Oracle Utilities Customer Care and Billing

Installation Guide

Release 2.4.0 Service Pack 2

E37713-03

May 2014

ORACLE®

Oracle Utilities Customer Care and Billing Installation Guide

E37713-03

Contents

Chapter 6

Chapter 7

Chapter 8

Chapter 9

Preface

This guide describes how to install Oracle Utilities Customer Care and Billing.

Audience

Oracle Utilities Customer Care and Billing Installation Guide is intended for system administrators installing Oracle Utilities Customer Care and Billing.

To use this document you should have:

* Experience installing and configuring application servers and other software

* Administrative privileges on the host where you are installing the software

Related Documents

For more information, refer to these Oracle documents:

Installation Guides and Release Notes

* *Oracle Utilities Customer Care and Billing V2.4.0.2 Release Notes*

* *Oracle Utilities Customer Care and Billing V2.4.0.2 Quick Install Guide*

* *Oracle Utilities Customer Care and Billing V2.4.0.2 Installation Guide*

* *Oracle Utilities Customer Care and Billing V2.4.0.2 Database Administrator's Guide*

* *Oracle Utilities Customer Care and Billing V2.4.0.2 Optional Product Installation Guide*

Administration and Business Process Guides

* *Oracle Utilities Customer Care and Billing V2.4.0.2 Administration Guide*

* *Oracle Utilities Customer Care and Billing V2.4.0.2 Business Process Guide*

* *Oracle Utilities Application Framework V4.2.0.2 Administration Guide*

* *Oracle Utilities Application Framework V4.2.0.2 Business Process Guide*

Supplemental Documents

* *Oracle Utilities Customer Care and Billing V2.4.0.2 Batch Server Administration Guide*

* *Oracle Utilities Customer Care and Billing V2.4.0.2 Server Administration Guide*

* *Oracle Utilities Customer Care and Billing V2.4.0.2 Security Guide*

Updates to this Documentation

This documentation is provided with the version of the product indicated. Additional and updated information about the operations and configuration of the product is available from the Knowledge Base section of My Oracle Support (http://support.oracle.com). Please refer to My Oracle Support for more information.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Chapter 1

Overview

This chapter provides an overview of the installation of Oracle Utilities Customer Care and Billing, including:

Installation Overview

Installing Oracle Utilities Customer Care and Billing involves the following steps:

1. Review the different tiers of the application architecture as described in Chapter 2: Application Architecture Overview.

2. Understand the hardware requirements for installing the application and the supported platforms for the application and database servers as described in Chapter 3: Supported Platforms and Hardware Requirements.

    > **Note:** The installation and administration of the database server tier is described in detail in the document Oracle Utilities Customer Care and Billing *Database Administrator's Guide.*

3. Review the different types of application installations as described in Chapter 4: Installation Types.

4. Plan your installation as described in Chapter 5: Planning the Installation.

5. Install the database as described in Chapter 6: Installing the Database, and in the document Oracle Utilities Customer Care and Billing *Database Administrator's Guide.*

6. Install all required third-party software as described in Chapter 7: Installing Application Server Prerequisite Software. The required software is listed for each supported combination of operating system and application server.

7. If you are using the WebSphere application server on AIX, configure your server as described in Chapter 8: Configuring WebSphere Application Server.

8. Install the framework for the application as described in Chapter 9: Installing the Application Server Component of Oracle Utilities Application Framework.

9. Install Oracle Utilities Customer Care and Billing as described in Chapter 10: Installing the Application Server Component of Oracle Utilities Customer Care and Billing.

10. Install the most recent Oracle Utilities Customer Care and Billing Service Pack as described in Chapter 11: Installing Version 2.4.0 Service Pack 2.

11. Follow the installation guidelines described in Chapter 12: Additional Tasks.

Chapter 2

Application Architecture Overview

This section provides an overview of the Oracle Utilities Application Framework application architecture.

Application Architecture

The Oracle Utilities Application Framework application is deployed on multiple tiers.

Please see the *Oracle Utilities Customer Care and Billing Server Administration Guide* for a more detailed description of the application architecture and individual tiers.

Tier 1: Desktop/Client, or Presentation Tier

This tier is implemented in a browser-based client. Users use a desktop client web browser to log in to and use the Oracle Utilities Customer Care and Billing application. Note also that a desktop machine running Microsoft Windows and the Oracle client is required to perform some of the Oracle Utilities Customer Care and Billing product installation steps.

Tier 2: Web Application / Business Application Server, or Business Logic Tier

This tier is implemented in a web application server, business application server, or the batch server. The business application component can be installed as part of the web application server, or as a separate component. Except where explicitly noted, most of the Oracle Utilities Application Framework installation documentation assumes that the web application and business application servers reside together. The batch infrastructure will also run within this tier. You can have multiple batch server instances that serve the application.

Tier 3: Database, or Persistence Tier

This tier is implemented in a database server. The database server stores data maintained by the Oracle Utilities Customer Care and Billing application. More specifically, the database tier contains the data server files and database executables that physically store the tables, indexes, and other database objects for your system.

Chapter 3

Supported Platforms and Hardware Requirements

This section gives an overview of the tiers on which the product is implemented, and shows each of the operating system/server combinations that the product is certified for. It includes:

- Software and Hardware Considerations

- Requirements by Tier

- Supported Platforms

- Support for Software Patches and Upgrades

Software and Hardware Considerations

There are many factors that can influence software and hardware decisions. For example, your system may have to satisfy specific performance, availability, or scalability requirements, or to support running in a language other than English. These business requirements, together with the chosen system architecture, should be used in initial software and hardware planning.

Some of the questions that you should answer before beginning the installation include:

• On which hardware platform and operating system will Oracle Utilities Customer Care and Billing be deployed?

• Which web server product will Oracle Utilities Customer Care and Billing deploy on?

• Which database product will Oracle Utilities Customer Care and Billing deploy on?

• Do you plan to deploy multiple Oracle Utilities Customer Care and Billing instances on the same physical server?

