# **HP UCA Automation**



**UCA** Automation

Version 1.0

### Administrator And User Interface Guide

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### **Preface**

This guide describes how to use the web-based user interface of the UCA Automation. The administrators, operators and observers have different privileges provided through the user interfaces.

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
- Solution Administrator
- Solution Operators

#### **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

As the provided user interface is web based, the rendering of some components may be slightly different depending on the browser used.

However the described functionalities should be identical on any supported browser.

For the UCA Automation 1.0, the supported browser is Microsoft Internet Explorer 9.0.

### **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 Automation V1.0 Installation Guide V1.1.pdf
- [R2] HP UCA Automation V1.0 Integrator's Guide V1.1.pdf
- [R3] DeploymentManager.pdf (HPSA)
- [R4] NOM Installation and Configuration Guide
- [R5] NOM HPSA Channel Adapter Installation guide
- [R6] NOM UCA Automation Console Channel Adapter Installation guide
- [R7] NOM UCA EBC Channel Adapter Installation guide
- [R8] NOM TEMIP Channel Adapter Installation guide

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

- Downloadable documentation.
- Troubleshooting information.
- Patches and updates.
- Problem reporting.
- Training information.
- Support program information.

### Introduction

This guide describes the web-based user interface for the UCA Automation solution, which covers the functionality of the following roles:

- Administrator
- Operator
- Observer

This guide also describes the administrative tasks that must be carried out in the UCA Automation solution, and covers the following parts:

- Populate the HP Service Activator inventory data
- Populate the Neo4J graph DB data
- Launching test on UCA Automation from TeMIP Client
- Internationalization (I18N)

### **1.1 Software pre-requisites**

The following browsers are supported in UCA Automation V1.0

Browser	Version
Microsoft Internet Explorer	9.0

 Table 2 – Supported Web Browsers

# 1.2 Launching the UCA Automation User Interface

Once the UCA Automation application is started, the user interface can be launched, by accessing the following URL:

#### http://<hostname or IP address>:<port #>/UCAAutomation

where

<hostname or IP address> should be replaced by the actual hostname (full DNS name) or IP address of the UCA Automation Server system. If UCA Automation server is running on your local host, you can use ,localhost' as the name of the host to connect to using your web browser.

<port #> is the port number for UCA Automation User Interface, 9080 by default.

### **1.3 UCA Automation User Interface Layout**

The following picture shows the UCA Automation User Interface main screen, representing the Monitoring page. This is the default screen for the Observer role.

The various Actions, and their State's are displayed in this page. The Actions are grouped by Originator and sorted by (1. Originator (Descending) and 2. Id(Descending))

hp										Useriguest - Role:Obe	erver Login
~					UCA	Automation					
JCA Automation	ALL	FAILED [0]	Waiting For Operator [	3]							2 Refresh
Monitoring	2 Sho	ow Details									1 of 2 >> >>
Manual Tests     Topology View	ID .	* 2	Action Name	Action ID	Problem	Mode	Action Originator	Originator * 1	State	Start Time	Result
View Reports	operation	n_context uca_	network alarm_object	2085							
ettings		116	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_net	Waiting_Operator	14-Nov-13 12	
Users	🖃 operation	n_context uca_	network alarm_object	2071							
Auto Refresh ON		112	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_net	Waiting_Operator	14-Nov-13 09	
	. operation	n_context uca_	network alarm_object	2064							
		111	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_net	Waiting_Operator	14-Nov-13 09	
	🖃 operation	n_context uca_	network alarm_object	2043							
		108	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context ucs_net	Request_Sent	12-Nov-13 04	
	🖃 operation	n_context uca_	network alarm_object	2036							

Figure 1 - UCA Automation User Interface main view

The various roles available in the UCA Automation User Interface are Observer, Operator and Administrator.

In order to get access to the UCA Automation User Interface, get in touch with the UCA Automation administrator, who will create a user and associate a role with this user.

On the left panel, the various operations possible are User Management, Monitoring, Manual Tests, Topology View and View Reports. Following chapters discuss each operation in details.

# **UCA Automation Settings**

### 2.1 User logging

Different operations in the UCA Automation User Interface are accessible to users with different roles.

Following are the various operations allowed for the given role

Operation	Observer	Operator	Administrator
User Management			$\checkmark$
Monitoring	$\checkmark$	$\checkmark$	$\checkmark$
Manual Tests	$\checkmark$	$\checkmark$	$\checkmark$
Topology Views	$\checkmark$	$\checkmark$	$\checkmark$
View Reports	$\checkmark$	$\checkmark$	

Table 3 – roles and privileges

NOTE: Observer only has the view privileges.

When the UCA Automation web interface is started, by default, '**guest**' user with role '**Observer**' is logged in.



Figure 2 - Default login role

Log-in to the interface as another user is performed by click on "Login" link on upper right corner of the page.



Figure 3 – Login panel access

At installation time, the 'admin' user is created with Administrator privileges. The credentials are

User Name: admin

Password: admin

Login to the application as admin user to create additional users.

Monitoring Show Details	ED [ 1 ] Waiting For Operat s Action Name st uca_network alarm_obj test_bsc_interface test_bsc_interface Action2	Action ID	UCA Problem bsc_interface_down bsc_interface_down bsc_interface_down	Automation Mode Open Loop Open Loop Open Loop	Action Originator alarm operator	Originator operation_context uca_n admin	State Waiting_Operator Failure	Start Time 25-Oct-13 04: 30-Oct-13 01:	1 o Result
Monitoring     Store Details       Manual Tests     D*       Topology New     D exercise       View Reports     D exercise       Itigs     D 102       Lisses     D endmin       Auto Refresh ON     105	s Action Name Action Name tuca_network alarm_obj test_bsc_interface test_bsc_interface	Action ID ect 1527 100 100	bsc_interface_down	Open Loop Open Loop	alarm operator	operation_context uca_n admin	Waiting_Operator	25-Oct-13 04:	Result
Manual Tests     Topology New     Generation.contex     Mise Reports     Users     Users     Auto Refresh CN     10	Action Name xt uca_network alarm_obj test_bsc_interface test_bsc_interface	ject 1527 100 100	bsc_interface_down	Open Loop Open Loop	alarm operator	operation_context uca_n admin	Waiting_Operator	25-Oct-13 04:	Result
Topology View © operation_conte ings 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	xt uca_network alarm_obj test_bsc_interface test_bsc_interface	ject 1527 100 100	bsc_interface_down	Open Loop Open Loop	alarm operator	operation_context uca_n admin	Waiting_Operator	25-Oct-13 04:	
View Reports e operation_contes ings 102 Users e admin Auto Refresh ON 105	test_bsc_interface test_bsc_interface	100	bsc_interface_down	Open Loop	operator	admin			ping: unknown host 0.0.0.2
Users  Auto Refresh ON	test_bsc_interface	100	bsc_interface_down	Open Loop	operator	admin			ping: unknown host 0.0.0.2
Auto Refresh ON 105							Failure	30-Oct-13 01:	ping: unknown host 0.0.0.2
							Failure	30-Oct-13 01:	ping: unknown host 0.0.0.2
103	Action2	110	bsc_interface_down	Open Loop					
					operator	admin	Waiting_Operator	29-Oct-13 06:	
			UCA Automation User Name : ad Password :	min					

Figure 4 – Login panel

### 2.2 User Management

A user can be added, modified or deleted only by a user with Administrator role.

The user management panel can be opened by selecting Settings  $\rightarrow$  Users menu options.

hp 🛛				User:guest - Role:Observer	Login
		UCA Automation			
UCA Automation	🐉 User Management 🏂 UCA Users 🏂 UCA Roles				
Monitoring					
Manual Tests					
Topology View		User Role Map			
View Reports	Assign Role Remove Role	User Name	Role Name		
Settings	admin	Administrator	Administrator		
🁪 Users					
Auto Refresh ON					



The User Management tab displays the different users and the roles that they are associated with.

Roles are prefined (as part of post-install script to be restricted into Administator, Operator and Observer, which cannot be edited, deleted or new can be inserted)

Select the Users  $\rightarrow$  UCA Users menu option and Add User, Edit User, and Delete User to add, change or remove a user.

hp				User:guest - Role:Observer	Login
		UCA Automation			
UCA Automation	👔 User Management 👔 UCA Users 👔 UCA Roles				
Monitoring					
Manual Tests					
Topology View		UCA Users			
View Reports	Add User Edit User Delete U	Description	Real Name		
Settings	admin	Admin User	Administrator		
👪 Users					
Auto Refresh OFF					

#### Figure 6 – UCA Automation users

The different roles available in UCA Automation are as shown in the figure below.

hp						User:guest - Role:Observer	Login
				UCA Automation			
UCA Automation	👔 User Management 👔	UCA Users	👪 UCA Roles				
Monitoring							
Manual Tests				UCA Roles			
Topology View	Role ID			Role Name	Description		
View Reports	100			Administrator	Administrator Role		
Settings	101			Operator	Operator Role		
👪 Users	102			Observer	Observer Role		
Auto Refresh OFF							

Figure 7 – UCA roles

### 2.3 Auto Refresh

Records in the monitoring page are displayed almost at runtime, when the new event occurs.

