hp Unified Correlation Analyzer

Unified Correlation Analyzer
for
Event Based Correlation

Version 3.2

Release Notes

Edition: 1.0

For the Operating Systems:
Linux (RHEL 5.9 & 6.5)
HP-UX (11.31)
Windows© (for development toolkit)

April 2015

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Preface

These Release Notes describe critical information related to the HP UCA for Event Based Correlation product.

Product Name: Unified Correlation Analyzer for Event Based Correlation

Product Version: 3.2

Kit Version: V3.2

Please read this document before installing or using this Software.

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 for Event Based Correlation Server Version 3.2	• HP-UX 11.31 for Itanium • Red Hat Enterprise Linux Server release RHEL 5.9 & 6.5
UCA for Event Based Correlation Channel Adapter Version 3.2	• HP-UX 11.31 for Itanium • Red Hat Enterprise Linux Server release RHEL 5.9 & 6.5
UCA for Event Based Correlation Topology Extension Version 3.2	• HP-UX 11.31 for Itanium • Red Hat Enterprise Linux Server release RHEL 5.9 & 6.5
UCA for Event Based Correlation Software Development Kit Version 3.2	• Windows XP / Vista • Windows Server 2007 • Windows 7 • Red Hat Enterprise Linux Server release RHEL 5.9 & 6.5

Table 1 - Software versions

Typographical Conventions

`Courier` Font:

- Source code and examples of file contents.
- Commands that you enter on the screen.
- Pathnames
- Keyboard key names

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

HP UCA for Event Based Correlation - Installation Guide

HP UCA for Event Based Correlation - Administration, Configuration, and Troubleshooting Guide

HP UCA for Event Based Correlation - Reference Guide

HP UCA for Event Based Correlation - Topology Extension Guide

HP UCA for Event Based Correlation - Value Pack Development Guide

HP UCA for Event Based Correlation - User Interface Guide

HP UCA for Event Based Correlation – Clustering and HA Guide

Support

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

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.

Chapter 1

New features provided by this release

Previous officially released version of UCA for EBC was UCA for Event Based Correlation V3.1.

The following features and fixes have been implemented since.

1.1 Extended Mappers

1.1.1 The "pattern" mapper

A mapper defined in UCA-EBC can now either be an extract (as per before) or a pattern (new). A pattern mapper is used to build a mapping result from other mappers.

1.1.2 The enhanced "extract" mapper

The extract mapper has been enhanced with 2 optional attributes replaceAll and unchangedValuetIfNoMatch.

1.2 Deprecated APIs

All methods/classes/packages below are deprecated with this version and will be removed in next major update.

Type	API	Deprecated by
Method	TopologyPOI.~~TopologyPOI~~(long topologyReference, String name, String category, String description)	TopologyPOI(long topologyReference, String type, String name, String categories[], String description)
Method	TopologyPOI.~~TopologyPOI~~(long topologyReference, String name, String category, String description, Calendar eventTime)	TopologyPOI(long topologyReference, String type, String name, String categories[], String description, Calendar eventTime)
Method	TopologyPOI.~~TopologyPOI~~(long topologyReference, String name, String category, String description, Calendar eventTime, PoiImportance importance)	TopologyPOI(long topologyReference, String type, String name, String categories[], String description, Calendar eventTime, PoiImportance importance)
Method	TopologyPOI.~~getCategory~~()	TopologyPOI.getCategories()
Method	TopologyPOI.~~getIdentifier~~()	TopologyPOI.getTopologyReference()
Class	Basic~~Problem~~Interface	BasicInterface
Method	AlarmHelper.getFlowName(AlarmCommon alarm)	EventUtils.splitValuePackNameAndFlowName(Event event)

Type	API	Deprecated by
Method	`BasicEvent.doMapping(String mapper)`	`MapperUtils.doMapping(Mapable, String)`
Method	`BasicEvent.addOrchestraDataInScenario(Serializable orchestraData)`	`OrchestraUtils.addOrchestraDataInScenario(Orchestrable, Serializable)`
Method	`Group.getTrigger()`	`Group.getTriggerEvent()`
Method	`Groups.getGroupFromFullProblemKey(String)`	`Groups.getGroupFromFullProKey(String)`

1.3 POI Manager enhancements

The Points of Interest (ToplogyPOI class) are now identified by the pair (topologyReference, type).