• How do you plan to deploy the Oracle Utilities Customer Care and Billing?

  Web/application/database on the same physical server

  Web/application on one server and database on separate server

  Each component on its own server

For detailed descriptions of various deployment architecture choices that may aid in planning, please see the document *Oracle Utilities Application Framework Architecture Guidelines,* available on My Oracle Support (Article ID 807068.1).

The final hardware and software decisions must comply with the specific requirements of the Oracle Utilities Customer Care and Billing product, as described in the rest of this chapter.

Requirements by Tier

The application is deployed on multiple Tiers:

- Tier 1, Desktop

- Tier 2, Web/Business Application Server

- Tier 3, Database Server

Tier 1, Desktop: Software and Hardware Requirements

Configuration	Processor	Memory (RAM)	Monitor Display
Minimum	Pentium IV - 2.0 GHz	1024 MB	1024X768** 16-bit Color
Recommended*	Pentium IV - 3.0+ GHz, Or any Core 2 Duo Or any Athlon X2	2048 MB	1280X1024* 32-bit Color

* The Recommended configuration improves client performance.

** To reduce the amount of scrolling required for pages that are longer than 768 or 1024 pixels, consider placing a monitor into vertical position (with narrow side on the bottom).

Web Browser Requirements

The following operating system / web browser software is supported:

- Windows 7 (32-bit or 64-bit) with Internet Explorer 9.x or 10.x

   Notes: Internet Explorer 9.x and 10.x must have Compatibility Mode enabled.

Tier 2, Web/Business Application Server: Software and Hardware Requirements

Please consult the Supported Platforms to determine which web application servers can be used with the operating system that will be hosting this tier.

The recommendations that follow are based on a standard installation with both the web application and business application servers on the same machine and the system running with the default values. The default values may not support a production environment. You should adjust these values according to your production needs. Refer to the Server Administration Guide on how to change the default values. The minimum resource requirements exclude third-party software installation requirements. Refer to the third- party vendors for specific requirements. The following sizing excludes the Oracle database server installation.

Memory Requirements

For each application server environment a minimum of 4 GB of real memory is required, plus 6 GB of swap space.

Disk Space Requirements

The approximate disk space requirements in a standard installation are as follows:

Location	Size	Usage
$SPLEBASE	5 GB minimum	This location is where the application and Framework get installed. Startup, shutdown and other online log files are stored here. The size and space that is used should be monitored because various debugging options can significantly affect the size of log files.
$SPLAPP	2 GB minimum	This location is used for storing batch log files and output from batch jobs. The size of this space should be influenced by which batches are run and how often, and the amount of debugging information that is collected.
Location of the application web work files on the web servers	1.5 GB minimum	This location is used by the various web server vendors to expand the application. It should be considered when installing these products. Refer to the individual web server documentation to determine the location of the temporary files.
Installation temporary area	4 GB	The application gets installed from this location. You need enough space to uncompress the files and install the application.
Oracle data area	4 GB minimum	This location is where the Oracle database data files are stored. The size of this space should be based on the requirements of the production environment. For an initial or demo database install 4 GB should be sufficient.

Tier 3, Database Server: Software and Hardware Requirements

See the section Supported Platforms for supported database servers.

Supported Platforms

The installation has been tested and certified to operate on many operating system, application server, and database server combinations. For the software requirements for each of these combinations, see Chapter 7: Installing Application Server Prerequisite Software for more information. This section includes the following topics:

- Operating Systems and Application Servers

- Oracle Database Servers

- Oracle WebLogic Server Information

Operating Systems and Application Servers

The following table details the operating system and application server combinations on which this version of Oracle Utilities Customer Care and Billing is supported.

Operating System and Web Browser (Client)	Operating System (Server)	Chipset	Application Server	Database
Windows 7* (Internet Explorer 9.x or 10.x, in Compatibility Mode)	AIX 7.1 TL1	POWER 64-bit	WebLogic 10.3.6 WebSphere 8.5/8.5.5	Oracle 11.2.0.1+ Oracle 12.1.0.1+
	Oracle Linux 5.4/5.8/6.2/6.3/6.4/6.5 (64-bit) (based on Red Hat Enterprise Linux** 5.4/5.8/6.2/6.3/6.4/6.5 (64-bit))	x86_64	WebLogic 10.3.6	Oracle 11.2.0.1+ Oracle 12.1.0.1+
	Oracle Solaris 10 or 11 (64-bit)	SPARC	WebLogic 10.3.6	Oracle 11.2.0.1+ Oracle 12.1.0.1+
	Windows Server 2008 R2 (64-bit) Windows Server 2012 (64-bit) Windows Server 2008 (32-bit)	x86_64	WebLogic 10.3.6	Oracle 11.2.0.1+ Oracle 12.1.0.1+
	HP-UX 11.31 (64-bit)	ia64	WebLogic 10.3.6	Oracle 11.2.0.1+ Oracle 12.1.0.1+

* Oracle support for Windows XP ended December 2013. Microsoft support for Windows XP ended April 2014.

** Oracle Utilities Customer Care and Billing is tested and supported on the versions of Oracle Linux specified. Because Oracle Linux is 100% userspace-compatible with Red Hat Enterprise Linux, Oracle Utilities Customer Care and Billing also is supported on Red Hat Enterprise Linux for this release.

Oracle Database Servers

Oracle Utilities Customer Care and Billing version 2.4.0.2 is supported with Oracle Database Server 11.2.0.2 and Oracle Database 12.1.0.1.0 on all of the operating systems listed above.

The following Oracle Database Server Editions are supported:

- Oracle Database Enterprise Edition
- Oracle Database Standard Edition

> **Note:** Oracle Database Enterprise Edition and the Partitioning and Advanced Compression options are not mandatory but recommended. Standard Edition should only be considered suitable for very small, pilot projects or development environments where scalability, performance, and database size-on-disk are not important considerations. Oracle Database Enterprise Edition, including the Advanced Compression and Partitioning options, is strongly recommended in all other situations.

