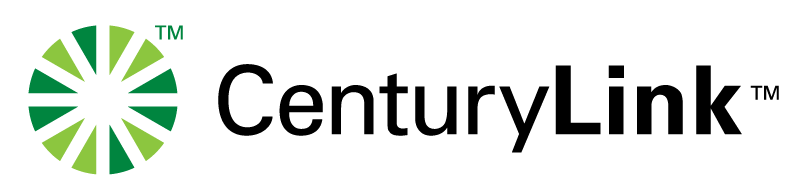
****

**JBoss EAP Release Definition Document for:** COMA

This document describes the Release Definition for COMA This document is subject to review, approval, and change control procedures. This is a living document and subject to revisions. This document must be completed and reviewed accordingly by Development. If a Section of the document is deemed, *Not Applicable* (N/A), enter “*Not Applicable”* within the identified.

**The JBoss EAP Release Definition Document Template located at URL:**

<http://qshare/sites/EAO/fossops/EAP%20Getting%20Started%20for%20Developers/Jboss-EAP_Release_Definition_Document.doc>

This document covers all coding, delivery, and naming standards to support your application delivery into test and production. Failure to review this document will result in a delay of acceptance of your code by the FOSS installation team.

Prepared By:

CenturyLink Information Technologies

Mohit Bansal

**Document Information**

**Document Owner/Contact**

<mailto:fossops@centurylink.com>

**Document Location**

This document template is located at: <http://qshare/sites/EAO/fossops/default.aspx>

**Document History**

All revisions made to this document are listed here in chronological order.

| **Date** | **Author** | **Version Number** | **Description** | **Nature of Revision** |
| --- | --- | --- | --- | --- |
| 06/15/2012 | John Liptak | 1.0 | 1 | Initial Draft |
| 09/25/2012 | FOSS Qcut | 1.1 | Update | 2nd Draft |
| 01/03/2013 | Michele Levenson | 1.2 | Update | Update contact information |
| 01/17/2013 | Michele Levenson | 1.3 | Update | Update ClearTrust WebAgent details |

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# Project Overview

The Contract Management System is being built to support the accurate and timely loading of data required for CLEC contracts. The system will house all SGATs and CLEC specific Exhibit As. The Classes of Service and USOCs required for the implementation of CRIS and IABS products and how they associate to the SGAT will be housed and maintained in the system.

All the information about contracts made with CLECs will be maintained here. Each CLEC have USOCs those are associated with their contract. When a CLEC wants to order a product from CenturyLink, they have to provide correct USOCs to CenturyLink. The IMA takes care of validating USOCs. After transferring the product to the CLEC, the CenturyLink will bill the CLEC using the billing system depending upon the contract and services providing.

A region/state may have some or all of the contracts offering to co-providers depending upon the CenturyLink operational aspects. A CLEC can engage in more than one contract based on their needs.

In case of payment to the CenturyLink, there is a recurring payment in which the bills will be generated on a duration basis and non-recurring payment which is one-time payment. Both will be performed in case of users and co-providers.

