HCLTech eIUM Release Notes

HCLTech eIUM 10.6.3, October 27, 2021

Table of Contents

Notices

Legal notice

Trademarks

Preface

This chapter provides information on the intended audience of the document, document history, related documents, typological conventions, and the definitions and abbreviations used.

About this guide

This document details the HCLTech eIUM artifacts for cloud native deployment.

Audience

This document is aimed at operators who need to get information on the instructions for containerized HCLTech eIUM deployments.

Document history

The following table lists the publication history of this document.

Edition	Version	Publication date
First Edition	10.6.3	October 2021

Related documents

See the following documents (including this document) for further information.

Document title	Description
HPE eIUM Release Notes	Provides release-specific topics, for example, new features, software and hardware requirements, and known problems and workarounds.
HPE eIUM Containerization Guide	Describes the containerized standalone HCLTech eIUM deployment.
HPE eIUM Containerization Security Design Specification for Standalone Servers	Describes the security architecture of a containerized HPE eIUM deployment, and gives guidance on how to secure the service API interfaces.
HPE eIUM Operators' Guide for Containerized Deployments	Describes how to run a containerized HCLTech eIUM deployment.

Conventions

Unless otherwise stated, this document uses the following typological conventions.

`Courier Text`	It is used for filenames and their contents, computer inputs or outputs, program codes, and so on.
Italicized text	It is used for labels, parameters, emphasized text, and replaceable text.
bold text	It is used to indicate navigation options in the interfaces; for example, the text appearing in buttons and menu items.
<angle brackets>	It is used to indicate generic variable names that must be substituted by real values or strings.

Style conventions

Unless otherwise stated, this document uses the following style conventions for procedures:

- Before you begin—Describes prerequisites of the procedure.
- About this task—Provides background information on the procedure.
- Procedure—Lists procedure steps in sequence.
- A paragraph after a procedure step in the Procedure section states one of the following information:
  - Additional information on the procedure step.
  - Examples on how to operate the procedure step.
  - Results after the procedure step is performed.
- Results—Result to achieve after the steps in the Procedure section are completed.
- What to do next—What to do after the procedure is completed.
- Example—Provides an example, or use case reference on the procedure.

Abbreviations

The following table lists the abbreviations used in the HCLTech eIUM documentation.

Table 1. Abbreviations

CLI	command line interface
CNF	Containerized Network Function
CNCF	Cloud Native Computing Foundation
eIUM	enhanced Interactive Unified Mediation
EFK	Elasticsearch, Fluentd, and Kibana
HTTP	HyperText Transfer Protocol
JDK	Java Development Kit

RDBMS	Relational Database Management System
TLS	Transport Layer Security

Chapter 1. Introduction

This cumulative patch includes several important fixes to eIUM, which were introduced into the product since the last cumulative patch or release. These fixes repair critical defects and they are essential to the proper operation of eIUM. Fixes to defects that are not urgent or critical are planned for a subsequent release.

This is a combined eIUM patch, and contains updates to the following product components:

- Cloud Interconnect Server
- Extended Tools
- IUM
- License Server
- Security Server

It could be installed on any type of eIUM host (Standard, Client, Bare) with any combination of installed product extensions (MySQL, Real-Time Engine, ExtendedTools, or others). Only the aspects applicable to the specific host will be installed from this patch.

This document provides instructions for installing the cumulative patch. It also includes a brief summary of each defect fixed in this patch. The defects are sorted in descending order by patch (most recent first) and by defect ID within each patch. Older defect IDs start with "QXCR" while newer IDs start with "CMSEIUM". Some defects have both IDs.

> **NOTE**: A new license key is required for every major and minor release to install and upgrade eIUM. All Feature Pack releases are compatible with major/minor releases and do not require having a new license key.

You can uninstall or remove an eIUM patch that has been successfully installed. See the Uninstallation Procedure below for instructions. You can not use this method to remove a patch that failed to install correctly.

As an HPE customer, you can obtain the most current software releases and documentation by contacting your HPE Sales representative or HPE Delivery contact. Or, you can open a support case by e-mail to request assistance: iumsupport@hpe.com.

Chapter 2. Container Docker images

Unresolved directive in <stdin> - include::d:\GitHub_documentation\cms-techdocs-deg\eIUM_ReleaseNotes\container_docker_image.adoc[]

Chapter 3. Backward compatibility

- [CMSEIUM-21409] — Management Server does not gather TPS audit and throughput statistics when TPSAudit is off in the license. Prior this version Management Severer was gathering these statistics regardless of license type.

