HP Unified Correlation Analyzer

Unified Correlation Analyzer
for EBC
Inference Machine

Version 3.3

Release Notes

Edition: 1.0

For Windows© and Linux RHEL 5.9-5.11, 6.4-6.6, 7.0-7.1 Operating Systems

September 2015

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Preface

The Release Notes document describes critical information related to the HP UCA for EBC Inference Machine product.

Product Name: Unified Correlation Analyzer for EBC Problem Detection

Product version: 3.3

Kit version: 3.3

Note: Read this document before installing or using the related software.

Intended audience

This document is aimed at the following audiences:

- 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.

Table 1 - Software versions

Product version	Supported operating systems
UCA for Event Based Correlation Development Kit Inference Machine Extension, version 3.3	• Windows 7 64 bits • Linux Red Hat Enterprise Linux Server, 64 bits, Release 5.9-5.11, 6.4-6.6, 7.0-7.1
UCA for Event Based Correlation Development Kit Topology State Propagator Extension Version 3.3	• Windows 7 64 bits • Linux Red Hat Enterprise Linux Server, 64 bits, Release 5.9-5.11, 6.4-6.6, 7.0-7.1

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 EBC IM – Installation Guide
- HP UCA for EBC IM – User Guide
- HP UCA for EBC IM – TeMIP Client Guide
- HP UCA for EBC - Installation Guide
- HP UCA for EBC - Administration, Configuration, and Troubleshooting Guide
- HP UCA for EBC - Reference Guide
- HP UCA for EBC - Topology Extension Guide
- HP UCA for EBC - Value Pack Development Guide
- HP UCA for EBC - User Interface Guide

Support

Visit the HP Software Support website at https://softwaresupport.hp.com/ for contact information, and details about HP software products, services, and support.

The Software support area of the website includes the following:

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

Chapter 1

Main changes since last release

The previous released version of this product was UCA for EBC Inference Machine V3.2.

The features and fixes that have been implemented since the delivery of UCA for EBC Inference Machine V3.2 are described in the following subsections.

1.1 Problem Detection

1.1.1 New behavior

There is a new policy to automatically terminate Problem Alarms that have no more Sub Alarms after a resynchronization.

Suppose you have a group with few raw alarms and one ProblemAlarm. While the PDVP is stopped, all the raw alarms are terminated in NMS. Now suppose PDVP restarts and resynchronizes with NMS. Only the ProblemAlarm will be retrieved. Then what to do with a ProblemAlarm which becomes lonesome after such a resynchronization?

Default PD behavior is to clear it.

Now, with 3.3, it is possible to directly terminate it by setting the following:

- *ProblemPolicy.ProblemAlarm*.**terminateWhenLonesome** attribute to true

1.1.2 New service

The class `com.hp.uca.expert.vp.pd.services.`**`PD_Service_Topology`** has been introduced to help end-user retrieve easily the DB records when the PDVP is using topology.

It provides method *getDbRecords*() to achieve this either through internal cache system or through topology access.

1.1.3 Enhanced computeProblemEntity from mappers

The method *`computeFromPolicy`*`()` of class `com.hp.uca.expert.vp.pd.services.PD_Service_ProblemEntities` has been enhanced so that a single mapper can now be used to return multiple problem entities. To have this feature enabled, you just need to declare the attribute **separator** in the definition of the mapper.

Suppose you have a custom field "servers" that may contain several servers separated with commas. If you need each of the server be a separate problem entity, then declare the mapper as per example below.

```
<mapper name="getServers" separator=",">
        <extract>
                <fieldName>servers</fieldName>
                <matcher>(.*)</matcher>
```

```
                <mappedTo>$1</mappedTo>
        </extract>
</mapper>
```

1.2 Topology State Propagator

The method *computePercentageAvailability()* of class `com.hp.uca.expert.vp.tp.services.TP_Service_StateCalculation` has been enhanced so that now it is computed according two criteria:

1. the highest severity of the RCA part of the propagation group (if any), given that:

- CRITICAL -> State DOWN equivalent percentage value
- MAJOR -> State HIGH equivalent percentage value
- MINOR -> State MED equivalent percentage value
- WARNING -> State LOW equivalent percentage value

2. the result of the computing of impacting states according the propagation rule, given that:

- CUSTOM -> the custom propagation computePercentageAvailability() is called
- FULL_PERCENTAGE -> each percentage availability is computed per impacted node, and the average of those percentages is used
- WORST_CHILD_PERCENTAGE -> each percentage availability is computed per impacted node, and the lesser is used

The lesser percentage of the two above computed criteria is considered as return value.