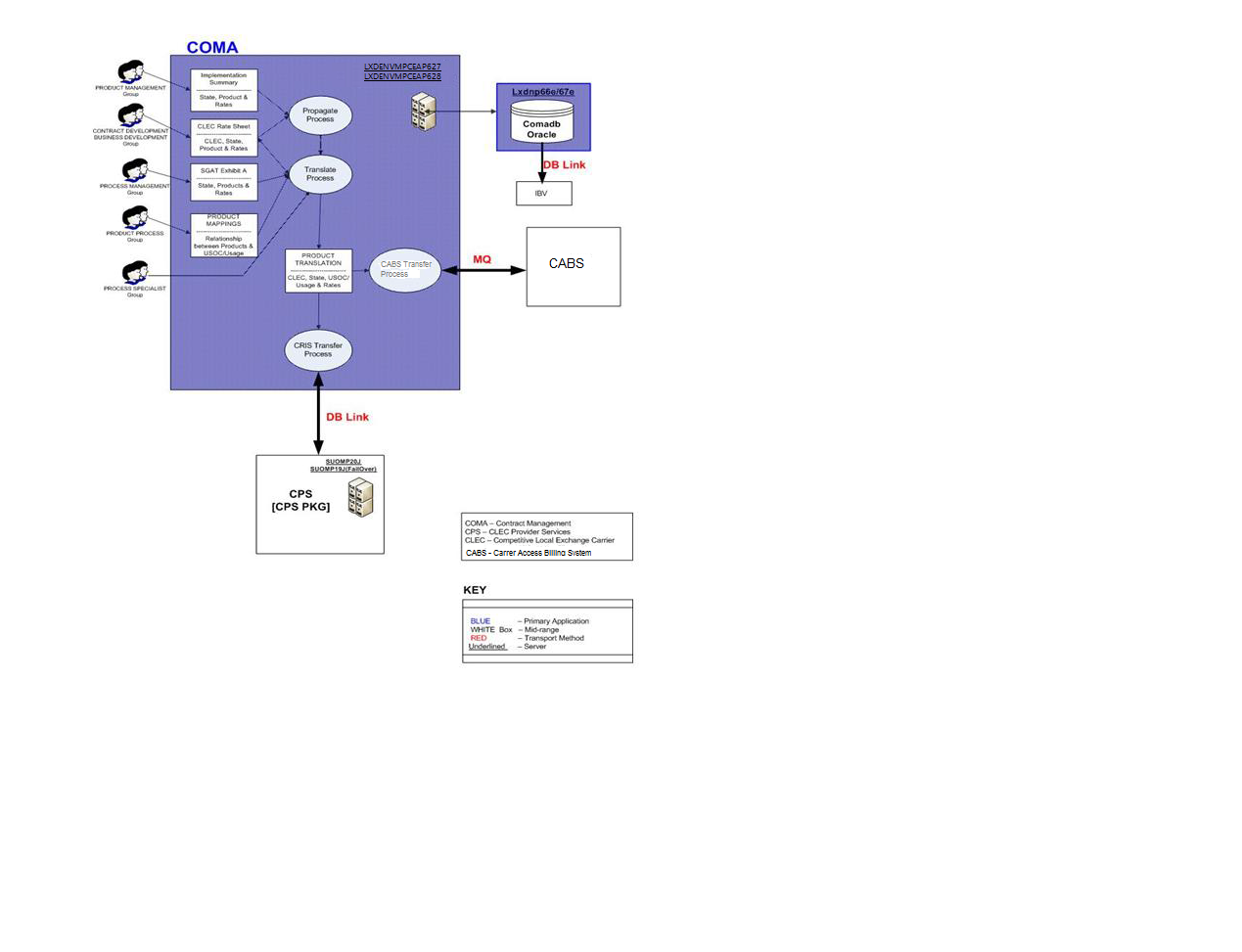


Figure 1 - COMA: Top‑Level Architecture

## Release Information

*<Requirement> Provide all required information to support the deployment of your application:*

| ***Property*** | ***Value*** |
| --- | --- |
| Dimensions DB | IT4000 |
| Project Name | COMA |
| Build # | 1.0.13 |
| SMR # | COMA\_SMR\_13 |
| WBS | PR0022229 |

## Referenced Documents

The documents listed in the table below are referenced within this RDD.

Table 1 - Referenced Documents

| ***Title*** | ***Purpose*** | ***Location*** |
| --- | --- | --- |
|  |  |  |
|  |  |  |

## Personnel Contact List

*<Requirement> This section shall identify the contact and area of responsibility to support the project’s installation activities.*

Table 2 – Organizational Responsibilities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Name*** | ***Net Tool Pin*** | ***Email*** | | ***Responsibility*** |
| FOSSOPS | 95214 | [fossops@centurylink.com](mailto:fossops@centurylink.com) | FossOps Lead | |
|  |  |  | IT Program Management | |
|  |  | Jay Fulks | Onshore Dev lead | |
|  | 36843 | Sachin Karinagashettar | Technical Lead | |
|  |  | Mohit Bansal | Developer | |
|  |  | Lohith Sai Charan Desireddy | Assigned System Tester | |
|  |  |  | Tier II Production Application Support Engineer (PASE) | |
| Amaresh Pattanayak | 99836 | [Amaresh.Pattanayak@CenturyLink.com](mailto:Amaresh.Pattanayak@CenturyLink.com) | Dev DBA | |
| Enterprise Test | 97293 | [etsuport@centurylink.com](mailto:etsuport@centurylink.com) | Enterprise Test | |
| John Liptak |  | [John.Liptak@centurylink.com](mailto:John.Liptak@centurylink.com) | FOSS SW Architecture | |