The page is automatically refreshed to fetch the new records, at an interval defined by the /opt/UCA-ATM/webapp/UCAAutomation.war/WEB-INF/classes/UCAAutomation.properties, UI\_AUTO\_REFRESH\_INTERVAL attribute. By default the auto refresh timer is set to 10 seconds (10000ms). User is also provided with a Refresh button on the right of the monitoring page for usability.

In order to improve user experience, once the record of interest is available in the UI, Auto Refresh can be turned OFF to avoid losing the record selections made.

The Auto Refresh value can be toggled by clicking on Settings  $\rightarrow$  Auto Refresh option.

# Monitoring

Status of each test performed can be viewed in this panel.

Select the The user management panel can be opened by selecting UCA Automation  $\rightarrow$  Monitoring menu options.

				UCA /	Automation					
A Automation	ALL FAIL	ED [1] Waiting For Operator [	6]							
Monitoring	Show Detail	ls								1 of 2 >>
Manual Tests	ID T	Action Name	Action ID	Problem	Mode	Action Originator	Originator	State	Start Time	Result
Topology View	operation conte	ext uca_network alarm_object	1120			-	-			
View Reports	125	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Waiting_Operator	25-Oct-13 04:	
Users	operation_conte	ext uca_network alarm_object	976							
Auto Refresh OFF	102	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Ok	24-Oct-13 01:	PING 0.0.0.0 (127.0.0.1) 5
	operation_conte	ext uca_network alarm_object	988							
	103	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Waiting_Operator	24-Oct-13 01:	
	operation_conte	ext uca_network alarm_object	995							
	105	list_all_available_interfaces	105	test_bsc_interface_failed	Open Loop	alarm	operation_context uca_n	Waiting_Operator	24-Oct-13 02:	
	operation_conte	ext uca_network alarm_object	1016							
	109	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Ok	24-Oct-13 03:	PING 0.0.0.0 (127.0.0.1) 5.
	operation_conte	ext uca_network alarm_object	1027							
	110	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Waiting_Operator	24-Oct-13 03:	
	operation_conte	ext uca_network alarm_object	1113							
	124	test bsc interface	100	bsc_interface_down	Open Loop	alarm	operation context uca n	Failure	25-Oct-13-03	PING 1.2.3.2 (1.2.3.2) 56(8

Figure 8 – Monitor view

The tab option "All" shows the State of all the tests that are currently being run, and also the Failed tests.

If the number of tests increases, it is easier to separately view the Failed tests in "FAILED[x]" tab, and tests where operator's inputs are required, they can be viewed in "Waiting For Operator[x]" tab. The value 'x' represents the number of Actions in these tabs.

The default view shows the State of the Action taken on a given Problem. Note that if the Status is Successful it is not listed here – they can be viewed in Reports menu option.

Field	Description
ID	Task ID
Action Name	Diagnostic Action taken for a given problem
Action ID	Diagnostic Action ID
Problem	The problem symptom
Mode	Diagnostic Action mode Open/Closed loop
Action Originator	alarm/operator
Originator	Alarm Id /Operator Id
State	Waiting_Operator/Request_Sent/In_Progress, Failure, Ok
Start Time	When was the task started
Result	Diagnostic Action results

Table 4 – Monitoring

Any record can be selected, by checking the check box, and its details can be viewed by clicking on the Show Details button.

The result of a failed test can be viewed by selecting the Failed record, as shown in the following figure.

	Print Preview		Print	×
ſ	ID:	19		
		Lefet Les interface		
	Action Name: Action ID:			
		bec_hterface_down		
		Open Loop		
	Action Originator:			
		operation_context uca_network alarm_object 1113		
	State:	Falure		
	Status:	FALED		
	Result:	PING 1.2.3.2 (1.2.3.2) 56(84) bytes of data 1.2.3.2 ping statistics 5 packets transmitted, 0 received, 100% packet loss, time 13999ms		
		<pre>chart version -1 to encodes-UTL*1 stantations-yer&gt;- chart version -1 to encodes-UTL*1 stantations-yer&gt;- charts=0;estimations-1 to encodes-UTL*1 stantations-1 to com&gt;- interversion -1 to encodes-UTL*1 stantations-1 to com&gt;- interversion -1 to encodes-UTL*1 stantations-1 - charts=1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:</pre>		

Figure 9 – Monitor show details

The Result can also be viewed by highlighting the mouse over the record's Result cell.

										User:admin - Role:Adr	ninistrator Logou			
					UCA A	Automation								
CA Automation	ALL	FAILED [ 1	] Waiting For Operato	[6]	00/1/									
Monitoring	Short	v Details	1								1 of 2 >> >			
Manual Tests	ID		Action Name	Action ID	Problem	Mode	Action Originator	Originator	State	Start Time	Result			
Topology View			a_network alarm_obje		Froblem	Mode	Action Originator	Originator	State	Start Time	Result			
View Reports														
ttings		25	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Waiting_Operator	25-Oct-13 04:				
Users 3	operation	_context uc	a_network alarm_obje	ct 976										
Auto Refresh OFF	1	02	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Ok	24-Oct-13 01: Pl	NG 0.0.0.0 (127.0.0.1) 5			
	<ul> <li>operation</li> </ul>	_context uci	a_network alarm_obje	ct 988							PING 0.0.0.0 (127.0.0.1) 56(84) bytes			
	E 1	03	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Waiting_Operator	24-Oct-13 01:	of data. 64 bytes from 127.0.0.1; icmp_seg=1			
	operation	_context uc	a_network alarm_obje	ct 995							ttl=64 time=0.027 ms 6 bytes from 127.0.0.1;			
	E 1	05 list	_all_available_interfaces	105	test_bsc_interface_failed	Open Loop	alarm	operation_context uca_n	Waiting_Operator	24-Oct-13 02:	icmp_seq=2 ttl=64 time=0.022 ms 64 byte			
	<ul> <li>operation</li> </ul>	_context uc	a_network alarm_obje	ct 1016							from 127.0.0.1: icmp_seq=3 ttl=64			
	E 1	09	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Ok	24-Oct-13 03: Pl	time=0.032 ms 64 byte from 127.0.0.1: icmp_seg=4 ttl=64			
	operation	_context uc	a_network alarm_obje	ct 1027							time=0.028 ms 64 byte from 127.0.0.1			
	E 1	10	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Waiting_Operator	24-Oct-13 03:	icmp_seq=5 ttl=64 time=0.026 ms			
	operation	_context uc	a_network alarm_obje	ct 1113							0.0.0.0 ping statistics - 5 packets transmitted,			
	1	24	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Failure	25-Oct-13 03: Pl	loss, time 3999ms rtt			
	<ul> <li>operation</li> </ul>	_context uc	a_network alarm_obje	ct 1053							min/avg/max/mdev = 0.022/0.027/0.032/0.00			
	E 1	12	test_bsc_interface	100	bsc_interface_down	Open Loop	alarm	operation_context uca_n	Waiting_Operator	25-Oct-13 10:	ms			

Figure 10 – Monitor view result

If a test has the state "Waiting for Operator", it indicates that one or more inputs need to be provided by the operator.

Go to the "Waiting For Operator" tab, select the record of your choice by clicking the check box, and provide inputs to the task by clicking on the "Interact" button.

It opens up a new UI, where appropriate values are keyed in, and can be either Approved or Disapproved.

In case the field had been set with default value in the HPSA inventory, the default value for the field would appear in the text box. If the field is editable, this value can be edited before submitting.

In case the field has been set to be non-editable, value will be displayed, but cannot be edited before submitting.

(hp)	Specify parameters for Action: test_bsc_interface
ip address of the interface	ip address configured on the interace
	Approve Disapprove

Figure 11 – Monitor interact page

### **Manual Tests**

An Action (test) can be triggered manually using this interface.

Clicking on UCA Automation  $\rightarrow$  Manual Tests displays a list of Problems, Service Types, Resource Types, and Actions.