The Oracle 11.2.0.1/12.1.0.1.0 client is required for this version of the database server.11.2.0.3/12.1.0.1.0.

Oracle WebLogic Server Information

The following Oracle WebLogic Server Editions are supported:

- Oracle WebLogic Server Standard Edition
- Oracle WebLogic Server Enterprise Edition

Support for Software Patches and Upgrades

Due to the ongoing nature of software improvement, vendors will issue patches and service packs for the operating systems, application servers and database servers on top of specific versions that Oracle Utilities Application Framework has been tested with.

If it is necessary to apply an upgrade, please do so in a test environment that is running on the same platform as your production environment prior to updating the Oracle Utilities Customer Care and Billing production environment.

The exceptions from this rule are Hibernate software version 4.1.0. This version should not be upgraded.

Always contact Oracle Utilities Customer Care and Billing support prior to applying vendor updates that do not guarantee backward compatibility.

Chapter 4

Installation Types

This section provides an overview of the different types of application installation.

Initial Installation Compared with Upgrade Installation

Customers installing this version of Oracle Utilities Customer Care and Billing application may or may not have used previous versions of the application.

- If you have not installed and used previous versions of Oracle Utilities Customer Care and Billing, the installation process will create files as well as a database on your system. Depending on what data you choose to install in the database, the database install process is referred to as either initial install or demo install.

- If you have installed and used a previous version of Oracle Utilities Customer Care and Billing, the installation process will still create and / or overwrite files on your system. For the database however, the process will upgrade the existing database to the current version of Oracle Utilities Customer Care and Billing. This process is referred to as an upgrade install. Note that there are restrictions on which previous Oracle Utilities Customer Care and Billing versions can be upgraded to the current version.

Supported Upgrade Paths

The system supports the following upgrade paths:

- Upgrade from Oracle Utilities Customer Care and Billing 2.2.0 Service Pack 10 to 2.4.0 Service Pack 2

- Upgrade from Oracle Utilities Customer Care and Billing 2.3.1 Service Pack 8 to 2.4.0 Service Pack 2

- Upgrade from Oracle Utilities Customer Care and Billing 2.4.0 to 2.4.0 Service Pack 2

- Upgrade from Oracle Utilities Customer Care and Billing2.4.0 Service Pack 1 to 2.4.0 Service Pack 2.

Upgrade Procedure

For an upgrade install, you must upgrade all of the following components

- Database components. Refer to the "Upgrade Install" section of the *Oracle Utilities Customer Care and Billing Database Administrator's Guide* for more information.

- Application components. Refer to Chapter 11: Installing Version 2.4.0 Service Pack 2 for the steps involved in upgrading.

Database Installation: Initial Install Compared with Demo Install

An initial install and demo install both start with an empty database. In the case of initial install, demo data is not populated into the database by the installation process. This installation type is typically used for production environments.

In contrast, the demo install process populates the database with demo data. This installation type is typically used for demo and testing environments.

Chapter 5

Planning the Installation

This chapter provides information for planning an Oracle Utilities Customer Care and Billing installation, including:

- Installation and Configuration Overview

- Before You Install

- Before You Upgrade

- Installation Checklist

- Installation and Configuration Worksheets

Installation and Configuration Overview

The following diagram provides an overview of the steps that need to be taken to install and configure Oracle Utilities Customer Care and Billing:
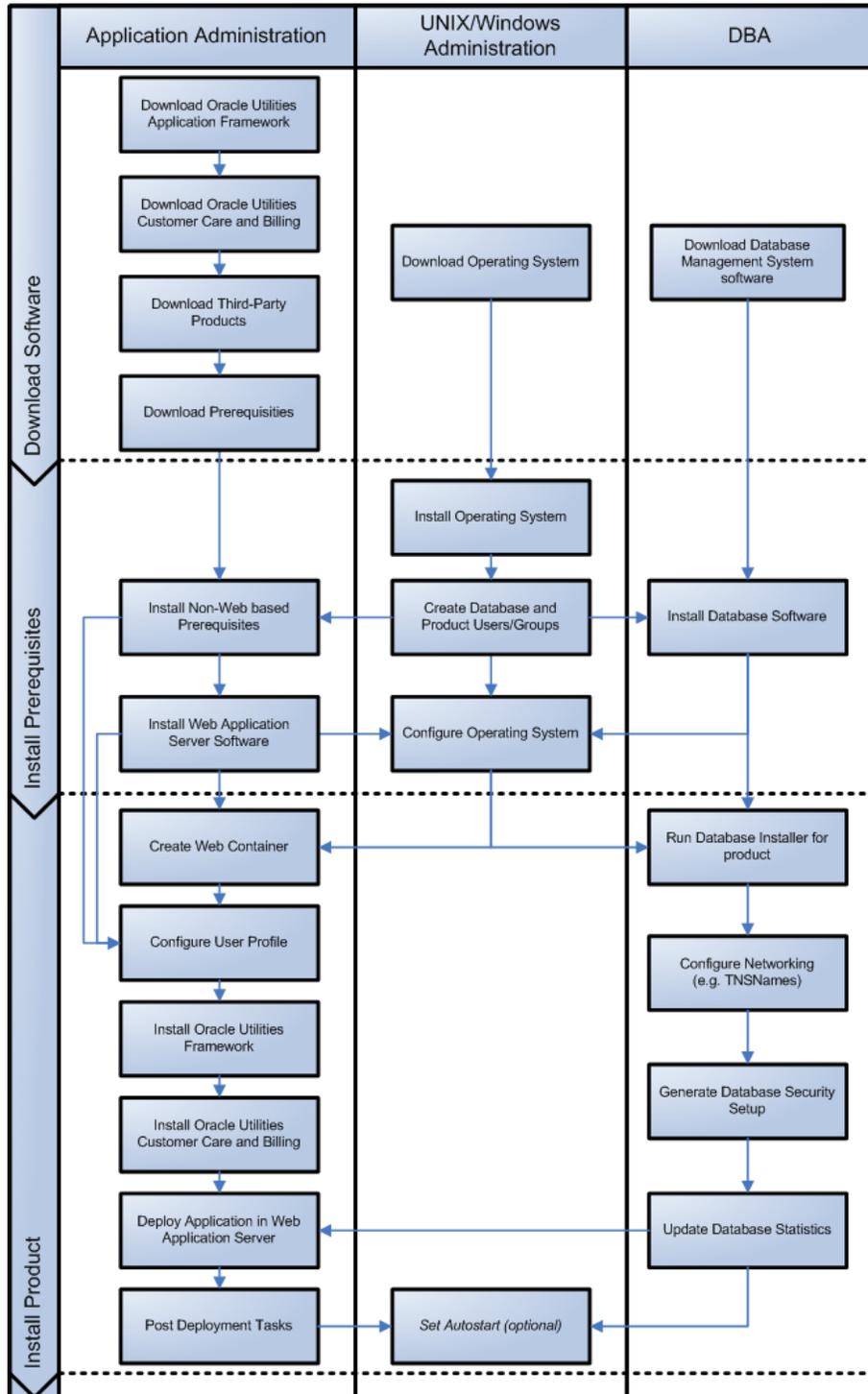
Before You Install