Chapter 4. Installation Procedure

Note - You must install this patch on the host running the Configuration Server first and on other hosts afterwards. This order of installation is essential.*

1. Log in as the Administrator or the root user. If you installed eIUM on UNIX using a non-root user, then log in as that non-root user.

2. Back up your configuration. You can use the `saveconfig` command to save the configuration into a file as follows:

   ```
   saveconfig -f backup20211027-1641.config
   ```

   See the eIUM Command Reference for more information on the `saveconfig` command.

3. Copy the patch installation file to a temporary location such as `/tmp/eIUM10.6.3.20211027-1641.patch` or `C:\temp\eIUM10.6.3.20211027-1641.patch`.

   Note - Ensure that you execute the patch installation in a directory whose name *does not* have any non-Latin characters (for example, such as those from Russian, Chinese, or Japanese). Patch installation could otherwise fail in such a case.

4. Optionally, verify the signature of the patch installation file by executing the following `jarsigner` (JAR Signing and Verification) command. Though not required for installation of this patch, you can execute this command to verify that the patch file is genuinely from HPE, and to ensure it has not been modified since it was signed by HPE:

   ```
   jarsigner -verify -verbose -certs eIUM10.6.3.20211027-1641.patch
   ```

5. Ensure that the host admin agent is running. The patch will not install properly without it. See the eIUM Administrator's Guide for more information on the host admin agent.

6. Close all running application sessions (such as LaunchPad, eIUM Studio, or the ConfigEditor) before starting the upgrade.

7. Execute one of the patch installation commands below.

   Note - You must use the java command, not the SIUJava command. The last parameter in the command is the directory of the eIUM instance to be patched.

   ◦ If security is not installed:

   ```
   java -jar eIUM10.6.3.20211027-1641.patch /opt/SIU
   ```

   or

```
java -jar eIUM10.6.3.20211027-1641.patch C:\SIU
```

◦ If security is installed:

```
java -jar eIUM10.6.3.20211027-1641.patch -login <user> -pw <password> /opt/SIU
```

or

```
java -jar eIUM10.6.3.20211027-1641.patch -login <user> -pw <password> C:\SIU
```

Note - In order to execute the above java commands, the first "java" in the PATH must be at least JDK 11.0 or later, OR you should specify the full path to the correct java executable. For example:

```
/opt/jdk11.0.2/bin/java -jar eIUM10.6.3.20211027-1641.patch /opt/SIU
```

You should see output lines like the following:

```
Configuring patch eIUM10.6.3.20211027-1641
Processing command line args
...
Collecting system information
...
Verifying patch environment
...
All verifications passed, starting patch install
...
Installing patched files
...
Preparing configuration for patch uninstallation
...
Cleaning up after installation
...
-------------------------------------------------------------------------------
Patch installation completed successfully
-------------------------------------------------------------------------------
You must restart any eIUM processes for the changes to take effect
-------------------------------------------------------------------------------
```

8. Restart the host admin agent. See the eIUM Administrator's Guide for instructions.

   Note - If an error message indicates that the installation failed, examine the log file `eIUM10.6.3_install.log` in the current directory for details. This log file also contains a list of the files installed.

9. Verify that the patch was installed correctly by checking eIUM log files, such as the host log file, the configuration server log file, or any collector log file.

	Host Log File	Configuration Server Log File
Windows	`C:\SIU\var\log\hostname.log`	`C:\SIU\var\log\ConfigServer.log`
UNIX	`/var/opt/SIU/log/hostname.log`	`/var/opt/SIU/log/ConfigServer.log`

Look for a "eIUM10.6.3.20211027-1641" string in these log files. For patched eIUM jar files, you should see output similar to the following line:

```
... main (02.007.03) INFORMATIVE: * Build ID: patch eIUM10.6.3.20211027-1641
```

For patched eIUM plug-ins you should see output similar to the following line:

```
... main (39.009.03) INFORMATIVE: Detected Plugin: ... version ... patch
eIUM10.6.3.20211027-1641
```

Chapter 5. Uninstallation Procedure

Note - You must restore your eIUM environment to the state it was in before you installed this patch. If your collectors use features in the patch and you remove the patch, those collectors will not run properly. Contact eIUM support for assistance with restoring your eIUM environment or removing this patch.*

1. Log in as the Administrator or the root user. If you installed eIUM on UNIX using a non-root user, then log in as that non-root user.