Each of these values can be populated using the HP Service Activator inventory system.

hp						User:ad	lmin - Role:Administrator	Logout
			UCA Auto	mation				
UCA Automation								
Monitoring								
Manual Tests	Pro	blem		ervice Type		Element Type		
Topology View	📄 bsc	interface_down	E M	obileServices		C3620		
📴 View Reports						C2610		
Settings						C4503		
🎎 Users						C4500		
Auto Refresh OFF						J2320		
				Start Text	Rest			
				UCA Actions				
	ID 👻	Action Name	Action Type	Description	Action Mode	Output Parser	Dispatch Ty	pe
	106	recover_service	recover_service	recover_service	Open Loop	None	HPSA	
	105	list_all_available_interfaces	list_all_available_interfaces	list_all_available_interfaces	Open Loop	regex	HPSA	
	100	test_bsc_interface	test_bsc_interface	test_bsc_interface	Open Loop	regex	HPSA	

Figure 12 – Manual Tests main page

An action can be performed on selected resource, for a chosen service type and/or problem.

Select a Problem in the "Problem" table by clicking on the check box. All the associated Service Types for Problem will be listed in the "Service Type" table. Select a Service Type from the available list by clicking on the check box. All the associated Resource Types (Element Types) will be listed in the "Resource Type" table. Select a Resource Type by clicking on the check box.

For the above combination, all the available actions possible will be listed in the "UCA Actions" table. One of the Actions can be selected by clicking on the check box, and a test can be performed by clicking on the "Start Test" button.

hp								User:admin - Role:Administrator	Logout
				UCA A	utomation				
JCA Automation									
Monitoring									
Manual Tests		Proble	m		Service Type		Element Type		
Topology View		V bsc_in	terface_down	5	/ MobileServices		C3620		
View Reports									
Settings									
🔒 Users									
Auto Refresh OFF									
					Start Test UCA Actions	Reset			
	ID	•	Action Name	Action Type	Description	Action Mode	Output	Parser Dispatch	Туре
	1	00	test_bsc_interface	test_bsc_interface	test_bsc_interface	Open Loop		gex HP:	SA.

Figure 13 – Manual Tests – Selected action for a problem

Once a Test has been started, the progress can be viewed in the Monitor page. Upon clicking on "Start Test" button, the task goes into Request\_Sent state, and then to In\_Progress state, and then changes to other states.

Details of the various fields in the UCA Actions are as follows:

Field	Description
ID	Action ID
Action Name	Name of the diagnostic action to be performed
Action Type	Recover/resolve, test, audit, read-only-test, internal, escalate
Description	Brief description of the action
Action Mode	Open/Closed loop
Element Type	Resource Type, eg C3620 etc
Output Parser	None/Regular Expression/XPath. The output from the Diagnostic actions can be parsed using either regular expressions or XPath
Dispatch Type	HPSA. Only actions with Dispatch Type HPSA are listed.

Table 5 – Action description

## **Topology View**

Graph depicting the action path taken for a given test can be viewed using this panel.

In order to launch the Neo4J view, edit the following attributes in */opt/UCA-ATM/webapp/UCAAutomation.war/WEB-INF/classes/UCAAutomation.properties* file to reflect the appropriate values.

neo4j\_host=<Neo4J server hostname>

neo4j\_port=<Neo4J port>

Click on the UCA Automation  $\rightarrow$  Topology View launches the Neo4J data browser. Click on the icon as marked in red in the figure below to view the graph.

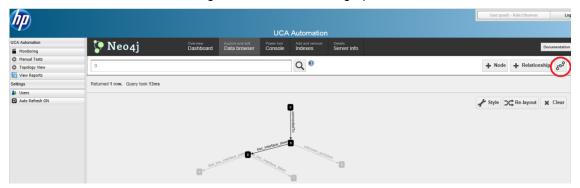


Figure 14 – Topology View – launch Neo4j data browser

### **View Reports**

Once a test has been completed, and it reflects the status as Successful or Failure, this test is moved from the Monitor panel to the reports panel.

hp		User:admin - Role:Administrator Logout
	UCA Automation	
UCA Automation		
Monitoring	Ve Basic Search     From Date :      To Date :      To Date :	
Manual Tests	From Date : To Date : Archive	
Topology View	V Advanced search Status : (Any) V Type : (Any) V Originator : (Any)	×.
View Reports		
Settings	Problem : (Any) v Element Type : (Any) v Element Type : (Any)	v
🎎 Users		
Auto Refresh OFF		
	Search Reset	
	Euport Report Print Report Archive D Accion Name Account Processim Mode Action Originator Originator State	I< < >> >> >> Status Result Start Time End Time
	No items to show.	

Figure 15 – Report search criteria

Search Field	Description
From Date	If set, records are searched from this date onwards
To Date	If set, records are searched up to this date
Status	PASSED, FAILED, DISAPPROVED, INTERNALERROR
Туре	Open Loop/Closed Loop
Originator	Alarm/operator/test
Problem	List of all problems defined in the HPSA inventory
Service Type	List of all service types (domain) defined in the HPSA inventory
Element Type	List of all Element Types defined in the HPSA inventory
Archive	Searches for archived records, if selected

Reports can be searched based on various criteria, as listed in the following table

#### Table 6 – Report search criteria

Report Actions	Description
Search	Search for records with the filter criteria applied. By default, search for all records that are not archived
Export Report	Allows to save the records in CSV format
Print Report	Displays a print preview of the records from

	which the user can print the records
Archive	Archives the selected records. Only enabled when Archive search option is unchecked and logged in with sufficient privileges.
Delete	Selected archived records can be permanently deleted. Enabled when Archive search option is checked.
Reset	Resets the search criteria to default

#### Table 7 – Report actions

Following figure depicts the search results when performed with default options.

חח										User:admin - Role:	Administrator	Logout
$\mathcal{P}$					UCA Auto	mation						
A Automation												
Monitoring	Basic Search				_							
Manual Tests	From Date :		To Date :		<b></b>	Archive						
Topology View	<ul> <li>Advanced Search</li> </ul>											
View Reports												
tings												
Users												
Auto Refresh OFF												
						earch	Reset					
	Export R		t Report	Archive	Mode	Action Originator	Originator	State	Status	Result		
	E 10	eport Prin Action Name	ACIONIO	Archive	Mode	Action Originator	Originator	State	Status	Result	1 Start Time	of 4 >> End Time
	E 10	Action Name	ACIONIO		Mode Open Loop	Action Originator alarm	Originator operation_context uc	State		Result Template: Cisco/sho	Start Time	
	ID     operation_context u	action Name ca_network alarm_object	Action to 1 969	Problem							Start Time	End Time
	operation_context u 101 100	Action Name ca_network alarm_object list_all_available_int	4000110 1969 105 100	eroorem test_bsc_interface_f	Open Loop	alarm	operation_context uc	Failure	INTERNALERROR	Template: Cisco/sho	Start Time	End Time
	operation_context u 101 100	Action Name ca_network alarm_object list_all_available_int test_bsc_interface	4000110 1969 105 100	eroorem test_bsc_interface_f	Open Loop	alarm	operation_context uc	Failure	INTERNALERROR FAILED	Template: Cisco/sho	Start Time 24-Oct-13 11:. 24-Oct-13 11:.	End Time 24-Oct-13 24-Oct-13
	operation_context u     101     operation_context u	Action Name ca_network alarm_object list_all_available_int lest_bsc_interface ca_network alarm_object	Accorner 1969 105 100 100	test_bsc_interface_f bsc_interface_down	Open Loop Open Loop	alarm	operation_context uc operation_context uc	Failure Failure	INTERNALERROR FAILED	Template: Cisco/sho PING 1.2.3.3 (1.2.3	Start Time 24-Oct-13 11: 24-Oct-13 11: 24-Oct-13 02:	End Time 24-Oct-13 24-Oct-13 24-Oct-13
	0 operation_context u 101 0 operation_context u 0 operation_context u 107 107 106	Action Name ca_network alarm_object list_all_available_int test_bsc_interface ca_network alarm_object list_all_available_int	Action no 1 969 105 100 100 105 105 100	test_bsc_interface_f	Open Loop Open Loop Open Loop	alarm alarm alarm	operation_context uc operation_context uc operation_context uc	Failure Failure Failure	INTERNALERROR FAILED INTERNALERROR	Template: Cisco/sho PING 1.2.3.3 (1.2.3 Template: Cisco/sho	Start Time 24-Oct-13 11: 24-Oct-13 11: 24-Oct-13 02:	End Time 24-Oct-13 24-Oct-13 24-Oct-13
	0 operation_context u 101 0 operation_context u 0 operation_context u 107 107 106	Action Name ca_network alarm_object list_all_available_int test_bsc_interface ca_network alarm_object list_all_available_int test_bsc_interface	Action no 1 969 105 100 100 105 105 100	test_bsc_interface_f	Open Loop Open Loop Open Loop	alarm alarm alarm	operation_context uc operation_context uc operation_context uc	Failure Failure Failure	INTERNALERROR FAILED INTERNALERROR	Template: Cisco/sho PING 1.2.3.3 (1.2.3 Template: Cisco/sho	Start Time 24-Oct-13 11:. 24-Oct-13 11:. 24-Oct-13 02:. 24-Oct-13 02:.	End Time 24-Oct-13 24-Oct-13 24-Oct-13 24-Oct-13
	D operation_context u 101 00 operation_context u 105 00 operation_context u 106 00 00 operation_context u 104	Halion Name ca_network alarm_object list_all_available_int lest_bsc_interface ca_network alarm_object list_all_available_int lest_bsc_interface ca_network alarm_object	200001107 105 100 100 100 100 100 100 100 100	HOUVENN lest_bsc_interface_f bsc_interface_down lest_bsc_interface_f bsc_interface_down	Open Loop Open Loop Open Loop Open Loop	alarm alarm alarm alarm	operation_context uc operation_context uc operation_context uc operation_context uc	Failure Failure Failure Failure	INTERNALERROR FAILED INTERNALERROR FAILED	Template: Cisco/sho PING 1.2.3.3 (1.2.3 Template: Cisco/sho PING 1.2.3.2 (1.2.3	Start Time 24-Oct-13 11:. 24-Oct-13 11:. 24-Oct-13 02:. 24-Oct-13 02:.	End Time 24-Oct-13 24-Oct-13 24-Oct-13 24-Oct-13

Figure 16 – Report default search

Individual records in the search result can be selected, and can be moved to Archive by clicking on the "Archive" button.