The 'topologyReference' is a long value usually set with the POI's related Neo4J node's Identifier, whereas the 'type' is a String identifying the POI's context (node's Type, correlation type, etc...)

The constructors of the TopologyPOI class have been updated accordingly.

For backward compatibility of the valuepacks still using the deprecated constructors, the new 'Type' field is set with the 'Category' field.

1.4 Enhancements in Topology Extension Kit

1.4.1 API and miscellaneous enhancements

Enhancement of In-Memory topology element attributes (InMemoryAttributeManager)

New Generic query to Graph DB has been introduced

New Topology example with enhanced InMemoryAttributeManager

1.4.2 Topology Graph display enhancements

1.4.2.1 Four (4) Overlay icons can now be displayed on each node

The graph display profiles offer the possibility to display Node's statuses as overlay icons on top of the node Icon.

It is now possible to display four (4) icons representing 4 different statuses of the node.

Refer to the "UCA-EBC Topology Extension" guide chapter 8.3 "Defining visualization profiles" for full description of this new feature.

1.4.2.2 Visualization profiles can be inherited

It is now possible to extend a visualization profile on the same principle Java classes do. The 'extends' attribute is used to specify which profile to extend. The new is then set with all the definitions from the extended profile plus the one from this profile definition.

The notion of 'abstract' profiles is introduced. An abstract profile can be extended but is not visible from the GUI.

Refer to the "UCA-EBC Topology Extension" guide chapter 8.3 "Defining visualization profiles" for full description of this new feature.

1.4.2.3 POIs can be grouped by Type in the GUI POI Table

For an easiest reading and processing the Point Of Interest (POI) table can be grouped. By default it is grouped on the 'Type' field.

The Selection of a POI is now done by double clicking on the POI (was previously a simple click).

1.5 The following features have been added in DB REST API

1.5.1 The DB purge utility and the eligibilityScope

The DB purge condition is a new bean available for purging the DB from alarms that are no more eligible. It can be used through Java API, using *AlarmDao.purgeAlarms(List<SqlCondition* conditions)>, or through REST API.

DELETE	**{baseurl}/purge**	**Purges alarms that fill the specified condition**

The eligibilityScope is a new attribute of a DB flow used at VP startup (or resync) to filter out alarms that are no more eligible and that were not yet purged from the DB.

1.5.2 Registering for DB updates through NOM adapter now supports 'Resyncflow'

GET	**{baseurl}/resyncflow**	**Triggers a resynchronization of the NOM mediation flow**

1.6 The sorted groups

The Groups class which provides Event grouping features has now the ability to sort the groups based on their priority.

Note: The Groups object is no more created by default within a scenario class to save up memory resources.

1.7 Event objects are supported in lifecycle and grouping features

There is a new EventQualifier class that allows grouping of Event objects within the Groups class. The Group class now handles two maps: one for Alarm objects and another one for Event objects. As a group can be created by a trigger Event instead of a trigger Alarm, the *getTrigger()* is now deprecated.

1.8 GUI enhancements

The GUI is now offering the possibility to disable TopFilter and/or Pattern without being obliged to remove filter information from XML file

1.9 DB Persistence enhancements

The DB store bean has 2 new properties to

- better fit Oracle DB constraints
- optionally create indexes in DB (performance improvement)

The DB flow bean has 2 new properties to

- specify eligibility of alarms passing though the flow
- specify the source identifier
- optionally discard alarms creation messages coming from same originating value pack

1.10 Upgraded Channel Adapter

UCA EBC CA compatible with NOM V7.1, now using NOM patched ActiveMQ library.

The Channel Adapter has be extended to support actions coming from NOM. This will allow for creation, deletion and resynchronization of a mediation flow (this will be used by UOC integration).

1.11 Bug fixing

Please refer to Chapter 2 “Fixed Problems”.