1.3 New APIs

Interface / Class	API
com.hp.uca.expert.vp.common.services.IM_Service_Cache	getMasterAlarmWatchdogItem(GroupBase group) setMasterAlarmWatchdogItem(GroupBase group, Integer watchdogItemId) getTroubleTicketWatchdogItem(GroupBase group) setTroubleTicketWatchdogItem(GroupBase group, Integer watchdogItemId)
com.hp.uca.expert.vp.common.services.IM_Service_TroubleTicket	cancelTroubleTicketPendingCreation(Scenario scenario, GroupBase group) rescheduleTroubleTicketCreation(Scenario scenario, GroupBase group, Long delay)
com.hp.uca.expert.vp.pd.services.PD_Service_ProblemAlarm	cancelPendingProblemAlarmCreation(Scenario scenario, Group group) rescheduleProblemAlarmCreation(Scenario scenario, Group group, Long delay)
com.hp.uca.expert.vp.tp.core.PropagationDefault	createState(String stateId)

1.4 Changed APIs (backward incompatible)

Interface / Class	API	Replaced by
com.hp.uca.expert.vp.common.interfaces.SupportedTroubleTicketActions com.hp.uca.expert.vp.common.actions.TroubleTicketActionsFactory	closeTroubleTicket(Action action, Scenario scenario, CommonActionInterface problemOrPropagation, String troubleTicketIdentifer)	closeTroubleTicket(Action action, Scenario scenario, GroupBase group, CommonActionInterface problemOrPropagation, String troubleTicketIdentifer)

1.5 Deprecated APIs

Interface / Class	Deprecated API	New API
com.hp.uca.expert.vp.pd.interfaces.ProblemInterface com.hp.uca.expert.vp.pd.core.ProblemDefault	computeDelayForTroubleTicketCreation(Event event)	computeDelayForTroubleTicketCreation(Event event, Group group)
com.hp.uca.expert.vp.tp.interfaces.PropagationInterface com.hp.uca.expert.vp.tp.core.PropagationDefault	computeDelayForTroubleTicketCreation()	computeDelayForTroubleTicketCreation(PropagationGroup group)

1.6 Bug fixing

Cf. Chapter 2

Chapter 2

Fixed problems

The following problems were fixed in this release.

Table 2 - Fixed Problems in UCA for EBC Inference Machine V3.3

Reference / Severity	Component	Description	Comment
CR#13090 Medium	Inference Machine	IM-example should not use port 9092 as default for its DB connection	Fixed
CR#13131 Medium	Inference Machine	im-example junits do not run in eclipse	Fixed
CR#13166 Medium	Problem Detection	New V32 IM alarm/event life-cycle: PbD's 'onAlarmCreationProcess' not called when inheriting from MixEventsAndStateLifeCycleExtended	Fixed
CR#13167 Medium	Problem Detection	PD Resync issue : PA should be terminated when no more subA after resync	Fixed
CR#13168 High	Problem Detection	TroubleTicketActionsFactory.closeTroubleTicket() is missing parameter group	Fixed
CR#13182 Medium	Problem Detection	computeDelayForTroubleTicketCreation(Event event) should also have Group as parameter	Enhancement Implemented
CR#13183 Medium	Problem Detection	Provide more PD_Services for TT delay update	Enhancement Implemented
CR#13185 Medium	Problem Detection	CreateTroubleTicket() alarmsToAssociate empty when sourceIdentifier is different	Enhancement Implemented
CR#13203 High	Problem Detection	Need a way to get multiple problemEntities from Mappers	Enhancement Implemented
CR#13225 Medium	Problem Detection	PD resync issue : PA should be cleared when all subAlarms are cleared after resync	Fixed
CR#13236 Medium	Inference Machine	Exception during groupUpdatedFindNewAlarms() when checking criteria for TroubleTicket creation for group	Fixed
CR#13244 Medium	Documentation	Document that ONLY 64 bit windows systems are supported	Enhancement Implemented
CR#13325 Medium	Problem Detection	NullPointerException in TroubleTicketActionsFactory.createAndSetCallback()	Fixed

CR#13343 High	Topology State Propagator	TSP does not propagate state change when severity of state is increased	Fixed
CR#13348 High	Topology State Propagator	TSP does not update whole subtree of RCA for upper level of propagations	Fixed

Chapter 3

Known problems

This section lists problems discovered during the product test campaign. These problems have not been fixed yet.

Table 3 - Known Problems

Reference / Severity	Component	Description	Solution/suggested workaround or comment
CR#11239 Medium	Problem Detection VP	*UCA PbD: groupalarm* does not work if *<ToLower>* is not activated in TeMIP CA	Possible User Error: Needs more investigation. Will be addressed in a next release.
CR#10072 Medium	Problem Detection VP	Side effect of flag *problemAlarmCanTriggerAnotherGroupForSameProblem* on the parent field of the cleared alarm	Workaround is available. The problem will be corrected in a future release.
CR#11917 Medium	Problem Detection VP	*getTrigger()* should not return ProblemAlarm (PA) if there is no more trigger	On hold. Needs more investigation. Workaround exists
CR#12958 Medium	Problem Detection VP	Resynchronization in IM is not complete	Will be addressed in a future release
CR#11061 Low	Problem Detection VP	when performing an action, the same *uca* user name should be used without any reference to the action id	Will be addressed in a future release.

Chapter 4

Known limitations

No limitations have been reported on the product yet.

Chapter 5
Existing Value Packs migration steps

5.1 Eclipse users: rebuild your eclipse project

- from a command line session, change to your project directory ("my_VP_project"), run 'ant eclipse'
- from eclipse, refresh and clean your project.

5.2 Update your project lib directory

Go to your project directory ("my_VP_project"), then go to the “lib” directory

Update the content of this directory with the appropriate libraries taken from ${UCA-EBC-DEV}/eclipseplugin/templates/im-skeleton/lib directory

5.3 Change the backward incompatible APIs

If your VP uses some of the APIs listed in chapter 1.4, you have to do the necessary changes.