hp Unified Correlation Analyzer

Unified Correlation Analyzer
for EBC
Problem Detection

Version 3.1

Release Notes

Edition: 1.0

For Windows© and Linux (RHEL 5.8 & 6.3) Operating Systems

April 2014

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Contents

Tables

Preface

These Release Notes describe critical information related to the HP UCA for EBC Problem Detection product.

Product Name: Unified Correlation Analyzer for EBC Problem Detection

Product Version: 3.1

Kit Version: V3.1

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 Development Kit Problem Detection Extension Version 3.1	- Windows XP / Vista - Windows Server 2007 - Windows 7 - Linux Red Hat Enterprise Linux Server release 5.8 and 6.3

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 EBC PBD – Installation, Administration and Development Guide
- HP UCA for EBC PBD – 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

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

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

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

Chapter 1

Main changes since last delivery

Previous released version of this product was UCA for EBC Problem Detection V3.0.

Since this delivery, some noticeable new features have been implemented and the product has integrated some bug fixes.

1.1 Alarm Resynchronization enhancement

During Resynchronization, Alarm providers such as TeMIP return the alarms in the reverse order of creation (last created alarm returned first).

In some circumstances, at the Problem Detection Level this was leading to handling the Problem Alarm before the actual trigger that was used for creating the Problem Group.

The Problem Detection Resynchronization Phase has been reworked to take into account a new Mediation Flow setting that indicates if the alarms are returned in the reverse order during resynchronization of the flow.

```
<mediationFlows>
    <mediationFlow
        name="temipFlow"
        actionReference="TeMIP_FlowManagement"
        flowNameKey="flowName"
        lastEventReceivedFirstDuringResynchronization="true">
        ...
    </mediationFlow>
<mediationFlows>
```

Note

The *lastEventReceivedFirstDuringResynchronization* attribute is a mandatory attribute. For mediations Flows defined for the TEMIP application, it must be set to "true".

1.2 Support of nested Problems

It is now possible to support the concept of nested problem. One alarm may have multiple roles for the same problem. It can be a ProblemAlarm for one group, but also trigger or be attached to another group of the same problem. This behavior is enabled by defining a new configuration item in the ProblemXmlConfig configuration file:

<problemAlarmCanTriggerAnotherGroupForSameProblem>

ProblemXmlConfig.xml example:

```
<problemPolicy name="ProblemDefault">

  <problemAlarm>

    <delayForProblemAlarmCreation>2000</delayForProblemAlarmCreation>

    <delayForProblemAlarmClearance>0</delayForProblemAlarmClearance>

    <problemAlarmCanTriggerAnotherGroupForSameProblem>true</problemAlarmCanT
riggerAnotherGroupForSameProblem>

  </problemAlarm>
```

1.3 Performance optimization

Performance has been enhanced by optimizing the computationProblemEntity() method which now caches the result into the alarm.

This optimization is transparent for the user (no changes required to the existing value packs).

1.4 A set of new configuration parameters

- New optional property *<problemAlarmAbleToCreateGroup>*.
  If this property is set to 'false', problem alarms corresponding to triggers that are not present anymore in the working memory, or present as mere sub-alarms, will be discarded. If set to 'true', the default behavior is unchanged.

- With TeMIP, when creating a Problem alarm A with a Trigger alarm which is child of another problem B, the Problem A gets B as parent.

  A workaround has been implemented in the default TeMIP actions' factory to ignore the copy of the reference alarm fields. This feature is not activated by default and must be set in ProblemXmlConfig.xml under: mainPolicy/actions as:

  ```
  <boolean key="copyReferenceAlarmWhenNotPbAlarm">
      <value>false</value>
  </boolean>
  <boolean key=" copyReferenceAlarmWhenNotPbAlarm ">
      <value>false</value>
  </boolean>
  ```

  Note that, both boolean keys "copyReferenceAlarmOnPbAlarmCreation" and "copyReferenceAlarmWhenNotPbAlarm" should be set to false.

