOMATION_CONSOLE/UCAService
uca.console.host=localhost
uca.console.port=<uca-ui.properties - ucaui.gui.port>
```

Snippet config.properties is as shown below :

```
uca.uca-automation.host=0.0.0.0
uca.uca-automation.port=12500
uca.console.service=UCAAutomation/UCAService
uca.console.host=localhost
uca.console.port=9080
```

Descriptor	What the descriptor represents
uca.uca-automation.host	By default it is 0.0.0.0. The hostname/ip address of the of the Automation console CA where the internal webservice is being hosted
uca.uca-automation.port	By default it is 12500. The listening port of the internal Automation console CA webservice.
uca.console.service	The name of the webservice
uca.console.host	Hostname /IP address of the server where UCA Automation console is hosted
uca.console.port	The listening port of the UCA Automation console. See section 6.2, uca-ui.properties - ucaui.gui.port

Table 6 – UCA Console CA config descriptors

Chapter 8

UCA Automation Licensing

A 60 day Instant-On license is by default installed when the UCA Automation Console is started or the License Manager (AutopassJ UI) is invoked for the first time. This license activates all features of the product for a trial period. After expiration of this trial period, an extended evaluation or a commercial license is needed to continue to use the product.

For any questions related to licensing, please get in touch with the UCA Automation product management.

Licensing is managed with HP AutoPassJ (automatically installed alongside UCA Automation Console).

8.1 License Management Using AutoPassJ

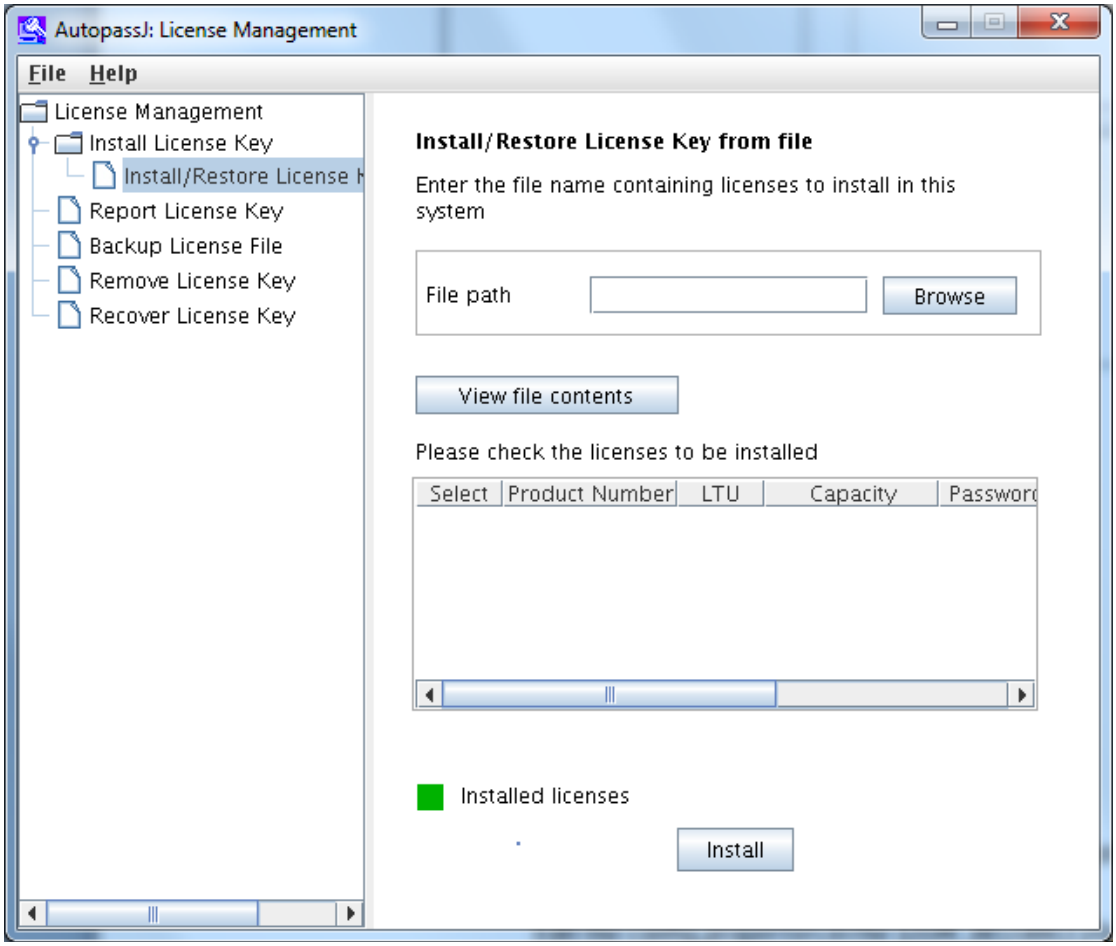
The AutoPassJ UI can be launched by running the script *license-manager* which is located at *${UCA_AUTOMATION_CONSOLE_HOME}/bin*.

License Management UI must be invoked using an XWindows connection because the installation requires GUI interaction. If you are connected to a remote machine, you must ensure that your DISPLAY environment variable is set to point at your local machine

The AutoPassJ License management has the following options

- Install License Key : install license from a file
- Report License Key : view information on the licenses installed the AutoPass license database
- Backup License File : backup the license file
- Remove License Key : remove license from the Autopass license database
- Recover License Key : recover the removed licenses if they were not removed permanently from the system

The detailed *HP AutoPassJ* help is available under the *Help* menu in the main AutoPassJ window.


AutopassJ: License Management
File Help
License Management
Install License Key
Install/Restore License K
Report License Key
Backup License File
Remove License Key
Recover License Key
Install/Restore License Key from file
Enter the file name containing licenses to install in this system
File path
Browse
View file contents
Please check the licenses to be installed
Select
Product Number
LTU
Capacity
Password
Installed licenses
Install

Chapter 9

UCA EBC Server

9.1 Configuration

Add the the below section to the ActionRegistry.xml located at *${UCA_EBC_INSTANCES}*/conf under the root tag *ActionRegistryXML*.