2. Ensure that the host admin agent is running. The patch will not uninstall properly without it. See the eIUM Administrator's Guide for more information on the host admin agent.

3. Close all running application sessions (such as LaunchPad, eIUM Studio, or the ConfigEditor) before executing the uninstall.

4. Back up your configuration. You can use the `saveconfig` command to save the configuration into a file as follows:

   ```
   saveconfig -f backup20211027-1641.config
   ```

   See the eIUM Command Reference for more information on the `saveconfig` command.

5. Change your working directory to the patch backup directory for the current patch. This directory is located under VARROOT (for example, `/var/opt/SIU` or `C:\SIU\var`) at `VARROOT/patch_backup/eIUM10.6.3.20211027-1641` or `VARROOT\patch_backup\eIUM10.6.3.20211027-1641`.

6. Execute one of the commands below to start the patch uninstall process.

   Note - Patch uninstall uses the java command, not SIUJava. * If security is not installed:

   +

   ```
   java -jar UninstallPatch.jar
   ```

   ◦ If security is installed:

   ```
   java -jar UninstallPatch.jar -login <user> -pw <password>
   ```

   Note - In order to execute the above java commands, the first "java" in the PATH must be at least JDK 11.0 or later, OR you should specify the full path to the correct java executable. For example:

```
/opt/jdk11.0.2/bin/java -jar UninstallPatch.jar
```

You should see output like the following:

```
Configuring patch eIUM10.6.3.20211027-1641 for uninstall
Processing command line args
...
Collecting system information
...
Configuring patch modules
...
Verifying patch environment
...
All verifications passed, starting patch uninstall
...
Restoring patched files
...
Cleaning up patch uninstall
...
----------------------------------------------------------------------
Patch uninstallation completed successfully
----------------------------------------------------------------------
You must restart any eIUM processes for the changes to take effect
----------------------------------------------------------------------
You should check .../eIUM10.6.3.20211027-1641/eIUM10.6.3_uninstall.log for
errors,
   then remove the patch backup directory '.../patch_backup/eIUM10.6.3.20211027-
1641'
----------------------------------------------------------------------
```

7. Restart the host admin agent to apply the changes. See the eIUM Administrator's Guide for instructions.

   If an error message indicates that the uninstall failed, examine the log file `eIUM10.6.3_uninstall.log` in the current directory for details. This log file also contains a list of the files restored by the uninstall.

8. Verify that the patch was uninstalled correctly by checking eIUM log files, such as the host log file, the configuration server log file, or any collector log file.

	Host Log File	Configuration Server Log File
Windows	`C:\SIU\var\log\hostname.log`	`C:\SIU\var\log\ConfigServer.log`
UNIX	`/var/opt/SIU/log/hostname.log`	`/var/opt/SIU/log/ConfigServer.log`

You should no longer see references to "eIUM10.6.3.20211027-1641" in those log files after Admin Agent restart.

If there was a previous eIUM patch installed, you should see output similar to the following lines with the `<PriorPatch>` and `<PriorPatchVersion>` indicating the prior patch, not `eIUM10.6.3`:

```
... main (02.007.03) INFORMATIVE: * Build ID: patch
<PriorPatch>.<PriorPatchVersion>
```

or

```
... main (39.009.03) INFORMATIVE: Detected Plugin: ... version ... patch
<PriorPatch>.<PriorPatchVersion>
```

If there was no previously installed eIUM patch, you should not see lines like the above at all.

Chapter 6. Cumulative Patch ID: 20211027-1641

6.1. Enhancements

ID: QXCR1001535775

Symptoms:

The RetryLimit and RetryTimeout attributes were not exposed in JobReceiverFileRollPolicy.

Resolution:

RetryLimit and RetryTimeout attributes are now exposed. See the HPE eIUM Component Reference for more information.

Impacted components: JobReceiverFileRollPolicy

ID: CMSEIUM-21409

Description:

If TPSAudit is off in the license, ManagementServer does not gather and store TPS audit data by TPS_JOB and Throughput licensing by LM_JOB. If you do not need to collect TPS audit data in database, request the license with TPSAudit=false.