1.5 Possibility to reuse an existing Group

There are circumstances where a group must be re-used. As a group is identified by its trigger alarm, the Group.setTrigger() method has been made public.

1.6 Documentation enhancement

The Java documentation as well as the User documentation have been reworked.

The Alarm Workflow within Problem Detection has been detailed.

The concept of "Problem Entity" and "Actions Factory" clearly explained.

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Chapter 2

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Migration steps from V3.0 to V3.1

For an existing Problem Detection VP customization, some manual actions need to be applied to take advantage of this new version.

2.1 Update the Framework Jar file in your development projects

- copy the uca-evp-pd-fwk-3.1.jar into your project lib directory :
- "my_VP_project/lib"
- remove the uca-evp-pd-fwk-3.0.jar from the same directory "my_VP_project/lib"
- from a command line session change to your project directory ("my_VP_project"), run 'ant eclipse'
- from eclipse, refresh and clean your project.

2.2 Update the rule package in your development Projects

Copy the file ProblemDetection_Rules.pkg located at:

${UCA_EBC_DEV_HOME}/pd-example/src/main/resources/valuepack/pd

to your project's scenario resource directory:

<your project>/src/main/resources/valuepack/<your scenario>/

2.3 Remove useless files in your development project

- The file `src/test/resources/com/hp/uca/expert/vp/pd/core/ProblemDefault.java` is not needed anymore and may lead to errors in eclipse project. It must be deleted from your project
- The file `src/main/resources/valuepack/conf/ProblemXmlConfig.xsd` is not needed anymore and may lead to errors at valuepack run time. It must be deleted from your project.

2.4   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.

Chapter 3

Fixed Problems

This section lists some of the customer's visible problems that have been
fixed since the last release (UCA EBC Problem Detection V3.0):

Reference / Severity	Component	Description	Comment
CR#10165 Medium	Problem Detection VP	Documentation for property sameGroupForAllProblemEntities is missing	Fixed
CR#10184 Medium	Problem Detection VP	The compareProblemEntities() method is not called in some corner cases.	Fixed
CR#10204	Problem Detection VP	The default Problem Detection VP regenerates a new problem alarm after a VP restart even if there exists one.	Fixed
CR#10531 Medium	Problem Detection VP	It's possible to have zombie groups which are not retracted from WM, leading to a leak of groups.	Fixed
CR#10552 High	Problem Detection VP	Number of Acknowledged Alarms are not correctly updated when acknowledging a ProblemAlarm previously promoted from Trigger Alarm	Fixed
CR# 10839 High	Problem Detection VP	2 different groups may have the same ProblemAlarm	Fixed
CR#11030 High	Problem Detection VP	2 different groups have the same ProblemAlarm	Fixed
CR#11042 Medium	Problem Detection VP	temipActionsFactory should find a way to tell temip to not associate children/parents fields of the referenceAlrm for a new pbAlarm	Fixed
CR#11099 High	Problem Detection VP	Need an optional property to decide whether a pb alarm should be able to create a group	Fixed New property name : <problemAlarmAbleToCreateGroup>
CR#11235 High	Problem Detection VP	Need a ProblemDetection service to modify the trigger alarm of a group without recreating the group	Fixed
CR#11101 Medium	Problem Detection VP	Wrong navigation can happen when problem alarm is trigger of another Problem Alarm	Fixed
CR#11287 High	Problem Detection VP	Multiple Groups are not systematically created	Fixed

Table 2 - Fixed Problems in UCA EBC Problem Detection V3.1

Chapter 4

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#9921 Medium	Problem Detection VP documentation	Candidate visibility policy should be unified or at minimum documented better	Will be addressed in a future delivery
CR#10072 Medium	Problem Detection VP	When a TeMIP alarm is cleared with automatic termination, all the mandatory overridables are called	Will be addressed in a future delivery
CR#11061 Medium	Problem Detection VP	When doing action, the same User name 'uca' should be used without any reference to the action id	Will be addressed in a future delivery

Table 3 - Known Problems

Known Limitations

No known limitation reported on the product yet.