Results can be printed by clicking on the "Print Report" button.

Results can be exported into CSV format by clicking on the "Export Report" button.

Following figure depicts the search results when performed with Archive option enabled. The archived records can be selected and permanently deleted by clicking on the "Delete" button.

											User:admin - Role:	Administrator	Logout
P						UCA Auto							
A Automation							malion						
Monitoring	✓ Basic	Search											
Manual Tests	Fro	om Date :		To Date :			Archive						
Topology View	^ Advar	nced Search											
View Reports													
tings													
Users													
Auto Refresh OFF													
												1	of 4 >> >
		ID Export	Report Print	ACIUM ID	Propiem	Mode	Action Originator	Originator	State	Status	Result	Start Time	End Time
		ID		ACIOITIO		Mode	Action Originator	Originator	State	Status	Result	Start Time	
		ID	Action Name	ACIOITIO		Mode Open Loop	Action Originator alarm	Originator operation_context uc	State Ok	Status PASSED	Result Interface IP-Address .		End Time
	🖃 opera	IDition_context	Action Name	ACION 10 t 1078	PTODRIM							25-Ocl-13 01:.	End Time
	i opera	IDation_context	Action Name uca_network alarm_object list_all_available_int	Acionio t 1078 105	Probem test_bsc_interface_f	Open Loop	alarm	operation_context uc	Ok	PASSED	Interface IP-Address .	25-Oct-13 01: 25-Oct-13 01:	End Time
		10 ation_context 117 116 108	Action Name uca_network alarm_object list_all_available_int test_bsc_interface	Aciion10 t 1078 105 100	test_bsc_interface_f bsc_interface_down	Open Loop Open Loop	alarm	operation_context uc operation_context uc	Ok Failure	PASSED	Interface IP-Address . PING 1.2.3.2 (1.2.3	25-Oct-13 01: 25-Oct-13 01:	End Time
		10 ation_context 117 116 108	Action Name uca_network alarm_object list_all_available_int test_bsc_interface	Aciion10 t 1078 105 100	test_bsc_interface_f bsc_interface_down	Open Loop Open Loop	alarm	operation_context uc operation_context uc	Ok Failure	PASSED	Interface IP-Address . PING 1.2.3.2 (1.2.3	25-Oct-13 01: 25-Oct-13 01:. 24-Oct-13 03:.	End Time 
	i opera	ID	uca_network alarm_object list_all_available_int test_bsc_interface test_bsc_interface	Action no <b>1078</b> 105 100 100 100	test_bsc_interface_f bsc_interface_down bsc_interface_down	Open Loop Open Loop Open Loop	alarm alarm alarm	operation_context uc operation_context uc operation_context uc	Ok Failure Failure	PASSED FAILED INTERNALERROR	Interface IP-Address . PING 1.2.3.2 (1.2.3 Network element: nul.	25-Oct-13 01: 25-Oct-13 01:. 24-Oct-13 03:.	End Time 
	i opera	ID	Action Name suca_network alarm_objec list_all_available_int test_bsc_interface test_bsc_interface test_bsc_interface	Action no <b>1078</b> 105 100 100 100	test_bsc_interface_f bsc_interface_down bsc_interface_down	Open Loop Open Loop Open Loop	alarm alarm alarm	operation_context uc operation_context uc operation_context uc	Ok Failure Failure	PASSED FAILED INTERNALERROR	Interface IP-Address . PING 1.2.3.2 (1.2.3 Network element: nul.	25-Oct-13 01:. 25-Oct-13 01:. 24-Oct-13 03:. 25-Oct-13 10:.	End Time 25-Oct-13 24-Oct-13 25-Oct-13
	i opera	ID ation_context 117 116 108 n 113 ation_context 114	Action Name t uca_network alarm_objec list_all_available_int lest_bsc_interface lest_bsc_interface test_bsc_interface tuca_network alarm_objec	ADDITING 1078 105 100 100 100 100 100 100 100	Lest_bsc_interface_f bsc_interface_down bsc_interface_down bsc_interface_down	Open Loop Open Loop Open Loop Open Loop	alarm alarm alarm operator	operation_context uc operation_context uc operation_context uc admin	Ok Failure Failure Ok	PASSED FAILED INTERNALERROR PASSED	Interface IP-Address . PING 1.2.3.2 (1.2.3 Network element: nul. PING 0.0.0.0 (127.0	25-Oct-13 01:. 25-Oct-13 01:. 24-Oct-13 03:. 25-Oct-13 10:.	End Time 25-Oct-13 25-Oct-13 24-Oct-13 25-Oct-13
	i opera	ID ation_context 117 116 108 n 113 ation_context 114	vicion Name uca_network alarm_object ist_all_available_imi_ test_bsc_interface test_bsc_interface : uca_network alarm_object test_bsc_interface	ADDITING 1078 105 100 100 100 100 100 100 100	Lest_bsc_interface_f bsc_interface_down bsc_interface_down bsc_interface_down	Open Loop Open Loop Open Loop Open Loop	alarm alarm alarm operator	operation_context uc operation_context uc operation_context uc admin	Ok Failure Failure Ok	PASSED FAILED INTERNALERROR PASSED	Interface IP-Address . PING 1.2.3.2 (1.2.3 Network element: nul. PING 0.0.0.0 (127.0	25-Oct-13 01: 25-Oct-13 01: 24-Oct-13 03: . 25-Oct-13 10: . 25-Oct-13 10:	End Time 25-Oct-13 24-Oct-13 25-Oct-13 25-Oct-13
	i opera	ID ation_context 117 116 108 n 113 ation_context 114 ation_context	vicion Name uca_network alarm_object ist_all_availabe_int	ADDIVITION 1078 105 100 100 100 100 100 100 100	resuber lest_bsc_interface_f bsc_interface_down bsc_interface_down bsc_interface_down bsc_interface_down	Open Loop Open Loop Open Loop Open Loop Open Loop	alarm alarm alarm operator alarm	operation_context uc operation_context uc operation_context uc admin operation_context uc	Ok Failure Failure Ok Ok	PASSED FAILED INTERNALERROR PASSED PASSED	Interface IP-Address . PING 1.2.3.2 (1.2.3 Network element. nul. PING 0.0.0.0 (127.0 PING 0.0.0.0 (127.0	25-Oct-13 01:. 25-Oct-13 01:. 24-Oct-13 03:. . 25-Oct-13 10:. . 25-Oct-13 10:. 25-Oct-13 01:.	End Time 25-Oct-13 25-Oct-13 25-Oct-13 25-Oct-13 25-Oct-13 25-Oct-13 25-Oct-13

Figure 17 – Report search for archived records

### Populate HP Service Activator Inventory data

HP Service Activator inventory must be populated with the following data:

### 7.1 Pre-requisites

HP Service Activator V62-1A has been installed, and CRModel and the UCA Automation foundation SP have been deployed.

### 7.2 Login

Once the HP Service Activator service is started, login to HP Service Activator portal by accessing the following URL:

http://<hostname or IP address>:<port #>/activator/jsp/login.jsp

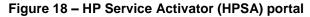
Here

<hostname or IP address> should be replaced by the actual hostname (full DNS name) or IP address of the HP Service Activator system. If HP Service Activator is running on your local host, you can use ,localhost' as the name of the host to connect to using your web browser.

<port #> is the port number for HP Service Activator portal, 8080 by default.

Login to the portal using the administrator privileges.