Impacted components: ManagementServer

ID: CMSEIUM-21396

Description:

The CouchbaseV3Cluster now supports disabling TLS hostname verification.

The Couchbase 3.x SDK is now upgraded to 3.2.0.

Impacted components: CouchbaseV3Cluster

ID: CMSEIUM-21015

Description:

New delivery components, DeliveryVoltdb and VoltdbExternalSchema, have been introduced to store datasets received from the DeliveryAgent in a VoltDB database.

Impacted components: VoltdbExternalSchema, DeliveryVoltdb

ID: CMSEIUM-21007

Description:

User might provide externally-managed-network related input via the extManagedVirtualLinks attribute of the VNF instantiation request according to ETSI NFV-SOL 003 V2.7.1.

Impacted components: CIS

ID: CMSEIUM-21006

Description:

If required, CIS VNF LCM flow can merge new networking data and proprietary networking data from additional parameters to include OpenStack environment specific details in the request to VIM.

Impacted components: CIS

ID: CMSEIUM-21005

Description:

Users can provide network-related input via the extVirtualLinks attribute of the VNF instantiation request according to ETSI NFV-SOL 003 V2.7.1.

Impacted components: CIS

ID: CMSEIUM-21004

Description:

CIS VNFD model has been extended to accommodate ETSI defined networking elements.

Impacted components: CIS

ID: CMSEIUM-20974

Description:

A new configuration attribute ResponseOptionalParameters has been introduced in DataSmOperation to fetch the data_sm_resp parameters back to NME.

Impacted components: DataSmOperation

ID: CMSEIUM-20793

Description:

New delivery components, DeliveryVoltdb and VoltdbStoredProcExternalSchema, have been introduced to store datasets received from the DeliveryAgent in a VoltDB database. The VoltdbStoredProcExternalSchema delegates the NMEs to a custom VoltDB stored procedure that inserts or updates records based on the custom aggregation steps.

Impacted components: VoltdbStoredProcExternalSchema, DeliveryVoltdb

6.2. Defects

ID: QXCR1001707319

Symptoms:

A session server with the Load Balancer failed to connect to a backend server, if the backend server was identified through the host name instead of the IP address.

Resolution:

The Load Balancer has been fixed to work with host names, as well as IP addresses.

Impacted components: Load Balancer

ID: QXCR1001540231

Symptoms:

The DeliveryAgent and timeout threads were not exiting properly if there was an error while delivery and FailureAction was configured as STOP_COLLECTOR or STOP_DELIVERY.

Resolution:

The DeliveryAgent and timeout threads are now exiting properly for this scenario.

Impacted components: DeliveryAgent

ID: CMSEIUM-21506

Description:

Configure scripts execution has been restored during the ChangeVNFflavor operation.

Impacted components: CIS

ID: CMSEIUM-21484

Description:

The repository manager documentation has been updated, now it correctly shows that subsequent checkout is not required before checkin.

Impacted components: Documentation

ID: CMSEIUM-21399

Description:

The security server has been fixed to update the truststore information for the authorization server in the LDAP server correctly.

Impacted components: Security server

ID: CMSEIUM-21380

Description:

SMPPClientEndPoint has been fixed to execute DynamicEndPointSelector's AsyncRuleChainInvoker when ReconnectInterval is 0.

Impacted components: SMPPClientEndPoint

ID: CMSEIUM-21340

Description:

The Security server now can be successfully activated using Kerberos authentication.

Impacted components: Security server

ID: CMSEIUM-21279

Description:

Couchbase client library has been upgraded to version 2.7.21.

Impacted Components: CouchbaseLoader, RefDataServiceManager

ID: CMSEIUM-21277

Description:

The configuration exception now contains the hostname and port number.

Impacted components: NMETrapRule

ID: CMSEIUM-21262

Description:

The processmanager CLI is able to delete a server if it was configured with STARTUPMODE=Automatic. When a process with STARTUPMODE=Automatic is restarted by the admin agent, it can be removed using the processmanager delete command.

Impacted components: CLI

ID: CMSEIUM-21245

Description:

A timeout has been implemented for establishing connections from the Admin Agent to Management Server. The default timeout is 10 seconds; it can be changed by configuring the following system property:

-Dcom.hp.usage.rpc.connect.timeout=<number of seconds>

Impacted components: AdminAgent, ManagementServer

ID: CMSEIUM-21242

Description:

DynamicThrottlingRule using LeakyBucketThrottlingMethod and very high throttling limits rejected NMEs due to arithmetic overflow. This has been fixed now.