Refer to My Oracle Support for up-to-date additional information on installing Oracle Utilities Customer Care and Billing.

Before You Upgrade

The Java code directory has been restructured in version 2.4.0 in order to better organize the components. Customers who are upgrading may have to change the imports on CM Java classes they have written themselves to conform to the new structure. For details about the new directory structure, see the spreadsheets in the "Package Organization Summary.zip" file, which is located with the documentation in the application.

Installation Checklist

The following checklist will help guide you through the installation process of the application tier. The details for each step are presented in subsequent chapters.

1. Create Group/User ID.

2. Install prerequisite software (for complete details about installing and configuring the prerequisite third-party software for your specific platform, see Chapter 7: Installing Application Server Prerequisite Software):

    • Oracle client 11.2.0.1/12.1.0.1.0

    • Java 6

    • JRockit (if using WebLogic on Linux as an application server)

    • Hibernate 4.1.0

    • Micro Focus Server 5.1 WrapPack 7 or WrapPack 8

3. Install Optional Software.

    The following software is not required for Oracle Utilities Customer Care and Billing to operate:

    • Micro Focus Server Express, with patches (required for recompiling COBOL)

4. Install web server.

    • Oracle WebLogic

    • IBM WebSphere

        Note: If you are upgrading and you are currently running Oracle Application Server please contact your Global Support Representative.

5. Verify that the software installed.

6. Set up environment variables.

7. Install Oracle Utilities Application Framework.

8. Install Oracle Utilities Application Framework prerequisite single fixes.

9. Install Oracle Utilities Customer Care and Billing.

10. Deploy Oracle Utilities Customer Care and Billing application.

11. Complete postinstallation tasks.

12. Optional third-party product integration (such as web self service or reporting tools).

Installation and Configuration Worksheets

During the installation and configuration of the application you will need to provide a variety of system values. These worksheets will assist you in providing that information. They should be completed before installing the application framework, as described in the Chapter 9**:** Installing the Application Server Component of Oracle Utilities Application Framework. No Customer Install Value fields should be left blank.

> **Note:** Some web application server information will not be available until the software installation steps have been completed as described in the Chapter 7**:** Installing Application Server Prerequisite Software.

Installation Menu Functionality Overview

The main configuration menu is structured so that related variables and/or options are grouped together and are associated by a menu item number. To access a particular group of variables and options, enter the menu item number associated with that group. Each option within that group is displayed in turn on the screen, along with a prompt so that you can type the desired value for the option, if it is not the same as the default or current value.

When performing the initial installation you need to go through all menu options. The menu options may have a default value, a list of valid values and a validation check.

On each option prompt you can keep the current value by simply leaving the input line empty. In order to erase a variable value you need to enter one dot ("."). The leading spaces will be trimmed out on each values entered.

> **Note:** When working with the menu you will see the following:
>
> - **Valid Values: [ALFANUM].** This indicates you will need to enter an alphanumeric value in the prompt.
>
> - **Valid Values: [NUM].** This indicates you will need to enter an numeric value in the prompt.

When all options are set, type <P> at the main menu prompt option. This will save the option values selected throughout the configuration.

During this processing the global variables are validated and the configuration file <SPLEBASE>/etc/ENVIRON.INI is created or updated. This file contains all the variables inputted and calculated. These are needed by the next part of the installation process.

To exit the configuration utility without saving any of the values entered, type <X> and 'Enter'

Installation Menu Functionality Details

The Environment Installation Utility requires that Oracle Client Home is set in the path for the user performing the installation.

Prior to running the installation utility you will need to review the supported platforms document to ensure you have all of the Third Party software installed.

In this menu if the variables are set prior to execution, that value will be defaulted by the installation utility when performing the installation.

When the installation has been completed successfully, the values will be written to an ENVIRON.INI file. When splenviron.sh / cmd is executed, it will read from the ENVIRON.INI file to set the environment variables.

In the worksheets there are three different types of values given:

- Default Values are the values that will be defaulted when running the installation utility.

- Security Values denote values that should be changed when in production.

- Example Values are values that can be used for a default installation.

  > **Note:** The production environment should not be run with default values. See the *Oracle Utilities Customer Care and Billing Server Administration Guide* for additional information about configuring these values.

When you enter passwords you will not see the password characters on the screen because they are entered in silent mode. Passwords are encrypted when the values are entered.

Install the Oracle Client software specified in the section **Supported Platforms** prior to running any of the installation utilities.

The following prompt will appear when executing the installation utility:

```
Enter Oracle Client Home Directory (<ENTER> quit):
```

> **Note:** If the environmental variable ORACLE_CLIENT_HOME is set, the install script will validate the variable. If it passes the validation you will not be prompted for it. This is needed in order to run Perl installation utilities.