Service A	Activator						()	YOOCE	Help Log Out Welcome admin
Work Area	Active J	obs							
Messages	Running Jo	bs Scheduled J	obs						
Audit Messages Track Activations	<								>
Workflows						Retrieve limited jobs	$\checkmark$		Results
Services	Job Id 🔺	Service Id	Hostname	Workflow	Status	Start Time	Step	Description	
Inventory Service Instances	No jobs av	ailable.							
Logs									
Search Logs									
Service Order View Business Calendar									
Tools									
Refresh ON									
Self Management									



Click on the Inventory Menu option to launch the HPSA Inventory

Inventory	Class Views	Instance Views	( <b>p</b> )
UCA/Netwo	orkResources X	CRModel/Equipment	
	twork Resources	CRModel/Parameters	
		CRModel/NNMiDataload	
		UCA/Services	
		UCA/NetworkResources	
		UCA/ActionFramework	
		UCA/Parameters	

Figure 19 – HPSA inventory

The instances CRModel/Equipment, CRModel/Parameters and CRModel/NNMiDataload represents the inventory model provided by CRModel when HPSA product is installed and CRModel service pack is deployed.

When UCA Automation service pack is deployed, we get the UCA/Services, UCA/NetworkResources, UCA/Actionframework and UCA/Parameters inventory model.

### 7.3 HP Service Activator Inventory

HPSA Inventory provides a skeleton to create the Resource Types, Resource instances, Problems and Actions as inventory objects. Once they are available, a relationship tree representing the Action to be taken for a given Problem can be producted, that is used by the UCA Automation solution to identify the steps to be followed in the Problem resolution process.

### 7.3.1 UCA/NetworkResources

UCA/NetworkResources provides options to define Resource Vendor's, Resource Types, and Resource Instances.

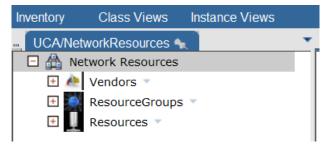


Figure 20 – HPSA Inventory – UCA/NetworkResources

Create a new Vendor by mouse right click on UCA/NetworkResources  $\rightarrow$  Network Resources  $\rightarrow$  Vendors  $\rightarrow$  Create New Vendor option.

Enter the value for VendorName and click on OK to create a new vendor instance.

Inventory C	class Views	Instance Views						Ø
UCA/Network	kResources 🐴	R	•	Create New Vendo	or 🔩			
	rk Resources	eate New Vendor			Cre	eate New Vendor		
	sourceGroups	-		Name	Value	e de la companya de l	Description	
	sources 🔻			VendorName *			Primary key	
						OK Reset		

Figure 21 – HPSA Inventory – UCA/NetworkResources – Create New Vendor

Vendor instance can be viewed or deleted by mouse right click on the vendor, and choosing appropriate action.

Inventory Class Views Instance View	IS				Ø
UCA/NetworkResources 🔩	•	View Juniper 🔩			
🖻 📇 Network Resources				_	
🖸 🚈 Vendors 🔻			View Ven	dor	
🖸 📥 Cisco 🔻					
🖸 🚵 Juniper 🖂		Name	Value	Description	
王 🌉 ResourceGi 🔍 View Juniper		VendorName *	Juniper	Primary key	
🕀 🛄 Resources 👔 Delete Juniper					

Figure 22 – HPSA Inventory – UCA/NetworkResources – View Vendor

Before creating any resource instance, we must create ResourceGroups, that identifies the resource type.

Create a new resource group instance by mouse right click on

UCA/NetworkResources  $\rightarrow$  Network Resources  $\rightarrow$  ResourceGroups  $\rightarrow$  Create New Resource Group option.

Enter the value for resource group name, choose among the device vendor instances available, and click on OK to create a new resource group.

Inventory	Class Views	Instance Views				Ø
UCA/Net	workResources 🦴	· · · ·	Create New Re	esource Group 🔩 🗋		
E 🕭	twork Resources		C	reate New Elem	entTypeGroup	
	<ul> <li>Cisco </li> <li>Juniper </li> </ul>		Name	Value	Description	_
- 🧕	ResourceGroups	-4	Name *		Device family name	
	C2600 - C3600 -	💯 Create New Resou	Description		Device family information	
	C4500 🔻 Resources 🔻		Vendor *	Cisco 🗸	Vendor delivering the type of device	
				OK R	leset	
1						

Figure 23 – HPSA Inventory – UCA/NetworkResources – Create New Resource Group

Resource group instance can be viewed, edited or deleted by mouse right click on the ResourceGroups instance, and choosing appropriate action.

Inventory Class Views Instance Views					
UCA/NetworkResources 🔩	•	Edit J23	00 🔩		
E 📇 Network Resources					( <b>-</b> -
🛨 🚈 Vendors 🔻				View Eler	nentTypeGroup
🖃 🌉 ResourceGroups 🔻					
🖸 🌉 C2600 🔻		Nar	ne	Value	Description
🖸 🌉 C3600 🗵		Nam	ne *	J2300	Device family name
🖸 🌉 C4500 🔻		Des	cription	Juniper family	Device family information
🖸 🊺 J2300 🗸		Ven	dor *	Juniper	Vendor delivering the type of device
🛨 🛄 Resource: 🔍 View J2300	- 1				
📝 Edit J2300					
🔀 Delete J2300					
Figure 24 – HPSA I	nve	ntory –	UCA	/Network	Resources – View Resou

Group

Create a new resource instance by mouse right click on

UCA/NetworkResources  $\rightarrow$  Network Resources  $\rightarrow$  Resources  $\rightarrow$  Create New Resource option.

Enter the value for resource instance, choose among the available resource groups device instances, and click on OK to create a new resource instance.

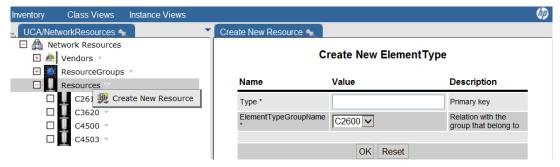


Figure 25 – HPSA Inventory – UCA/NetworkResources – Create New Resource Type

Resource instance can be viewed, edited or deleted by mouse right click on the Resource instance, and choosing appropriate action.

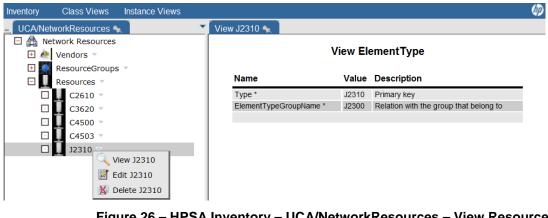


Figure 26 – HPSA Inventory – UCA/NetworkResources – View Resource Type

### 7.3.2 UCA/Services

UCA/Services provides option to capture the domain name (service name) to be supported.

Inventory	Class Views	Instance Views	
UCA/Sen	/ices 🔩 🕺		•
🕀 🤷 Se	rvices 🔻		

Figure 27 – HPSA Inventory – UCA/Services

Create a new service by mouse right click on UCA/Services  $\rightarrow$  Services  $\rightarrow$  Create New Service.

Enter the value for service and click on OK to create a new service type.

Inventory Class Views Instance Views		(III)
🗉 UCA/Services 🔩	Create New Service	
Services     Services     Create New Service		Create New ServiceType
	Name Value	Description
	Type *	Type of Service
		OK Reset

Figure 28 – HPSA Inventory – UCA/Services – Create New Service Type

Service instance can be viewed, edited or deleted by mouse right click on the Service instance, and choosing appropriate action.

Inventory C	lass Views	Instance Views				Þ
UCA/Service	s 🔩 🗋		View MobileSe	rvices 🔩		
🖃 🤷 Service	es – bileServices_	~	_	View S	erviceType	
		View MobileServices	Name	Value	Description	
		M Delete MobileServices	ld * Type *	100 MobileServices	Primary key Type of Service	
			Type *	MobileServices	Type of Service	

Figure 29 – HPSA Inventory – UCA/Services – View Service Type

### 7.3.3 UCA/ActionFramework

UCA/ActionFramework provides options to define the various Problems, Actions, and Actions to Resource mappings. Once created, the ActionFramework can be exported into a file. This file now can be edited to be used as an input for Neo4J graph.

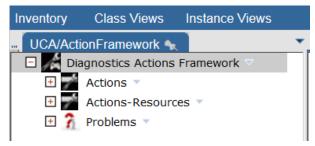


Figure 30 – HPSA Inventory – UCA/ActionFramework

Create a new action by mouse right click on UCA/ActionFramework  $\rightarrow$  Diagnostics Actions Framework  $\rightarrow$  Actions  $\rightarrow$  Create New Action.

Enter the name for Action, action Type (recover/resolve, test, audit, read-only-test, internal, escalate), ActionMode (Open Loop, Closed Loop, None), OutputParser (None, regex, xpath), DispatchType (HPSA, OO, ShellScript, Alarm, Trouble Ticket) and click on OK to create a new action.