# Implementation Dates

## Test Date Information

*<Requirement> This section shall identify estimated Test Start Date information.*

|  |  |
| --- | --- |
| ***Estimated Test Start Date*** | 04-08-2021 |
| ***Estimated Test Completion Date:*** | 04-19-2021 |

## Production Date Information

*<Requirement> This section shall identify estimated Production Date information.*

|  |  |
| --- | --- |
| ***Production Install Date*** | 05-01-2022 |
| ***Production Go Live Date*** | 05-01-2022 |

# Installation Requirements

All applications will submit code to Dimensions. Test and Production will only deploy code that is received from Dimensions. After the code has been installed the following additional information will be required to complete the deployment.

## Installation prerequisites

*<Requirement> This section shall identify any prerequisites required to install the application. This identification should include any environment prerequisites, interfaces, third-party software, or drivers required for the application.*

*< Begin Example >*

|  |  |
| --- | --- |
| ***Prerequisite*** | ***Description*** |
| JBOSS-EAP 6.3 | JBOSS-Enterprise Application Platform (EAP) |
| JDK 1.7 | Sun JDK 1.7.0\_05 |
| AzureAD | Webagent |
| Apache 2.2.x | Apache httpd proxy |

*< End Example >*

Table 4 – Installation Prerequisites

|  |  |
| --- | --- |
| ***Prerequisite*** | ***Description*** |
|  |  |

## Application Dependencies

*<Requirement> This section shall list any dependencies that the application will require in test and production environments. Include Legacy systems, Web Services, Applications, Tibco, Databases, and any other systems that this project uses.*

Table 5 – Application Dependencies

|  |  |
| --- | --- |
| ***Dependency*** | ***Reason for Dependency*** |
| comas001 | imapchpr database for COMA test application. |
| comap000 | Imabv database for COMA production application. |
| AzureAD | Application security |

## Pre-Release Activities

<Requirement> This section shall include any special instructions required to install the application successfully. Be sure to include scheduling requirements with the DBAs and other essential departments to the application. Include things like Tibco installations and other 3rd party products as well.

## Java Options

*<Requirement> This section shall identify custom Java options that are being used (See Example below). If Test and Production are the same, indicate such in the following section by placing – “****Same****” within one of the sections. Do not retype the information.*

**Default Configuration:**

*JAVA\_OPTS="-server -Xms512m -Xmx512m -XX:PermSize=256m -D${JBOSS\_INST\_NAME}-${HOSTNAME} - XX:+UseParallelGC -XX:+UseParallelOldGC"*

*JAVA\_OPTS="$JAVA\_OPTS -XX:+HeapDumpOnOutOfMemoryError -XX:HeapDumpPath=${JBOSS\_LOG\_DIR}"*

*JAVA\_OPTS="$JAVA\_OPTS -XX:ErrorFile=${JBOSS\_LOG\_DIR}/hs\_err\_pid%p.log"*

*JAVA\_OPTS="$JAVA\_OPTS -XX:+PrintGCDetails -Xloggc:${JBOSS\_LOG\_DIR}/gclogs.log"*

### Requirements for Test

### Requirements for Production

## Database Requirements

*<Requirement>*If used, please paste the contents of your data source files below.

Example of data sources: Provided in the [EAP Requirement document](ttp://qshare/sites/EAO/fossops/EAP%20Getting%20Started%20for%20Developers/JBOSS-EAP_Requirements.docx) – Section 3.3:

**Dev**

/subsystem=datasources/data-source=COMATxDatabase:add( \

jndi-name="java:jboss/COMATxDatabase", \

driver-name="oracle", \

connection-url="jdbc:oracle:thin:@172.26.14.60:1550:comad001", \

user-name= Coma\_user, \

password= Coma\_user, \

min-pool-size=1, \

max-pool-size=50)