Impacted components: DynamicThrottlingRule

ID: CMSEIUM-21153

Description:

Small changes have been introduced to avoid the Operations Console stalling on Chrome.

New DEBUG log messages have been added to the Operations Console web application. To enable Operations Console DEBUG logging in var\webappserver\logs\web-console.log, change the .level=INFO to .level=DEBUG in the VARROT\webappserver\webapps\web-console\WEB-INF\logging.properties file and restart webapp server.

Impacted components: eIUM Operations Console

ID: CMSEIUM-21142

Description:

SOAPContextProvider was failing to parse XML with xsi:nil for xs:int fields. It was failing with DecodeException/NumberFormatException. This has been fixed to parse the empty value and that particular SNME attribute will not be set in the SNME.

Impacted components: SOAPContextProvider, XMLContextProvider, XMLResponseHandler, SOAPResponseHandler, XMLSNMEEncapsulator, and XMLDecoderFactory

ID: CMSEIUM-21104

Description:

The security server is able to switch to LDAP server if the primary server is down while processing LDAP operation requests.

Impacted components: Security Server

ID: CMSEIUM-21072

Description:

In the Import function menu, the Import metadata checkbox is now not selected by default.

Impacted components: Reference Data Manager

ID: CMSEIUM-21055

Description:

In the eIUM Operations Console, the threshold could not be updated in DeploymentWide mode. This has been fixed now.

Impacted components: eIUM Operations Console

ID: CMSEIUM-21054

Description:

SplitURLRule is now able to handle LDAP URLs.

Impacted components: SplitURLRule

ID: CMSEIUM-21045

Description:

Permanent Redirect status response code feature has been added to HttpProtocol component.

Impacted component: HttpProtocol

ID: CMSEIUM-21018

Description:

SMSCConnector's ErrorCodeAttribute has been fixed to allow the DataRuleChain to set a custom command_status for the outgoing data_sm_resp.

Impacted components: SMSCConnector

ID: CMSEIUM-20963

Description:

The general IUM logging has been fixed to not synchronize for every log message.

Impacted components: LogNMERule, IUM logging

ID: CMSEIUM-20961

Description:

The NullPointerException has been fixed in the topology service.

Impacted components: ConfigServer

ID: CMSEIUM-20959

Description:

Couchbase client library has been upgraded to version 2.7.20.

Impacted components: CouchbaseLoader, RefDataServiceManager

ID: CMSEIUM-20956

Description:

Tomcat has been upgraded to version 9.0.52.

Impacted components: HttpConnector, eIUM Operations Console

ID: CMSEIUM-19647

Description:

The management server sent invalid server state change notifications when the admin agent was starting, causing the Operations Console UI to display wrong state for running processes. This has been fixed now, all processes are shown with correct state in the Operations Console UI.

Impacted components: ManagementServer, eIUM Operations Console

Chapter 7. Cumulative Patch ID: 20210902-1721

7.1. Enhancements

ID: CMSEIUM-20806

Description:

The secserveractivate command has been enhanced to accept multiple LDAP server URLs for lookup and login LDAP servers to activate the security server.

Impacted components : Security Server, Activator

ID: CMSEIUM-20791

Description:

Loadbalancer Router and LoadbalancerRule now support filling the server name, address, and group name in flat NMEs after the load balancer selected the routing address.

ID: CMSEIUM-20751

Description:

The MgmtDatabaseConfig component now provides additional parameters to configure the connection pool used by the central management server. By default, the management server is configured with a maximum of 15 connections, but you can change this configuration in case of high load and lack of connections.

ID: CMSEIUM-20734

Description:

TLS PSK protocol is now supported for HttpProtocol and Http2Protocol.

ID: CMSEIUM-20727

Description:

A new component, AlertNotificationDecoder, has been introduced. It can be configured as the AlertNotificationDecoder subnode of SMPPClientEndPoint.

A new configuration attribute, AlertRuleChain, has been created for SMPPClientEndPoint to process the incoming alerts.

Impacted components: SMPPClientEndPoint

ID: CMSEIUM-20726

Description:

A new configuration subnode, DataSMDecoder, has been introduced under SMSCConnector to decode incoming data_sm requests.