Inventory	Class Views	Instance Views						Ø
UCA/Act	ionFramework 🔩		•	Create New Action	* <sup>1</sup>			
- / Di	agnostics Actions I Actions Actic 🏨 Create				Create New	Automa		
H 👔	Problems 🔻			Name	Value		Description	
				Name *			Action name	
				Description			Action description	
				Туре	recover/resolve		Type of test	
				ActionMode	Open Loop 🔽		Action mode open or closed loop	
				OutputParser	None 🗸		Parser to parse output of an Action	
				DispatchType	HPSA 🗸		Where is Action dispatched for executon	
				Cost			Cost accosiated with this Action	
					Ok	K Reset		

Figure 31 – HPSA Inventory – UCA/ActionFramework – Create New Action

Action Type	Description	
Recover/Resolve	Action that can recover or resolve a Problem symptom	
Test	Actions performed to test the network	
Audit	Action to audit a pre-defined configuration	
Read-only-test	Read only actions performed on the network	
Internal	Trouble Ticket and Alarm handling actions	
Escalate	Actions to escalate when a problem resolution is not performed	

#### Table 8 – Action Types

Action Mode	Description
Open Loop	Actions that require operator intervention. The operator can optionally disapprove a test
Closed Loop	Actions that do not require operator intervention.
None	If set to None, the value set in the Parameters->GlobalParameter->ActionMode will be used

#### Table 9 – Action Modes

Output Parser Description
---------------------------

Regex	The action output is parsed using regular expressions.
Xpath	The action output is parsed using XPaths.
None	Action outputs are not parsed if this options is selected

Dispatch Type	Description
HPSA	Action is dispatched to HP Service Activator for execution.
00	HP Object Orchestration. For future possible integration
ShellScript	Action that can be executed using a shell script. For future possible integration
Alarm	An internal Alarm handling action. Possible operations could be Alarm creation/updation
Trouble Ticket	An internal Trouble Ticket action. Possible operations could be Trouble Ticket creation/updation/close

#### Table 10 – Output Parsers

#### Table 11 – Dispatch Types

Action instance can be viewed, edited or deleted by mouse right click on the Actions instance, and choosing appropriate action.

Inventory	Class Views	Instance Views					Ø
UCA/Act	tionFramework 🔩		-	View check_tt 🔩			
E 🔏 Di	agnostics Actions Actions 🔻	Framework 🔻			View A	utomationAction	
+	100.	/iew check_tt		Name	Value	Description	
+	📝 create_ 📝 E	Edit check_tt		ld *	120	Primary key	ī
+		Delete check_tt		Name *	check_tt	Action name	
+				Description	check_tt	Action description	
	-			Туре	test	Type of test	
+	recover_serv	ice 🔻		ActionMode	Closed Loop	Action mode open or closed loop	
+	test_bsc_int	erface 🔻		OutputParser	None	Parser to parse output of an Action	
+	update_alarn	n_and_check_tt 🔻		DispatchType	Trouble Ticket	Where is Action dispatched for executon	
+	update_tt 🔻			Cost		Cost accosiated with this Action	
+ 🏸	Actions-Resourc	es 🔻					
E 👔	Problems 🔻						

Figure 32 – HPSA Inventory – UCA/ActionFramework – View Action

Each Action instance can be designed to take one or more parameters as input.

If the action mode is Open Loop, the operator can key in the input parameter at run time to supplement the alarm request.

If the action mode is Closed Loop, the input parameter value must be mapped from one of the fields in the Problem Alarm.

Create a new input parameter for an action by mouse right click on

UCA/ActionFramework  $\rightarrow$  Diagnostics Actions Framework  $\rightarrow$  Actions  $\rightarrow$  *<Action* Instance>  $\rightarrow$  Create InputParameters.

Enter the Name of the input parameter, data Type of the input parameter (String, int, Boolean), give a human readable Label to this input parameter, DefaultValue to the input parameter in case no value could be set to the input parameter, set the Editable flag to indicate whether the value is editable. Click on the OK button to create the input parameter.

Inventory Class Views Instance Views				Ø
UCA/ActionFramework 🔩	Create InputParame	eters 🐀		
Diagnostics Actions Framework 👻		0	te New Demonster	
🖃 🚰 Actions 🤟		Crea	te New Parameter	
🕀 📷 check_tt 🗸				
🛨 📝 close_tt/dissociate_tt 🗸	Name	Value	Description	
🛨 🐋 create_tt 🤟	Name *		Parameter name	
🖃 📷 list_all_available_interfaces 👻	Type *	String V	Parameter type	
InputParameters		Journal 1		
🛨 🕋 🦛 Create InputParameters	Label		Parameter label	
+ Frecover_service -	Description		Parameter description	
표 📷 terminate_alarm 🤟				
🖅 📝 test_bsc_interface 🤟	DefaultValue		Parameter default value	
🕀 📷 update_alarm_and_check_tt 🤟	Editable		Is the parameter value editable before execution in open loop tests	
🛨 📝 update_tt 👻	ActionId	list_all_available_interfaces 🗸	Action the Parameter belongs to	
🖅 📝 Actions-Resources 🤟		1		
🕀 🚹 Problems 👻			OK Reset	

Figure 33 – HPSA Inventory – UCA/ActionFramework – Create New Input Parameter

Input parameter can be viewed, edited or deleted by mouse right click on the Input Parameter instance, and choosing appropriate action.

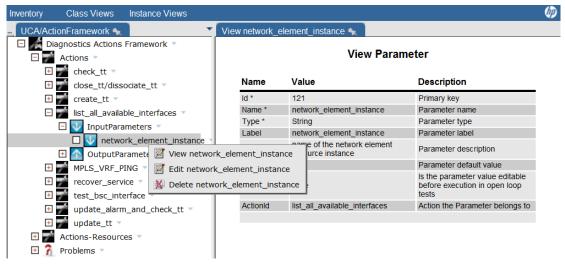


Figure 34 – HPSA Inventory – UCA/ActionFramework – View Input Parameter

Action involves invoking HP Service Activator workflows to perform specific task on the resource instance, and that may result in return of one or more values as output parameter, that can be used to take more granular decision in the problem resolution process.

Create a new output parameter for an action by mouse right click on

UCA/ActionFramework  $\rightarrow$  Diagnostics Actions Framework  $\rightarrow$  Actions  $\rightarrow$  *<Action* Instance>  $\rightarrow$  Create OutputParameters.

Enter the Name of the output parameter. Click on the OK button to create the output parameter.

Inventory Class Views Instance Views				Ø,
UCA/ActionFramework 👟 💽 🗸	Create OutputPara	neters 🔩		
Diagnostics Actions Framework      Actions		Creat	e New Parameter	
	Name	Value	Description	_
+ create_tt -	Name *		Parameter name	
<ul> <li>Iist_all_available_interfaces</li> <li>InputParameters</li> </ul>	Type *	String 🔽	Parameter type	
OutputParameters	Label		Parameter label	
🖸 🚹 ava 👎 Create OutputParamete	Description		Parameter description	
The cover_service      The cover_service      The cover_service	DefaultValue		Parameter default value	
🛨 📝 test_bsc_interface 🤟	Editable		Is the parameter value editable before execution in open loop tests	
	ActionId	list_all_available_interfaces 🗸	Action the Parameter belongs to	
<ul> <li></li></ul>			OK Reset	

Figure 35 – HPSA Inventory – UCA/ActionFramework – Create New Output Parameter

Output parameter can be viewed, edited or deleted by mouse right click on the Output Parameter instance, and choosing appropriate action.

Inventory Class Views Instance View	/S			
UCA/ActionFramework 🔩		View available_in	terface_name 🔩	
🖸 🔏 Diagnostics Actions Framework 🔻			10	- (
E 📝 Actions 🔻			Vie	ew Parameter
🕀 📷 check_tt 👻				<b>–</b>
🛨 📝 close_tt/dissociate_tt 🔻		Name	Value	Description
🛨 📝 create_tt 🔻		ld *	120	Primary key
Iist_all_available_interfaces	-	Name *	available_interface_	name Parameter name
🗄 👽 InputParameters 🔻		Type *	String	Parameter type
		Label	available_interface_	name Parameter label
	_ 1	Description	name of the free inte	erface Parameter description
🔄 🖸 🚹 available_interface_n	ame 🔻 🛛	DefaultValue		Parameter default value
MPLS_VRF_PING     recover_service		vailable_interface_i		Is the parameter value editable before execution in open loop tests
	🗹 Edit av	ailable_interface_n	/ailable_int	erfaces Action the Parameter belongs to
	🐇 Delete	available_interface	_name	
🖽 📝 update_alarm_and_check_t	· · · · ·			
🛨 📝 update_tt 🔻				
🕂 📝 Actions-Resources 🔻				
🕀 👔 Problems 🔻				

Figure 36 – HPSA Inventory – UCA/ActionFramework – View Output Parameter

An alarm from a Resource Instance (device) can be identified as a Problem in the UCA Automation solution. Each of these problems can be associated with an action to be taken as a part of resolution. Various Problems that can occur in the device can be captured in this HPSA Inventory object.