/subsystem=datasources/data-source=COMATxDatabase:enable

/subsystem=datasources/data-source=COMATxDatabase:test-connection-in-pool

**Test**

/subsystem=datasources/data-source=COMATxDatabase:add( \

jndi-name="java:jboss/COMATxDatabase", \

driver-name="oracle", \

connection-url="jdbc:oracle:thin:@172.26.14.62:1551:comas001", \

user-name= coma\_user, \

password= coma\_app, \

min-pool-size=1, \

max-pool-size=50)

/subsystem=datasources/data-source=COMATxDatabase:enable

/subsystem=datasources/data-source=COMATxDatabase:test-connection-in-pool

**E2E**

/subsystem=datasources/data-source=COMATxDatabase:add( \

jndi-name="java:jboss/COMATxDatabase", \

driver-name="oracle", \

connection-url="jdbc:oracle:thin:@comae2e.dev.qintra.com:1551:comae2e", \

user-name=coma\_user, \

password=coma\_app, \

min-pool-size=1, \

max-pool-size=150, \

blocking-timeout-wait-millis=3600000, \

idle-timeout-minutes=15)

/subsystem=datasources/data-source=COMATxDatabase:enable

**Prod**

/subsystem=datasources/data-source=COMATxDatabase:add( \

jndi-name="java:jboss/COMATxDatabase", \

driver-name="oracle", \

connection-url="jdbc:oracle:thin:@comap000.qintra.com:1531:comap000", \

user-name= coma\_user, \

password= coma\_app, \

min-pool-size=1, \

max-pool-size=50)

/subsystem=datasources/data-source=COMATxDatabase:enable

/subsystem=datasources/data-source=COMATxDatabase:test-connection-in-pool

## Additional JBOSS-EAP Configurations

Document any additional configurations your application requires that would need to be added to the <app>.conf file.

Add below statements to .conf file :

PROPERTIES="$PROPERTIES -Dconfiguration.file=coma.properties"

PROPERTIES="$PROPERTIES -DISStageActions=ISStageActions.xml"

**Dev**

PROPERTIES="$PROPERTIES -Denv=dev"

**Test1**

PROPERTIES="$PROPERTIES -Denv=test"

**E2E**

PROPERTIES="$PROPERTIES -Denv=e2e"

**Production**

PROPERTIES="$PROPERTIES -Denv=prod"

Uncomment:

JAVA\_OPTS="$JAVA\_OPTS -Dcom.qwest.appsec.CTECOMFilterConfigFilePath=${JBOSS\_CONFIG\_DIR}/CTECOMFilter.config"

Add the following statements to CTECOMFilter.config file:

checkSourceIP=false

**Transaction Time out needs to be increase to 3600 seconds (1 hr.) Following changes need to be done in Standalone.xml for the subsystem transactions**

<subsystem xmlns="urn:jboss:domain:transactions:1.5">

<core-environment>

<process-id>

<uuid/>

</process-id>

</core-environment>

<recovery-environment socket-binding="txn-recovery-environment" status-socket-binding="txn-status-manager"/>

<coordinator-environment default-timeout="**3600**"/>

</subsystem>

## JMS

*<Requirement> This section shall identify all JMS information needed to setup your application. This includes detailed instructions on how to setup the Stores, Servers, Modules, Subdeployments, and Resources. Note, it is a FOSS requirement that all implementations of JMS have redundancy (ex: distributed queus) and no single points of failure.*

*MQ Series configuration script has already been zipped in cli folder of COMA zip file. No need of external configuration*

Example of data sources: Provided in the [EAP Requirement document](ttp://qshare/sites/EAO/fossops/EAP%20Getting%20Started%20for%20Developers/JBOSS-EAP_Requirements.docx) – Section 3.3

### Requirements for Test

### Requirements for Production

## Keystore

*<Requirement> Identify all steps (step-by-step) for establishing the application’s Keystore configuration.*

*Application keystores are required to be placed within the properties directory.*

## Session State Replication

*<Requirement>*

Does your application have a requirement for Session State Replication? Identify details here:

* Caution – Please ensure that the web.xml contains the <distributable/> element
* Note: All information contained in the session needs to be serializable.

## Apache

*<Requirement>*

Identify your apache configuration requirements here.

Nonstandard configuration requirements, should be listed in table below

For example: rewrite/redirect rules / sticky session

Note: Basic apache configuration information will be provided by the FossOps team and should be pasted into this section.