Encryption Methods

When the application server choice is WebLogic, the Oracle Utilities Application Framework installation uses the Oracle WebLogic API to encrypt the User ID and password that perform admin functions for the WebLogic application servers. Please refer to the Oracle WebLogic documentation for further information about the encryption.

The Oracle Utilities Application Framework installation also uses industry standard cryptography to encrypt passwords that are prompted within the installation.

In each case these password are entered in the command line but the inputted values are not reflected on the screen when performing the installation.

Third Party Software Configuration

```
************************************
* Environment Installation Options *
************************************
1. Third Party Software Configuration
        Oracle Client Home Directory:
        Web Java Home Directory:
        Child JVM Home Directory:
        COBOL Home Directory:
        Hibernate JAR Directory:
        ONS JAR Directory:
        Database Home Directory:
        Web Application Server Home Directory:
        ADF Home Directory:
        OIM OAM Enabled Environment:
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Oracle Client Home Directory	ORACLE_CLIENT_HOME	The home directory of the Oracle Client. The application will use the Perl included under this Oracle Client. Example Location: /oracle/client/product/11.2.0.2	
Web Java Home Directory	JAVA_HOME	Java home that will be used by the web application server. Example Location: /ouaf/java/jdk1.6.0_20	
Child JVM Home Directory	CHILD_JVM_JAVA_HOME	Java home that will be used by the child java process that handles COBOL related requests. Example Location: /ouaf/java/jdk1.6.0_20	
COBOL Home Directory	COBDIR	COBOL installation location directory. Example Location: /opt/SPLcobAS51WP6	
Hibernate JAR Directory	HIBERNATE_JAR_DIR	Location on the disk where the hibernate4 jar files are installed.	
*ONS JAR Directory	ONS_JAR_DIR	Location on the disk where the ons-11.2.0.2.jar file is installed. **Required for Oracle RAC installation. See the Server Administration Guide for more information.	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Database Home Directory	DATABASE_HOME	Location on the disk where database client is installed for your particular installation. Example Location for Oracle Database: /oracle/client/product/11.2.0.2 Note: This value will be the same as the previously entered value for Oracle client.	
Web Application Server Home Directory	WEB_SERVER_ HOME	Location on the disk where the application server is installed. Example Location: WebLogic: /ouaf/middleware/ wlserver_10.3 To validate the home directory, check if the following jar files exist in the appropriate path: $WEB_SERVER_HOME/server/lib/ weblogic.jar %WEB_SERVER_HOME%\server\lib\ weblogic.jar WebSphere: /ouaf/IBM/WebSphere7/AppServer WebSphere ND: /ouaf/IBM/WebSphere70ND/	
* ADF Home Directory	ADF_HOME	Location on the disk where ADF is installed. Example Location: /ouaf/jdev11_1_1_4	

OIM OAM Enabled Environment	OPEN_SPML_ENABL ED_ENV	Denotes if an environment will be integrating with Oracle Identity Manager for user propagation.
		
		Valid values:
		  true
		  false
		
		Defaulted value: false	

*   Denotes optional Menu Options that may be required for the product installation and variables.

**   In order to activate the RAC FCF, the application needs the external ons.jar file, version 11.2.0.2. This ons.jar is located under the Oracle Database Software 11.2.0.2, at the following path:

```
$ORACLE_HOME/opmn/lib/ons.jar
```
The ons.jar should be copied to the Application Server. During the OUAF installation the relevant option should be populated with the folder location of the ons.jar.

Environment Installation Options

```
50. Environment Installation Options
        Environment Mount Point:
        Log Files Mount Point:
        Environment Name:
        Database Type:
        Web Application Server Type:
        Install Application Viewer Module:
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Environment Mount Point	<SPLDIR>	The mount point into which the application is installed. For example: /ouaf for UNIX and C:\ouaf for Windows. This mount point MUST exist and the CCB administrator user ID MUST be able to write to this directory. (This is the user ID that is created specifically to administer the (CCB) environments; the default is cissys). The installation sets permissions on all subdirectories installed under this directory. See <SPLENVIRON> below for more information on how this mount point is used.	
Log File Mount Point	<SPLDIROUT>	A mount point that will contain any application output or application logs. Example value is /ouaf/sploutput for UNIX installation or C:\ouaf\sploutput for Windows. This mount point MUST exist and the CCB administrator user ID MUST be able to write to this directory. (This is the user ID that is created specifically to administer the (CCB) environments; the default is cissys). For each environment initialized, the application logs will be written to the directory <SPLDIROUT>/<SPLENVIRON> Note: Later in the installation the splenviron.sh (splenviron.cmd) script will set the $SPLOUTPUT (%SPLOUTPUT%) environment variable to point to:<SPLDIROUT>/<SPLENVIRON>	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Environment Name	\<SPLENVIRON>	A descriptive name to be used as both a directory name under the mount point \<SPLDIR> and an environment descriptor. This value typically identifies the purpose of the environment. For example, DEV01 or CONV. On installation a directory \<SPLDIR>/\<SPLENVIRON> is created, under which the Oracle Utilities Application Framework and Oracle Utilities Customer Care and Billing software resides. When multiple environments are set up on the machine you will typically have directories such as: /ouaf/DEV01/.... /ouaf/CONV/.... Each of these contains a complete version of the Oracle Utilities Application Framework and Oracle Utilities Customer Care and Billing. Note: Later in the installation process, the splenviron.sh (splenviron.cmd) script will set $SPLEBASE (%SPLEBASE%) environment variable to point to \<SPLDIR>/\<SPLENVIRON>	
Database Type	\<CMPDB>	Type of a database to connect an environment to. Valid values: oracle: Oracle Defaulted value: oracle Note: Not all database types are supported on all platforms; refer to the Supported Platforms section for details.	oracle
Web Application Server Type	\<SPLWAS>	A web application server for the environment to be used. The following value must be selected: Valid values: WLS: WebLogic WAS: WebSphere WASND: WebSphere ND Note: Not all web application servers are supported on all platforms; refer to Supported Platforms section for details.	