New configuration attributes, DataRuleChain and DataSMResponseAttributes, have been introduced under SMSCConnector to handle the data_sm messages.

Impacted components: SMSCConnector

ID: CMSEIUM-20721

Description:

The RedisCache now supports GZIP compression.

ID: CMSEIUM-20620

Description:

Helm charts have been developed for installing the Prometheus Adapter. This third party registers itself as the custom metrics server with the Kubernetes API server for providing the custom metrics required by the Horizontal Pod Autoscaler.

The third party extracts the metrics from the Prometheus instance scraping the information from the eIUM session servers.

ID: CMSEIUM-18684

Description:

Map type is now supported in transformations.

7.2. Defects

ID: QXCR1001709801

Symptoms:

DeltaCalculationMatchRule drops deltas on restart when KeepActive and PersistActive are set to true.

Resolution:

DeltaCalculationMatchRule has been modified to persist deltas on restart when KeepActive and PersistActive are set to true.

ID: QXCR1001632468

Symptoms:

NMERPCServerResponseRule set the NME type in NMEAdapter to the encode attribute after sending

out the response asynchronously.

Resolution:

NMERPCServerResponseRule now sets the root NME back into the NMEAdapter after sending out the response asynchronously, so that the next rule sees the original NMEAdapter content.

ID: CMSEIUM-20931

Description:

New ResolveAddresses configuration attribute has been introduced in HttpProtocol to set the host name instead of the IP address in the Host HTTP header of the request generated.

ID: CMSEIUM-20929

Description:

The NMERPC internal heartbeat request response incorrectly appeared as part of the statistical data. This has been fixed now.

ID: CMSEIUM-20904

Description:

The templateServiceBridge task has been fixed in CIS running in IPv6 only environment.

The following logic has been implemented:

– If the system property com.hp.usage.rpc.bind.host=<IP address> is set, the specified IP address is published in the registry. Other interface addresses are not published.

– Virtual network interfaces are not filtered out.

– Loopback and offline network interfaces are filtered out.

– Multiple IP addresses (if any) are published in the registry.

– Multiple IP addresses are sorted with the following priority:

a) Link local addresses (169.254.0.0/16) have least priority.

b) Site local addresses (10/8, 192.168/16 etc.) have less priority than public addresses.

c) IPv4 addresses have priority over IPv6.

ID: CMSEIUM-20881

Description:

The extra "items" element has been removed from the simple key values used in the vimConnectionInfo JSON structure.

ID: CMSEIUM-20878

Description:

PlainHttpRequest has been fixed to override the default Content-Type when RequestHeaderMap is configured and RequestContentAttribute is not configured.

ID: CMSEIUM-20866

Description:

The graceful shutdown mechanism of KafkaConnector in consumer mode has now been fixed.

ID: CMSEIUM-20842

Description:

A new system property has been introduced to prevent the NoMatchException filling the logfile with stack trace. The property can be enabled under the process "Properties" configuration node, using the following configuration:

JVMPROPERTIES=com.hp.siu.collector.aggregator.NoMatchException;

Use these settings only when you have performed your functionality testing, and when you see these exceptions in the profiler are slowing down the process performance. Remove these settings when you are debugging an issue.

ID: CMSEIUM-20786

Description:

A new configuration attribute has been introduced in JsonFormatValidationCheck to validate duplicate keys under the same object.

ID: CMSEIUM-20785

Description:

The Attributes configuration attribute under NMEServiceLoader has now become optional.

ID: CMSEIUM-20776

Description:

GRPCClientConnector has been fixed to preserve the request NME attributes in the GRPC NME response.

ID: CMSEIUM-20769

Description:

JMX connectors have been fixed so that HPE eIUM can be activated in an IPv6 network.

ID: CMSEIUM-20714

Description:

The logs have been enhanced with additional information about the time each service spends in the polling cycle. To activate this, use the following command:

siucontrol -n ManagementServer -c setLogLevel com.hp.usage.mgmt.PollingService 8

ID: CMSEIUM-20709

Description:

The count of Critical, Warning, and Error messages has now been fixed to match with the log shown in the log viewer.

ID: CMSEIUM-20679

Description:

RefreshCacheRule can now successfully refresh caches through JMX in secure deployments.

ID: CMSEIUM-20675

Description:

The Alarms panel of the eIUM Operations Console has been fixed not to display negative values as the number of alarms.