Table 9 – Apache Configuration Information

|  |  |
| --- | --- |
| ***Apache Option*** | ***Configuration Description*** |
| Test1 | Apache Server Info for coma in test1 ---------------------------------------  WebServer Info for coma-eap-30172-40242 Name=coma-eap-30172-40242 Apache Ports: HTTP=30172, HTTPS=40242 Protocol = AJP using mod\_cluster Mod Cluster = ProxyList Apache Server 1 = lxdenvmtc253.dev.qintra.com Apache Server 1 IP = 172.26.130.138  Apache Server 2 = lxdenvmtc254.dev.qintra.com Apache Server 2 IP = 172.26.130.139  url for test1: <https://coma-test1.test.intranet/coma/Login.jsp> |
| Production | Apache Server Info for coma in prod ---------------------------------------  WebServer Info for coma-prod-30150-40177 Name=coma-prod-30150-40177 Apache Ports: HTTP=30150, HTTPS=40177 Protocol = AJP using mod\_cluster Mod Cluster = ProxyList Apache Server 1 = lxdenvmpc086.qintra.com Apache Server 1 IP = 10.1.51.86  Apache Server 2 = lxdenvmpc087.qintra.com Apache Server 2 IP = 10.1.51.87  Apache Server 3 = lxdenvmpc088.qintra.com Apache Server 3 IP = 10.1.51.88  url for production: <https://coma.foss.corp.intranet/coma/Login.jsp> |

## Third Party .jar modules

*<Requirement> Identify all Third Party .jar files within this Section. Any required jar files need to be bundled into the application located within modules directory. Identify the jar file and a brief description of each file.*

Table 4 – Third Party .jar Files

|  |  |
| --- | --- |
| ***Third Party .jar File*** | ***Description*** |
|  |  |

## RSA ClearTrust Configurations

*<Requirement> Identify any required RSA Access Manager (formerly known as ClearTrust) configurations here.*

*The preferred mechanism to integrate authentication into the application is with the Access Manager webagent.*

*API usage is not recommended. Applications that have specific API requirements must engage the Application Security Team by submitting a work request from this link:* [*http://smp/*](http://smp/) *. Waivers will be granted under specific conditions.*

*Please provide a description that describes how you are using RSA in your application.*

*For details on Application Security, please visit:* [*https://infosec.qintra.com/policies/*](https://infosec.qintra.com/policies/)

*<If using RSA in your app describe here how you are implementing it.>*

*For more information on setting up RSA Cleartrust, the Tomcat Security Filter, and finding RSA contacts please visit the application security web site at* <http://collaboration.ad.qintra.com/sites/appsec/default.aspx>

If using RSA Cleartrust through the apache web servers in FOSS please fill this section out. If you need assistance with this section please ask your FossOps Lead to help.

1. Please provide a cleartrust.agent.web\_server\_name. This name is used when setting up your application on the Cleartrust servers. This name will need to be in the following format (ctl.FOSS.<Application>).

**cleartrust.agent.web\_server\_name=ctl.foss.coma**

2. Custom login and error pages: Below are the default RSA Cleartrust login and error pages. Please modify this section to show your custom pages.

Note: update this section with the URL required to access the appropriate page.

example: http://app.qintra.com/static/error.html would be /static/error.html

**<VirtualHost name=\* address=\* port=30153,40139,80,443>**

**cleartrust.agent.enabled=True**

**cleartrust.agent.cookie\_name=APPSEC\_EMP\_SESSION**

**cleartrust.agent.server\_pool=EMPLOYEE-Test**

**cleartrust.agent.login\_home\_location=/coma/loginservlet**

**cleartrust.agent.logout\_form\_location=/coma/Login.jsp**

**cleartrust.agent.login\_form\_location\_basic=/coma/Login.jsp**

**cleartrust.agent.login\_error\_user\_location\_basic=/coma/LoginFail.jsp**

**cleartrust.agent.login\_error\_pw\_location\_basic= /coma/LoginFail.jsp**

**cleartrust.agent.user\_header\_list=ct\_remote\_user**

**</VirtualHost>**

3. Are there any parts of your application or static pages that should be excluded from the rsa configuration? If you aren’t sure leave this blank.