```
<MediationValuePack MvpName="uca-autoconsole-ca" MvpVersion="10"
        url="http://localhost:26700/uca/mediation/action/ActionService?WSDL"
        brokerURL="failover://tcp://localhost:10000">
        <Action actionReference="DiagnosticActions">
            <ServiceName>diagnosticAction</ServiceName>
            <NmsName>localhost</NmsName>
        </Action>
</MediationValuePack>
```

Chapter 10

TeMIP (Optional)

When TeMIP is being used as a NMS, the following configuration is required

10.1 Operation context creation

Enter the Temip management and execute the commands as shown below

```
$ manage
TeMIP Framework (V6.2.0)
```

```
TeMIP> create domain uca_dom
Domain tfrsol1_ns:.uca_dom
On director: tfrsol1_ns:.temip.tfrsol1_director
AT Mon 11 Mar 2013 06:54:49

Entity successfully created.
```

```
TeMIP> create oper uca_network assoc domain uca_dom
OPERATION_CONTEXT tfrsol1_ns:.uca_network
On director: tfrsol1_ns:.temip.tfrsol1_director
AT Mon 11 Mar 2013 06:55:29

Operation Context successfully created
```

```
TeMIP> create oper uca_pbalarm assoc domain uca_dom
OPERATION_CONTEXT tfrsol1_ns:.uca_pbalarm
On director: tfrsol1_ns:.temip.tfrsol1_director
AT Mon 11 Mar 2013 06:56:07

Operation Context successfully created
```

```
TeMIP> register oper uca_network
OPERATION_CONTEXT tfrsol1_ns:.uca_network
On director: tfrsol1_ns:.temip.tfrsol1_director
AT Mon 11 Mar 2013 06:56:22

Registration successful.
TeMIP> register oper uca_pbalarm
OPERATION_CONTEXT tfrsol1_ns:.uca_pbalarm
On director: tfrsol1_ns:.temip.tfrsol1_director
AT Mon 11 Mar 2013 06:56:36

Registration successful.
```

Chapter 11

Code Signing

This Software Product from HP is digitally signed and accompanied by Gnu Privacy Guard (GnuPG) signatures. HP strongly recommends using signature verification on its products, but there is no obligation. Customers will have the choice of running this verification or not as per their IT Policies.

11.1 Installing and Configuring Gnu Privacy Guard (GnuGP)

If you do not already have GnuGP installed, you will first need to download and install it. For information about obtaining and installing GnuGP, see http://www.gnupg.org

Before verifying the signatures delivered on the HP Service Activator DVD, you need to configure GnuGP for accepting the HP signature. To do this, follow these steps:

1. Log on your system
2. Get the HP public key from following location:

   https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPLinuxCodeSigning

   Save the key as *hpPublicKey.pub*.
3. Import the key into GnuPG by running this command

   gpg --import hpPublicKey.pub

11.2 Verifying the Authenticity and Integrity of the Software

The procedures listed below allow you to assess the integrity of the software before installing it, by verifying the signatures of the software packages.

11.2.1 Red Hat Enterprise Linux 6.4

From a command prompt, go to the home directory on the DVD and run the following command:

gpg --verify UCA_Automation-V1.0-REV_A.noarch.rpm.*sig* UCA_Automation-V1.0-REV_A.noarch.rpm

Look for the following output from the gpg command:

gpg: Good signature from "Hewlett-Packard Company (HP Codesigning Service)"

Glossary

UCA	Unified Correlation Analyzer
EBC	Event Based Correlation
IP	Installation Package for OSS Open Mediation V6.2
JDK	Java Development Kit
JMS	Java Messaging Service
JNDI	Java Naming and Directory Interface
JRE	Java Runtime Environment
Inference Engine	Process that uses a Rete algorithm
DRL	Drools Rule file
XML	Extensible Markup Language
XSD	Schema of an XML file, describing its structure
NOM	NextGen OSS Open Mediation
CA	NOM Channel Adapter
PPAS	Postgres Plus Advanced Server

Table 7 – Glossary