Chapter 2

Fixed Problems

The following problems were fixed in this release

Reference / Severity	Component	Description	Comment
CR#9362 Medium	Server	Deploying an invalid VP should not succeed	Fixed
CR#11568 Medium	Examples	Wrong DB flow resynchronization configuration in persistence example value pack	Fixed
CR#11588 High	Server	For NMS that reuse same alarm identifier after clearance, need to immediately retract the alarm when not eligible	Fixed
CR#11623 High	Server	Need to synchronize the RuleSession inside Lifecycle	Fixed
CR#11710 Medium	Server	When an alarm is copied and cascaded, the local Variables are preserved, leading to potential serious issues	Fixed
CR#11725 Medium	GUI	UCA-EBC graph display does not handle correctly the URL 'profile' parameter	Fixed
CR#11739 Medium	GUI	GUI Filter Builder tool does not support new instanceOfFilterStatement type of filter statement	Fixed
CR#11818 High	Server	Error in rule file saying function is undefined	Fixed
CR#11898 Medium	GUI	The topology management console has wrong height on Chrome	Fixed
CR#11990 High	Server	Cascading from a scenario to another an extended alarm type (defined only in the first) throws Class Not Found Exception and makes second scenario unactive (FAILED)	Fixed
CR#12014 High	Server	uca-ebc script does not allow to start a 2nd instance if its name (ex: IPAG) is subpart of the name of an instance already running	Fixed
CR#11821 Medium	Server	Need to guarantee the sequence of forwarded alarms	Enhancement implemented
CR#12177 Medium	Server	Windows installer does not allow installation of different versions of UCA packages on 1 PC	Enhancement implemented
CR#12224 Medium	Server	When Each_Access Model is enabled,the rules in the value pack could not be fired correctly.	Fixed
CR#12309 Medium	Server	alarmRaisedTime not reflected in UCA Working Memory when receiving similar alarm	Fixed
CR#12321 Medium	Server	Enable jndi lookup in the UCA-EBC embedded jetty server	Enhancement implemented

Reference / Severity	Component	Description	Comment
CR#12326 Medium	Server	Filter for UCA-EBC 3.0 null/absent numeric field not taken in account in filter statement	Enhancement implemented
CR#12451 Medium	Server	Leading and trailing spaces are trimmed in UCA Neo4j	Enhancement implemented
CR#12458 Medium	Server	uca-ebc facts may be rejected outside the filtering process without notice (rejectedEvent counter is not incremented)	Fixed
CR#12215 Medium	GUI	After copy & paste of a pattern, cannot rename the copied pattern	Fixed
CR#12333 Medium	GUI	The language of fields in the ValuePack webapp panel is not changed when switching the language flag on GUI	Fixed
CR#12557 Medium	Server	method removeGroup() may wrongly remove an entry in the groupAlamToQualifierMap	Fixed
CR#12792 Low	Server	Problem with CLASSPATH environment variable set in uca-ebc-admin.bat, uca-ebc-injector.bat, and uca-ebc-metric-injector.bat files that interferes with ant	Fixed
CR#12822 Medium	Channel Adapter	Simplify and unify Camel route tracing enablement for all channel adapters and provide up-to-date instructions	Enhancement implemented

Table 2 - Fixed Problems in UCA for EBC V3.2

Chapter 3

Known Problems

This section lists problems discovered during the product test campaign and that still have to be fixed.

Reference / Severity	Component	Description	Solution/Suggested workaround
CR#11444 Medium	GUI	When using the Topology graph visualisation tool from The GUI a session is created on the server side. When the browser is disconnected, the session is not fully destroyed leading to memory consumption	There is no real workaround to this problem unless stopping/re-starting the UCA-EBC server. This has a minimal memory impact though.
CR#11955 Medium	GUI	Multiple filter files not fully supported at the GUI	This can be used without UI.
CR#12335 Medium	Server	Null Pointer Exception in Problem Detection Value Pack under heavy stop/start combinations	Under rare Stop/start/stop/start conditions (but not for Production Use Case)
CR#12927 Medium	Topology extension	Tom Sawyer throws TSSessionExpiredException when UCA-EBC starts	This is part of standard Tom Sawyer behavior

CR#12982 Medium	Toolkit	Topology aware scenarios (non Inference Machine) generated with eclipse plugin are missing an enum inside the ExtendedTopoAccess class.	The workaround is to copy the following declaration of enum inside the ExtendedTopoAccess .java :
			public enum PortRelationshipType implements RelationshipType {
			LINK
			}
			and importing import org.neo4j.graphdb.RelationshipType;

CR#12983 Medium	Toolkit	Eclipse plugin: Topology aware scenario with templated rules not working.	If you chose Topology Aware scenario, the templated rules option should be unselected
CR#9929 Low	Toolkit	Skeleton: Error in rules when creating a new VP from the skeleton using the UCA plugin	Deleting and re-importing the project fixes the problem. No Problem if the plugin is not installed

Table 3 - Known Problems