ID: CMSEIUM-20654

Description:

The Intelligent Search function has been fixed, and is now able to search the Timestamp, Source, and Message columns properly in the Alarm panel.

ID: CMSEIUM-20050

Description:

SNMEAdornmentRule map now supports keys with spaces.

ID: CMSEIUM-19994

Description:

The SMTPClientConnector has been fixed to skip connection check and an extra NOOP command after an EHLO/HELO command.

ID: CMSEIUM-19545

Description:

The connection leak in TCPConnector has been fixed.

ID: CMSEIUM-19344

Description:

The collector has been fixed not to attempt to connect to the registry when the -registry option is not specified.

ID: CMSEIUM-5999

Description:

When JDBCQuery operation was configured in nested order in the configuration, the DB connection was not released until all the JDBCQuery had been completed. This could lead to deadlock situation when the number of the available DB connections was less in the JDBCConnectionPool. This has been fixed now; connections are returned to the pool as soon as the query is executed.

ID: CMSEIUM-5096

Description:

The RuleChainAlgorithm with DestinationAddressAttrName now checks a backend server status and does not allow to send the message to a paused server.

Chapter 8. Cumulative Patch ID: 20210715-1123

8.1. Enhancements

ID: CMSEIUM-20685

Description:

The journal view in the CIS UI has been enhanced.

In the Action field of the journal record, the generic string "Execute custom target" now includes a specific custom target name that is being executed. The pattern is "Execute UpdateCommon custom target", where UpdateCommon is the name of the custom target defined in the VNF Descriptor.

ID: CMSEIUM-20668

Description:

Arrays containing items greater than 65535 were not getting encoded correctly. This has been fixed now.

ID: CMSEIUM-20555

Description:

SNMEReaderFactory now supports reading of map type SNME attributes from binary data stores.

ID: CMSEIUM-20554

Description:

SNMEWriterFactory now supports writing of map type SNME attributes to the binary data stores.

ID: CMSEIUM-20551

Description:

The DecisionTableRule now supports ErrorHandler and NoMatchRule.

ID: CMSEIUM-20448

Description:

SMTPClientConnector with CacheConnection=false now allows multiple connections to be created at the same time.

ID: CMSEIUM-20417

Description:

MBean registration monitor traces the MBean server registration activity and notifies the user about too frequent registration/deregistration actions by sending an alarm. In case of receiving such an alarm, operators can review the configuration and disable manageable resources responsible for such activity.

ID: CMSEIUM-20384

Description:

The SNMEAdornmentRule copy operation now supports range parameters.

ID: CMSEIUM-20268

Description:

The SMTPClientConnector configuration has been enhanced with the ResponseCodeAttribute. This attribute is configured with an NME attribute. The SMTP client connector sets the value of the response code returned by the SMTP server, in the NME attribute referred by ResponseCodeAttribute.

ID: CMSEIUM-20266

Description:

Usage parameters support more than one NME as key in dynamic statistics. Those attributes can be specified as a list in UsageParametersInterface; the list elements are separated by the "|" symbol. Along with the name of the NME attribute, it supports an alternative name that can be used as an additional property.

ID: CMSEIUM-20242

Description:

Prometheus exporter is now able to provide additional labels for metrics. Those labels can be defined in usage parameters.

ID: CMSEIUM-20196

Description:

The decision table CLI tool (dttool) now supports the list operation that lists the existing decision tables.

ID: CMSEIUM-20182

Description:

A new functionality has been created to support sending and receiving NGAP PDU requests. It uses ASN.1 encoding and decoding.

ID: CMSEIUM-20146

Description:

The decision table CLI tool (dttool) now supports importing Excel files.

ID: CMSEIUM-20145

Description:

The decision table CLI tool (dttool) now supports exporting to Excel and XML formats.

ID: CMSEIUM-20144

Description:

The decision table CLI tool (dttool) now supports the delete table operation.

ID: CMSEIUM-19904

Description:

The AdornmentRule has been extended with the IPV6Range operation that returns the minimum and maximum network range and prefix length for a given IPv6 address.

ID: CMSEIUM-19673

Description:

HPE eIUM 10.6.1 uses VoltDB 10.2.4 LTS version.

ID: CMSEIUM-18683

Description:

The JSON-codec now supports Map type. The XFD-syntax has been extended to describe map attribute.