**cleartrust.agent.url\_exclusion\_list=**

4. What type of authentication will you use: (**Employee**, **Partner, or Consumer (aka** **MyAccount**)?

**Employee** uses Qwest internal LDAP

**Partner** uses client certificates against LDAPEC

**Consumer** uses the MyAccount Database

**Employee**, **Partner, or Consumer: Employee**

6. Do you require the username used in the authentication process to be passed back to your application for authorization purposes inside your application? If so, this will be done by setting the ‘ct\_remote\_user’ variable in the HTTP header. If this is a requirement for you please set the variable below to “ct\_remote\_user”.

**cleartrust.agent.user\_header\_list= ct\_remote\_user**

7. If using RSA via the apache web server (webagent), then you need to implement the Tomcat Security Filter. This filter protects your application from being accessed directly (bypassing the web servers) by internal users. We can configure this filter to only trust traffic from the web servers proxying your requests, by having the web server set a secret value in the header of the request and have the filter look for that. The FOSSOps team will be responsible for setting this up for you. You will be responsible for adding the required tags in your applications web.xml file, and you will need to include the default TomcatSecurityFilter.jar in within your war file (WEB-INF/lib).

*8.* Applications using ClearTrust need to include a .gif; .jpg; .css; .js; or .png file outside the protected directory which can either be used for keepalive and/or application health monitoring .

***Unprotected file:***

## Logging Requirements

Log4j is a module provided by EAP.Applications in FOSS that use Log4j logging will use extension **.rlog**   
Additional details can be found in the [FOSS EAP Requirements document](ttp://qshare/sites/EAO/fossops/EAP%20Getting%20Started%20for%20Developers/JBOSS-EAP_Requirements.docx) – Section 3.16

## Logon Procedures & Start/Stop Procedures for the Application

*<Requirement> Identify all steps for logging on to the application and/or system.*

*<Requirement> Identify how to check, start and stop each process that runs your application. If additional information section are required, add accordingly.*

1. Check if <application> is Running, by providing the URI needed to complete the URL:
   1. *Test:*

**Url for test1**

<https://coma-test1.test.intranet/coma/Login.jsp>

* 1. *E2E:*

**Url for E2E**

[https://coma-e2e.test.intranet/](https://coma-e2e.test.intranet/sample)coma/Login.jsp

* 1. *Production:*

**Url for production**

<https://coma.foss.corp.intranet/coma/Login.jsp>

1. Start <application>: *Application will use the standard FOSS JBOSS-EAP start script*
2. *Shutdown <applicati*on>: *Application will use the standard FOSS JBOSS-EAP stop script*

# Post-Release Activities

*<Requirement> Please include any special instructions required to make your application run successfully. Be sure to include additional configurations, or scheduling requirements with other essential departments to the application. If there are specific tests that Test and Production can do to verify the application is working as expected list those here.*

**Test:**

**Production:**

# Application Procedures

## Backup Procedures

*Unless otherwise required, application backup will be handled by EWEBARS.*

## Installation Backout Procedures

*Unless otherwise required, standard backout procedures will be followed as needed.*

# Subsequent Releases

For subsequent releases update the entire document accordingly, highlighting in RED the changes made to the document and complete the following information.

## Release Notes

*<Requirement> Describe in this section what is new with the application with this release. Include the following information as a minimum:*