Menu Option	Name Used in Documentation	Usage	Customer Install Value

Installation Application Viewer Module	<WEB_ISAPPVIEWER>	Denotes if the Application Viewer Web Module will be installed in the environment. When this value is set to false the application viewer will not be accessible in the environment.
		
		Valid values:
		  true: Application Viewer module will be installed.
		  false: Application Viewer module will not be installed.
		
		Defaulted value: true
		
		Note: When the value of false is selected, the Application Viewer will only be installed at a later date by a complete reinstall of the application.	

Environment Description

```
1. Environment Description
      Environment Description:
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Environment Description	DESC	This is a free form text field to describe the purpose of the environment.	

WebLogic Business Application Server Configuration

The WebLogic parameters below and in the worksheet are for a WebLogic installation.

```
2. Business Application Server Configuration
     Business Server Host:                      <machine_name>
     WebLogic Server Name:                       myserver
     Business Server Application Name:           SPLService
     MPL Admin Port Number:
     MPL Automatic startup:                      false
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Business Server Host	BSN_WLHOST	The host name on which business application server resides. Default value: <current server name>	
WebLogic Server Name	BSN_WLS_SVRNAME	The name of the WebLogic server where the business application resides. Default value: myserver Note: If there is not a previously created WebLogic server, take the default value of "myserver".	
Business Server Application Name	BSN_APP	The name of the business application server. Default value: SPLService	
MPL Admin Port number	MPLADMINPORT	The port number for the Multi Purpose Listener (MPL) Admin Server. Example value: 6502	
MPL Automatic Startup	MPLSTART	Automatically starts the MPL Listener whenever environment starts. Default value: false	

WebSphere ND Business Application Server Configuration

The WebSphere Network Deployment parameters below and in the worksheet are for a WebSphere ND installation.

```
2. Business Application Server Configuration
        Business Server Host:                          <machine_name>
        Bootstrap Port:
        WebSphere Server Name:
        WebSphere Node Name:
        Business Server Application Name:               SPLService
        MPL Admin Port Number:
        MPL Automatic startup:
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Business Server Host	BSN_WLHOST	The host name on which business application server resides. Default value: \<current server name\>	
Bootstrap Port	BSN_WASBOOTSTRAPPORT	The boot strap port number allows the web module to communicate with the EJB module.	
WebSphere Server Name	BSN_SVRNAME	The WebSphere ND Application Server to host the OUAF application. Each OUAF must be installed in a unique WebSphere ND Application Server. Default value: server2	
WebSphere Node Name	BSN_NODENAME	The name of the WebSphere ND Node Name where the WebSphere ND Application Server is running.	
Business Server Application Name	BSN_APP	The name of the business application server. Default value: SPLService	
MPL Admin Port number	MPLADMINPORT	The port number for the Multi Purpose Listener (MPL) Admin Server. Example value: 6502	
MPL Automatic Startup	MPLSTART	Automatically starts the MPL Listener whenever environment starts. Default value: false	

WebSphere Basic Business Application Server Configuration

The WebSphere parameters below and in the worksheet are for a WebSphere installation.

```
2. Business Application Server Configuration
      Business Server Host:                      <machine_name>
      Bootstrap Port:
      WebSphere Server Name:
      WebSphere Node Name:
      Business Server Application Name:          SPLService
      MPL Admin Port Number:
      MPL Automatic startup:
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Business Server Host	BSN_WLHOST	The host name on which business application server resides. Default value: \<current server name\>	
Bootstrap Port	BSN_WASBOOTSTRAPPORT	The boot strap port number allows the web module to communicate with the EJB module.	
WebSphere Server Name	BSN_SVRNAME	The WebSphere Application Server to host the OUAF application. Each OUAF must be installed in a unique WebSphere Application Server. Default value: server2	
WebSphere Node Name	BSN_NODENAME	The name of the WebSphere Node Name where the WebSphere Application Server is running.	
Business Server Application Name	BSN_APP	The name of the business application server. Default value: SPLService	
MPL Admin Port number	MPLADMINPORT	The port number for the Multi Purpose Listener (MPL) Admin Server. Example value: 6502	
MPL Automatic Startup	MPLSTART	Automatically starts the MPL Listener whenever environment starts. Default value: false	