8.2. Defects

ID: QXCR1001611560

Symptoms:

FilePersistentStore and FileNamingPolicy under NMEStore generated out of sequence files when the files were generated too frequently.

ID: QXCR1001610764

Symptoms:

DelimiterParser did not reject incomplete records with UseAllTokens set to true, even when ValidateTokenCount is set to true.

Resolution:

DelimiterParser has been fixed to work correctly when UseAllTokens is set to true, along with ValidateTokenCount set to true.

ID: QXCR1001555760

Symptoms:

ArrayIndexOutOfBoundsException occurs in RadiusConnector when the received tag is 255, which causes the process to crash.

Resolution:

RadiusConnector has been fixed to work correctly when receiving a tag 255, and not to crash the process in that case.

ID: CMSEIUM-20684

Description:

In 10.6, SimpleProtocol allows response tracking when PreserveRequest=true. That is, when a response does not arrive within the time interval specified by TCPEndPoint.SocketTimeout (in milliseconds), the error rule is executed with a ConnectionTimedoutException. With this fix, it is no longer needed to configure Connector.SynchronousCallTimeout, and SocketTimeout should be configured instead.

ID: CMSEIUM-20642

Description:

The Data command of the SMTPConnector has been fixed to render appropriate content data while retaining the .CRLF as terminating characters in the DataCommandBinaryAttribute.

ID: CMSEIUM-20586

Description:

eIUM security defaults have been changed to have a default certificate key strength of 2048 while generating the internal certificates. The patch must be installed before the activation for the parameters to fully take effect. For already activated instances, the following steps must be performed:

1.) Delete the certificate nodes under root context in the lookup LDAP server.

2.) Deactivate the eIUM instance.

3.) Run secactivate cleanup to delete existing keystores.

4.) Run the activate tool to reactivate.

ID: CMSEIUM-20581

Description:

In case the Binary attribute is null in the payload, then encoding skips that attribute and does not throw null.

ID: CMSEIUM-20573

Description:

Swaggertool and OpenAPI components have been fixed to support allOf types in the YAML file.

ID: CMSEIUM-20561

Description:

HttpProtocol has been fixed to send response without Content-Length when Transfer-Encoding is chunked.

ID: CMSEIUM-20543

Description:

AdornmentRule template operation has been fixed to not fail with NoClassDefFoundError.

ID: CMSEIUM-20495

Description:

Fixed HttpProxy to populate peer key information from the open/active connection instead of remote peer's Host address.

ID: CMSEIUM-20480

Description:

HPE eIUM 10.6.1 supports MariaDB 10.5.10.

ID: CMSEIUM-20461

Description:

Race condition in SNME has been fixed in SoapHttpRequest with SynchronousCallTimeout.

ID: CMSEIUM-20432

Description:

The data types for compatibleSpecificationVersions and vnfmInfo attributes of VnfPkgInfo entity have been updated to be compatible with the NFVD version 5.1.3.

ID: CMSEIUM-20429

Description:

MM1DecoderFactory has been fixed to decode MM1-Send-Req header and set the char-set value to

the Content-Type field.

ID: CMSEIUM-20335

Description:

RetryCountOnNoData under PollingRecordEncapsulator has been fixed to work correctly when set to 0 (which implies no retry attempts). In case there is no data for a given sub-encapsulator, PollingRecordEncapsulator moves to the next sub-encapsulator without any wait time.

ID: CMSEIUM-20334

Description:

CIS was not able to parse packages fetched from the NFVO if the script for a VDU node was referring a "script_path" instead of "script_content". This issue has been fixed now.

ID: CMSEIUM-20308

Description:

ConnectionCheck has been fixed to execute FalseRuleChain instead of throwing an exception.

ID: CMSEIUM-20304

Description:

MaxInactiveInterval configuration attribute has been removed from the HttpConnector because Tomcat 8.5 does not support it anymore.

ID: CMSEIUM-20228

Description:

The IndexOutOfBoundsException errors have been fixed in the ManagementServer during shut down.

ID: CMSEIUM-19854

Description:

The Siucontext cleanup/Session server cleanup have been fixed to skip Sessionstore cleanup when CommonPolicyId or ConnectionPolicy is configured. To maintain data consistency, such tables present in multiple DBs are to be cleaned up manually. The description of the cleanup command in the HPE eIUM Command Reference has been updated accordingly.