**Bug Fixes:**

**New Dependencies:**

**New Features:**

**Changes:**

|  |  |
| --- | --- |
| ***Tar Release version*** | ***Details*** |
| coma.1.0.2.zip  (version 1.0.2.1)  (05/13/2016) | **Bug Fixes**: None  **New Dependencies**: CABS  **New Features:** CR3029 IABS – CABS conversion for COMA application.  **Changes:** 1. Addition of TermId changes in Test Envt. |
| coma.1.0.2.zip  (version 1.0.2.29)  (01/20/2017) | **Bug Fixes**: None  **New Dependencies**: CABS  **New Features:** CR3029 IABS – CABS conversion for COMA application.  **Changes:** 1. Addition of TermId changes.  2. Addition of Replication Functionality at CLEC page  3. Addition of Replication Functionality at COS/USOC mapping page  4. MQ connection change for CABS |
| coma.1.0.2.zip  (version 1.0.2.30)  (02/09/2017) | **Bug Fixes**: 2 Bug fixes, One for color change of 3 screens for production and save edit button  **New Dependencies**: CABS  **New Features:** CR3029 IABS – CABS conversion for COMA application.  **Changes:** None |
| coma.1.0.3.zip  (version 1.0.3.1)  (02/24/2017) | **Bug Fixes**:  **New Dependencies**: COMARS for EASE application. comaRestSvc.war is included  **New Features:** CR6134 - COMARS for EASE application  **Changes:** None |
| coma.1.0.3.zip  (version 1.0.3.13)  (08/27/2017) | **Bug Fixes**: DE37700  **New Dependencies**: COMARS for EASE application. comaRestSvc.war is included  **New Features:** CR6134 - COMARS for EASE application and COMA GUI pages  **Changes:** Fixes for DE37700 |
| coma.1.0.4.zip  (version 1.0.4.1)  (08/08/2017) | **Bug Fixes**: None  **New Dependencies:** None  **New Features:** None  **Changes:** Updated DB config for E2E envt. |
| coma.1.0.5.zip  (version 1.0.5.1)  (09/15/2017) | **Bug Fixes: None**  **New Dependencies: None**  **New Features: None**  **Changes: Implementation of replication functionality for cos/usoc exception** |
| coma.1.0.6.zip  (version 1.0.6.1)  (12/08/2017) | **Bug Fixes**: Database Connection closed after create the new product.  **New Dependencies:** None  **New Features:** None  **Changes:** None |
| coma.1.0.7.zip  (version 1.0.7.3  (04/04/2018) | **Bug Fixes:** None  **New Dependencies:** CABS  **New Features:** UR31167 Addition of new filed Early Termination %.  **Changes:** 1. Addition of field Early Termination % changes. |
| coma.1.0.8.zip  (version 1.0.8.1  (06/18/2018) | **Bug Fixes:** None  **New Dependencies:** None  **New Features:** UR 31191 Changes in drop down on the excel sheet.  **Changes:** 1. Changes in drop down on the excel sheet . |
| coma.1.0.9.zip  (version 1.0.9.1  (09/04/2018) | **Bug Fixes:** None  **New Dependencies:** None  **New Features:** RTB3332 Addition of new supplier id ECI for CLEC rate sheets.  **Changes:** 1. Addition of new supplier id ECI for CLEC rate sheets. |
| coma.1.0.10.zip  (version 1.0.0.10  (09/13/2019) | **Bug Fixes:** None  **New Dependencies:** LDAP  **New Features:** Migration from Cleartrust to LDAP/OAM Authorization  **Changes:** 1. Migration from Cleartrust to LDAP/OAM Authorization |
| coma.1.0.11.zip  (version 1.0.11.1  (01/28/2020) | **Bug Fixes:** None  **New Dependencies:** None  **New Features:** Year extension in calendar from 2020 to 2040  **Changes:** 1. Year extension in calendar from 2020 to 2040 |
| coma.1.0.12.zip  (version 1.0.12.2  (08/19/2021) | **Bug Fixes:** None  **New Dependencies:** newMQ server lxomavmpc058.corp.intranet  **New Features:** MQ Upgrade to new server  **Changes:** 1. Properties and cli scripts file change |
| coma.1.0.13.zip  (version 1.0.13.1  (04/08/2022) | **Bug Fixes:** None  **New Dependencies:** CTL-AD  **New Features:** Migration from CORP LDAP to CTL-AD Authorization  **Changes:** 1. Migration from CORP LDAP to CTL-AD Authorization |

## FOSS Performance Impacts

*<Requirement> Identify anticipated impacts to the system performance, such as response time. Include an estimate of volume of users or transactions per hr or day.*

Table 10 –Performance Impacts

|  |  |
| --- | --- |
| ***Release Feature*** | ***System Performance Impact*** |
|  |  |

## Security Implications

*<Requirement> Within this section, identify all security implications resulting from the release, such as changes in access privileges, data integrity, or requirements for certificate setup. Also, include whether the security team has approved these changes?*

Table 11 – Security Implications

|  |  |
| --- | --- |
| ***Release Feature*** | ***Security Implication*** |
|  |  |