Create a new Problem instance by mouse right click on

UCA/ActionFramework  $\rightarrow$  Diagnostics Actions Framework  $\rightarrow$  Problems  $\rightarrow$  Create New Problem.

Enter the Name of the Problem, associate this Problem with a Service (domain), associate this Problem with a resolution Action, and an indication if this is the Root Level Problem.

Field	Description
Primary Problem	Indicates if the problem can be tested as an independent test.
Root Level Problem	For use by Neo4J graph DB to attach to the root node of the service name (domain)

ActionTraversalPath	This attribute is significant only for secondary problems which originate from internal actions like trouble ticketing or alarm handling. The value can be either 'true' or 'false' depending upon result of originating action. For all non-internal actions, this value should be set to 'None'
---------------------	---

#### Table 12 – Problem Types

NOTE: '**Unknown Symptom**' represents a problem that does not fit in the given domain. Any coorelated alarm that is not represented as a problem in the domain takes the 'Unknown Symptom' resolution path. The problem must be named as "unknown\_symptom" for such cases to be handled as expected in the graph. Else the alarm is updated and a trouble ticket is updated or created.

A sample path taken by the Unknown Symptom is as shown below.

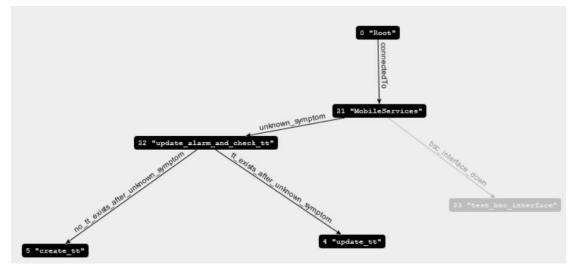


Figure 37 – Neo4J Graph sample Unknown Symptom path

Click on the OK button to create the Problem instance.

Inventory Class Views Instance Views	Create New Problem 🔩		
Diagnostics Actions Framework  Actions		Create New F	Problem
Actions-Resources	Name	Value	Description
🕀 🎢 Probler 🎉 Create New Problem	Name *		Problem Alarm symptom
	Service *	MobileServices -	Service Type that Problem is associated with
	ActionName *	check_tt	<ul> <li>Action to diagnose the problem</li> </ul>
	PrimaryProblem *		Indicates if this is the Primary problem
	RootProblem *		Indicates if this is the Root Level problem
	ActionTraversalPath	None 🔻	This attribute is significant only for secondar problems which originate from internal action like trouble ticketing or alarm handling. The value can be either 'true' or 'false' depnding upon result of originating action. For all non internal actions, this value should be set to 'None'
		OK Re	set

Figure 38 – HPSA Inventory – UCA/ActionFramework – Create New Problem

Problem instance can be viewed, edited or deleted by mouse right click on the Problem instance, and choosing appropriate action.

Inventory Class Views Instance Views				Ø					
🚥 UCA/Parameters 🗙 UCA/ActionFramework 🔙 Vie	w bsc_interface_d	own 🔩							
Diagnostics Actions Framework 🔻	View Problem								
Actions-Resources     Actions     Problems	Name	Value	Description						
□ 2 bsc_interface_down	ld * Name *	112 bsc interface down	Primary key Problem Alarm symptom						
<ul> <li>? list_all_av</li> <li>View bsc_interface_down</li> <li>? list all av</li> <li>Edit bsc_interface_down</li> </ul>	Service *	MobileServices	Service Type that Problem is associated with						
no_tt_exi M Delete bsc_interface_down	Action * PrimaryProblem *	test_bsc_interface true	Action to diagnose the problem Indicates if this is the Primary problem						
<ul> <li>7 no_tt_exists_after_recover_service_fa</li> <li>7 no_tt_exists_after_recover_service_p.</li> </ul>	RootProblem *	true	Indicates if this is the Root Level problem						

Figure 39 – HPSA Inventory – UCA/ActionFramework – View Problem

HPSA Inventory object Actions-Resources associated an action to one or more Resource Types. This indicates that the resolution action can be carried out on the selected ResourceType.

Create a new Actions-Resources instance by mouse right click on

UCA/ActionFramework  $\rightarrow$  Diagnostics Actions Framework  $\rightarrow$  Actions-Resources  $\rightarrow$  Create New Action to Resource.

Select the available actions from the drop down, and associate it with one or more ResourceTypes. Click on OK to create the association.

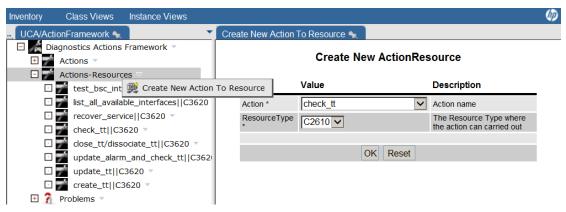


Figure 40 – HPSA Inventory – UCA/ActionFramework – Create New Action to Resource Mapping

HPSA Inventory provides a mechanism to create an XML file that contains the list of all Actions, Problems, and Actions-Resources associations.

This XML file can be manually updated to associate the Problems to Actions and that can be uploaded into the Neo4J graph database so that it can be used by UCA Automation solution for decision making.

Export the Action Framework by mouse right click on

UCA/ActionFramework  $\rightarrow$  Diagnostics Actions Framework  $\rightarrow$  Export Action Framework.

Enter the absolute path and XML file name. Click on OK to export the file.

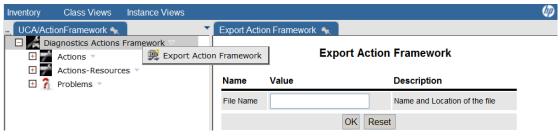


Figure 41 – HPSA Inventory – UCA/ActionFramework – Export Action Framework

**NOTE**: The parameters in the file

/opt/OV/ServiceActivator/solutions/UCA/etc/template\_files/GraphDBUtilities.properties must be set before using this feature.

**NOTE**: The absolute path entered must be the path in the HPSA server.

### 7.3.4 UCA/Parameters

Global Parameters that needs to be used in the application can be viewed or edited from Parameters  $\rightarrow$  Global Parameters  $\rightarrow$  Global Parameters.

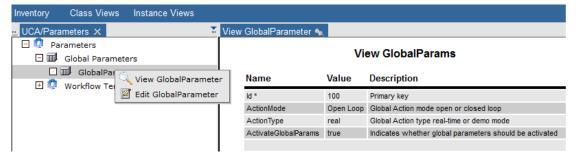


Figure 42 – HPSA Inventory – UCA/Parameters – Global Parameters

Parameter	Description							
ActionMode	Open loop / Closed loop. This value is considered if Action instance ActionMode value is set to None.							
Action Type	Real-time / demo mode. It indicates the HPSA Activation Engine to skip connecting to the resources (devices) if set as demo mode.							
ActivateGlobalParams	The Global parameters can be switched off by setting this to false. The Action Mode and Type that are set in the individual Actions will be used.							

#### Table 13 – Global Parameters

For a given ServiceType (domain), Problem to Action association must be handled by HP Service Activator workflow.

This association is captured in this HPSA inventory object.

Create a new HPSA Workflow association by mouse right click on

UCA/Parameters  $\rightarrow$  Workflow Templates  $\rightarrow$  Create Workflow Templates.

UCA/Parameters	Create Workflow Ten		
Workflow Templates     MobileServices  b     Wg Crea	te Workflow Templat	es Je	Description
🖸 🧔 MobileServices  test_bsc	ServiceType *	MobileServices V	Type of Service
🖸 🧔 MobileServices  list_all_a	Problem *	bsc_interface_down	Problem Alarm symptom
	Action *	check_tt	Action name
	Workflow *		Name of workflow
		OK Reset	
Figure 43	– HPSA Inv	entory – UCA/Parameters – Create Template	New Workflow

Workflow associations can be viewed or deleted by mouse right click on the Workflow Template instance, and choosing appropriate action.