WebLogic Web Application Server Configuration

The WebLogic parameters below and in the worksheet are for a WebLogic installation.

```
3. Web Application Server Configuration
      Web Server Host:                            <machine_name>
      Web Server Port Number:
      Web Context Root:
      WebLogic JNDI User ID:
      WebLogic JNDI Password:
      WebLogic Admin System User ID:
      WebLogic Admin System Password:
      WebLogic Server Name:                       myserver
      Web Server Application Name:                 SPLWeb
      Application Admin User ID:
      Application Admin Password:
      Expanded Directories:                       true
      Application Viewer Module:                   true
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Web Server Host	WEB_WLHOST	The host name on which the web application server resides. Default value: <current server name>	
Web Server Port Number	WEB_WLPORT	A unique port number within the system that will be assigned to the HTTP port. This is the port number that is used as a part of the client URL request to connect to the host. Example value: 6500	
Web Context Root	WEB_CONTEXT_ROOT	A context root name that allows customers to run multiple instances of web application on the same server. Default value: ouaf	
WebLogic JNDI User ID	WEB_WLSYSUSER	The user ID the application uses to connect to the EJB component through JNDI. This is the EJB container user ID. Note: The required value for an initial installation is "system". This is a security value.	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
WebLogic JNDI Password	WEB_WLSYSPASS	The password the application uses to connect to the EJB component through JNDI Note: The required value for an initial installation is "ouafadmin". This value will be saved in encrypted format. This is a security value.	
WebLogic Admin System User ID	WLS_WEB_WLSYSUSER	The user ID to log in to the Oracle WebLogic console and to administer Oracle WebLogic. The Oracle WebLogic startup and stop script also utilizes this user ID Note: The installation utility will prompt you to enter "Y" to encrypt. For an initial installation, enter Y/y and specify the required value "system". This is a security value.	
WebLogic Admin System Password	WLS_WEB_WLSYSPASS	The password to login to Oracle WebLogic console and to administer Oracle WebLogic. The Oracle WebLogic startup and stop script also utilize this password. Note: The installation utility will prompt you to enter "Y" to encrypt. For an initial installation, enter Y/y, and specify the required value "ouafadmin". This is a security value.	
WebLogic Server Name	WEB_WLS_SVRNAME	The name of the WebLogic server where the web application resides. Default value: myserver Note: For an initial installation, use the default value of "myserver".	
Web Server Application Name	WEB_APP	The name of the web application server. Default value: SPLWeb Note: For an initial installation, use the default value of "SPLWeb".	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Application Admin User ID	WEB_SPLUSER	This is the default user ID to login to the application through the browser. Example value: SYSUSER Note: The required value for an initial installation is "SYSUSER". This value is also used in communication within the XAI application. This is a security value.	
Application Admin Userid Password	WEB_SPLPASS	This is the password of the application admin user. Example value: sysuser00 Note: The required value for an initial installation is "sysuser00". This value will be saved in encrypted format This is a Security Value.	
Expanded Directories	WEB_ISEXPANDED	When the value is "true" the web application will be deployed in exploded directory format (no WAR files). When the value is "false", the web application will be deployed in ear file format. Valid values: true: Environment expanded (no WAR files) false: Environment with WAR/EAR files Default value: false	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Application Viewer Module	WEB_ISAPPVIEWER	When the value is "true" the application viewer will be deployed to the web server. When the value is "false", the application viewer will not be deployed to the web Server. Note: With either value the application viewer module will still be managed by the upgrade process. Note: When this value is set to false from the initial install menu you will not be able to change this value to true to re-enable the application viewer. Valid values: true: The application viewer module will be deployed to the web server false: The application viewer module will not be deployed to the web server Default value: true	

WebSphere ND Web Application Server Configuration

The WebSphere ND parameters below and in the worksheet are for a WebSphere ND installation.

```
3. Web Application Server Configuration
     Web Server Host:                                    <machine_name>
     Web Server Port Number:
     Web Context Root:
     WebSphere Server Name:
     WebSphere Node Name:
     Web Server Application Name:
     WebSphere JNDI System User ID:
     WebSphere JNDI System Password:
     Application Admin User ID:
     Application Admin Password:
     Expanded Directories:
     Application Viewer Module:
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Web Server Host	WEB_WLHOST	The host name on which the web application server resides. Default value: <machine_name>	
Web Server Port Number	WEB_WLPORT	The WC_defaulthost number for your WebSpher ND server. This is the port number that is used as a part of the client URL request to connect to the host. Example value: 9081	
Web Context Root	WEB_CONTEXT_ROOT	A context root name that allows customers to run multiple instances of web application on the same installation of WebSphere ND server. Default value: ouaf	
WebSphere Server Name	WEB_SVRNAME	The WebSphere Application Server to host the CCB application. Each CCB must be installed in a unique WebSphere Application Server. Default value: server2	
WebSphere Node Name	WEB_NODENAME	The name of the WebSphere Node Name where the WebSphere Application Server is running.	
Web Server Application Name	WEB_APP	The name of the web application server. Default value: SPLWeb	Web Server Application Name

Menu Option	Name Used in Documentation	Usage	Customer Install Value
WebSphere JNDI User ID:	WEB_WASUSER	User ID the application utilizes to connect to the EJB component through JNDI. This is the EJB container user ID. Note: This value must be a valid User in the WebSphere ND console.	
WebSphere JNDI System Password:	WEB_WASPASS	The password the application utilizes to connect to the EJB component through JNDI. Note: This value will be saved in encrypted format.	
Application Admin User ID	WEB_SPLUSER	This is the default user ID to login to the application through the browser. Example value: SYSUSER Note: This value is also used in communication within the XAI application. Note: This value must be a valid User in the WebSphere ND console. This is a security value.	
Application Admin Userid Password	WEB_SPLPASS	This is the password of the application admin user. Example value: sysuser00 Note: This value will be saved in encrypted format This is a security value.	
Expanded Directories	WEB_ISEXPANDED	When the value is "true" the web application will be deployed in exploded directory format (no WAR files). When the value is "false", the web application will be deployed in ear file format. Valid values: true: Environment expanded (no WAR files) false: Environment with WAR/EAR files Default value: false	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Application Viewer Module	WEB_ISAPPVIEWER	When the value is "true" the application viewer will be deployed to the web server. When the value is "false", the application viewer will not be deployed to the web server. Note: With either value the application viewer module will still be managed by the upgrade process. Note: When this value is set to false from the initial install menu you will not be able to change this value to true to re-enable the application viewer. Valid values: true: The application viewer module will be deployed to the web server) false: The application viewer module will not be deployed to the web server) Default value: true	