Inventory Class Views Instance Views									
UCA/NetworkResources X UCA/ActionFramework X UCA/Parameters 🔩	View	MobileServices  bsc_	_interface_down  test_bsc_interface	Domain_Controller 🔩					
🖻 🗔 Parameters									
🗄 🗊 Global Parameters		View Workflow Template							
🖂 🧔 Workflow Templates 👻									
MobileServices] bsc_interface_down  test_bsc_interface  Domain_Controller	L.,	Name	Value	Description					
🖸 💿 MobileService 🔍 View MobileServices  bsc_interface_down  test_bsc_interface  Domain_Contro		ServiceType *	MobileServices	Type of Service					
🖸 👩 MobileService 🐒 Delete MobileServices  bsc_interface_down  test_bsc_interface  Domain_Contr		Problem *	bsc_interface_down	Problem Alarm symptom					
		Action *	test_bsc_interface	Action name					
		Workflow *	Domain_Controller	Name of workflow					

Figure 44 – HPSA Inventory – UCA/Parameters – View Workflow Template

### Populate Neo4J Graph DB data

The data in the Neo4J graph DB can be populated using the XML as input. The XML is produced in two steps:

- 1. In the HPSA inventory, create all the Actions, Problems, and Action-Resource associations.
- 2. Once completed, export the Action framework, in the file system.
- 3. This XML file contains the <problem> blocks with the following structure.



Figure 45 – Neo4J XML - <problem> block

The tag <rootproblem> indicates that the specific problem is the parent problem, while generating the Neo0j graph.

4. This XML file also contains the <action> blocks with the following structure.

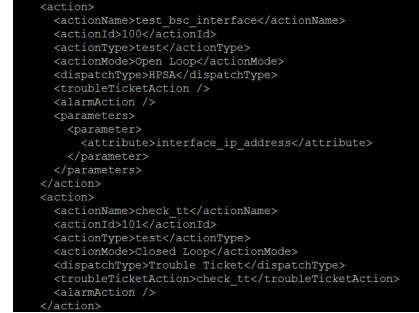


Figure 46 – Neo4J XML - <action> block

5. In the XML, there will be a block with <DecisionTree> tag, representing the service/domain.



Figure 47 – Neo4J XML - <DecisionTree> block

- a. The above block contains the Problem to Action relationship. Based on the outcome of the above Action, next set of Actions need to be defined. This relationship has to be manually built for each Problem in the <DecisionTree> block. Within the <nextAction> block, the outcome from the Action is represented as <actionOutput> tag and new Action to be taken for this outcome is represented as <subAction> tag.
- b. Each of the next Action is already represented as an Action object in the HPSA inventory.
- c. Each of the possible outcome from an Action is already represented as a Problem object in the HPSA inventory.



Figure 48 - Neo4J XML - <problem> to <action> association

- d. In the above snippet, the possible outcomes for the Action test\_bsc\_interface are test\_bsc\_interface\_passed and test\_bsc\_interface\_failed. If the outcome is test\_bsc\_interface\_passed, the next Action to be taken is update\_alarm\_and\_check\_tt. If the outcome is test\_bsc\_interface\_failed, the next Action to be taken is list\_all\_available\_interfaces.
- 6. The above exercise of linking has to be carried out for each Problem.
- 7. Once the XML is modified appropriately, to view if it is as per expectation, it can be uploaded to Neo4J DB, and viewed. If corrections are needed, the same can be deleted and re uploaded.
- 8. Following process can be followed to upload this XML into Neo4J DB
  - a. Ensure that the details are updated in the properties file GraphDBUtilities.properties

Sample GraphDBUtilities.properties is as shown below

enterprisedb.driver=com.edb.Driver
<pre>enterprisedb.url=jdbc:edb://localhost:5444/hpsadb</pre>
enterprisedb.user=hpsa61
enterprisedb.password=hpsa61
neo4j.protocol=http
neo4j.host=localhost
neo4j.port=7474
neo4j.db=db
neo4j.data=data

Figure 49 – Neo4J XML – GraphDBUtilities.properties

b. Run the script /opt/UCA-ATM/utilities/decisionTree.sh

Figure 50 – Neo4J XML – decisionTree.sh – upload XML

- ii. To extract data from the HPSA inventory (Action, Problem, Problem Action association), use the –e option
- iii. To delete an already loaded graph from Neo4J DB, use -d option

9.

The snippet representing the above scenario is as shown below

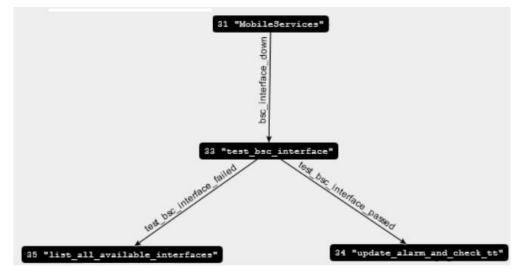


Figure 51 – Neo4J Graph snippet

- "update r moover service laked create to the endstated of the owner of the owner exists after "update\_alarm\_and\_check\_tt" "update\_alarm\_and\_check\_tt" 'create tt' "close\_tt/dissociate\_tt" "MobileServices" lose tt/disso iate tt pdate alarm and check tt service" update\_alarm\_and\_check\_tt" test\_bsc\_interface "update\_tt" al available interfaces tailed list\_all\_available\_interfaces" exists\_after\_list\_all\_available\_interfaces\_failed "update\_alarm\_and\_check\_tt" "create\_tt"
- 10. A sample graph with various problems and actions as represented in Neo4J graph DB is shown below

Figure 52 – Neo4J Graph sample

# Launching Test on UCA Automation from TeMIP Client

This chapter focuses on the steps that need be performed manually in order to integrate TeMIP Client with UCA Automation solution.

### 9.1 Integrate UCA Automation from TeMIP Client

In order to perform the cross launch of UCA Automation application from TeMIP Client, follow the instructions as given below:

- Go to UCA Automation installation directory : /opt/UCA\_Automation
- Go to TeMIP\_Integration directory.
- Copy the file UCA\_Automation\_SetupLaunch.conf to %TEMIP\_CLIENT\_HOME%/TeMIPClient\_SystemLaunch directory on the machine on which TeMIP Client is installed.

Eg – In Windows, it would be

- C:\Program Files (x86)\TeMIP Client V6.4 for Windows\TeMIPClient\_SystemLaunch
- Customize the file for your needs and save the file. See Section 9.2 for details.
- Restart the TeMIP Client to validate options in Launch

Once the instructions are followed, the TeMIP Client will show the following menu option:

STATE OF STREET	aunch Tools Window			I and seen	I mail an	-	- 1 in - 1	e Inc. Ille	and I all and		110mm v R								
🗟 🔶	Add/Edit		人 印 唐 8			8	1991	۵ 🖹 🎾		0 4 4	- DD	<b>₽</b>   Ξ							
× 🖬	DCLibrarian																		
	TAL CommandLine																		
	UCA	•	Automation			Automati	ion_Console												
	Quick Historical Search		UCA Consol		•														
	Print Alarms	•	HPSA Conse	ole	•														
						_													
O M OCN	Jame Domain Nam	e Displa	yed Alar Mc	onitored By	Availabil	ity Sta	Error Conditio	Status Cond	iti X	Date	N	Aessage							
										07/26/201	3 03:1 U	lser configura				n\AppData\Roa			
									ates	07/26/201	3 03:1 S	ystem config	uration file w	as not found in	C:\Program Fi	es (x86)\TeMIP	lient V6.4 for	Windows\Ala	rmsDashboa
									8	07/26/201	3 03:1 U	lser configura	tion file was	not found in:C:	Users\malegac	n\AppData\Roa	ming\Hewlett	-Packard\TeN	IP Client\ma
									8										

Figure 53 – TeMIP Client – UCA Automation cross launch

# 9.2 Customize the UCA Automation UI Integration file

#### 9.2.1 Configure the Automation Console submenu

- Open the file UCA\_Automation\_SetupLaunch.conf in a suitable editor
- Locate the automation console sub-menu [SUBMENU = UCA Automation \nAutomation Console]
- Locate the open-url tag for this submenu [ARGUMENTS = @OpenURL /e http://<hostname>:<port>/UCAAutomation/]
- Customize *hostname* and *port* to point to the configured IP address / hostname and port.

### 9.2.2 Configure the UCA EBC Console submenu

- Open the file UCA\_Automation\_SetupLaunch.conf in a suitable editor
- Locate the uca-ebc console sub-menu [SUBMENU = UCA Automation \nUCA EBC Console]
- Locate the open-url tag for this submenu [ARGUMENTS = @OpenURL /e <u>http://<hostname>:<port>/</u>]
- Customize *hostname* and *port* to point to the configured IP address / hostname and port.

### 9.2.3 Configure the HPSA Console submenu

- Open the file UCA\_Automation\_SetupLaunch.conf in a suitable editor
- Locate the hpsa console sub-menu [SUBMENU = UCA Automation \nHPSA Console]
- Locate the open-url tag for this submenu [ARGUMENTS = @OpenURL /e <u>http://<hostname>:<port>/activator/</u>]
- Customize *hostname* and *port* to point to the configured IP address / hostname and port.