WebSphere Basic Web Application Server Configuration

The WebSphere parameters below and in the worksheet are for a WebSphere installation.

```
3. Web Application Server Configuration
     Web Server Host:                              <machine_name>
     Web Server Port Number:
     Web Context Root:
     WebSphere Server Name:
     WebSphere Node Name:
     Web Server Application Name:
     WebSphere JNDI System User ID:
     WebSphere JNDI System Password:
     Application Admin User ID:
     Application Admin Password:
     Expanded Directories:
     Application Viewer Module:
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Web Server Host	WEB_WLHOST	The host name on which the web application server resides. Default value: <machine_name>	
Web Server Port Number	WEB_WLPORT	The WC_defaulthost number for your WebSphere Basic server. This is the port number that is used as a part of the client URL request to connect to the host. Example value: 9081	
Web Context Root	WEB_CONTEXT_ROOT	A context root name that allows customers to run multiple instances of web application on the same installation of WebSphere server. Default value: ouaf	
WebSphere Server Name	WEB_SVRNAME	The WebSphere Basic Application Server to host the CCB application. Each CCB must be installed in a unique WebSphere Basic application server. Default value: server2	
WebSphere Node Name	WEB_NODENAME	The name of the WebSphere Basic Node Name where the WebSphere Basic application server is running.	
Web Server Application Name	WEB_APP	The name of the web application server. Default value: SPLWeb	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
WebSphere JNDI User ID:	WEB_WASUSER	User ID the application utilizes to connect to the EJB component through JNDI. This is the EJB container user ID. Note: This value must be a valid User in the WebSphere console. This is a security value.	
WebSphere JNDI System Password:	WEB_WASPASS	The password the application utilizes to connect to the EJB component through JNDI. Note: This value will be saved in encrypted format. This is a security value.	
Application Admin User ID	WEB_SPLUSER	This is the default user ID to login to the application through the browser. Example value: SYSUSER Note: This value is also used in communication within the XAI application. Note: This value must be a valid User in the WebSphere console. This is a security value.	
Application Admin Userid Password	WEB_SPLPASS	This is the password of the application admin user. Example value: sysuser00 Note: This value will be saved in encrypted format This is a security value.	
Expanded Directories	WEB_ISEXPANDED	When the value is "true" the web application will be deployed in exploded directory format (no WAR files). When the value is "false", the web application will be deployed in ear file format. Valid values: true: Environment expanded (no WAR files) false: Environment with WAR/EAR files Default value: false	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Application Viewer Module	WEB_ISAPPVIEWER	When the value is "true" the application viewer will be deployed to the web server. When the value is "false", the application viewer will not be deployed to the web server. Note: With either value the application viewer module will still be managed by the upgrade process. Note: When this value is set to false from the initial install menu you will not be able to change this value to true to re-enable the application viewer. Valid values: true: The application viewer module will be deployed to the web server) false: The application viewer module will not be deployed to the web server) Default value: true	

Database Configuration

```
4. Database Configuration
        Web Application Database User ID:
        Web Application Database Password:
        MPL Database User ID:
        MPL Database Password:
        XAI Database User ID:
        XAI Database Password:
        Batch Database User ID:
        Batch Database Password:
        Database Name
        Database Server:
        Database Port:
        ONS Server Configuration:
        Database Override Connection String:
        Oracle Client Character Set NLS_LANG:  AMERICAN_AMERICA.AL32UTF8
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Web Application Database User ID	DBUSER	The database user ID that has been configured on the database for the web application server connection. This is a security value.	
Web Application Database Password	DBPASS	The database password that has been configured on the database for the web application connection. Note: This value will be saved in encrypted format. This is a security value.	
MPL Database User ID	MPL_DBUSER	The database user ID that has been configured on the database for the MPL server connection. This is a security value.	
MPL Database Password	MPL_DBPASS	The database password that has been configured on the database for the MPL server connection. Note: This value will be saved in encrypted format. This is a security value.	
XAI Database User ID	XAI_DBUSER	The database user ID that has been configured on the database for the XAI server connection. This is a security value.	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
XAI Database Password	XAI_DBPASS	The database password that has been configured on the database for the XAI server connection. Note: This value will be saved in encrypted format. This is a security value.	
Batch Database User ID	BATCH_DBUSER	The database user ID that has been configured on the database for the batch connection. This is a security value.	
Batch Database Password	BATCH_DBPASS	The database password that has been configured on the database for the batch connection. Note: This value will be saved in encrypted format. This is a security value.	
Database Name	DBNAME	The name of the database instance that the application will be connecting to.	
Database Server	DBSERVER	Host name of the server where database resides.	
Database Port	DBPORT	Database port number on the database server used for connecting to the database	
ONS Server Configuration	ONSCONFIG	ONS Server Configuration is required for Oracle RAC FCF. See the Server Administration Guide for more information. This is an optional value.	
Database Override Connection String	DB_OVERRIDE_CONNECTION	This connection string can be used to override the database information entered above for RAC installation. Set this string to override the standard database connection string, as entered above. See the Server Administration Guide for more information. This is an optional value.	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Oracle Client Character Set NLS_LANG	NLS_LANG	The Oracle Database Character Set. Select the Language and Territory that are in use in your country. Default value: AMERICAN_AMERICA.AL32UTF8	

General Configuration Options

> **Note:** See the *Oracle Utilities Customer Care and Billing Batch Server Administration Guide* for additional details on this configuration.

```
5. General Configuration Options
      Batch RMI Port:
      Batch Mode:                              CLUSTERED
      Coherence Cluster Name:
      Coherence Cluster Address:
      Coherence Cluster Port:
      Coherence Cluster Mode:                  dev
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Batch RMI Port	BATCH_RMI_PORT	Unique port used by the Batch RMI.	
Batch Mode	BATCH_MODE	Valid values: CLUSTERED or DISTRIBUTED Default value: CLUSTERED Note: CLUSTERED is currently the only supported mode for production environments.	
Coherence Cluster Name	COHERENCE_CLUSTER_NAME	Unique name for the batch CLUSTER Note: Value is required when batch mode is CLUSTERED.	
Coherence Cluster Address	COHERENCE_CLUSTER_ADDRESS	Unique multicast address. Note: Value is required when batch mode is CLUSTERED.	
Coherence Cluster Port	COHERENCE_CLUSTER_PORT	Unique port for the batch CLUSTER Note: Value is required when batch mode is CLUSTERED.	
Coherence Cluster Mode	COHERENCE_CLUSTER_MODE	Valid values: dev (Development) prod (Production) Default value: dev	

Advanced Menu Options

The advanced menu options are not available during installation. These options can be accessed after installation using the following commands:

Unix:

```
$SPLEBASE/bin/configureEnv.sh -a
```

Windows

```
%SPLEBASE%\bin\configureEnv.cmd -a
```

Advanced Environment Miscellaneous Configuration

```
50. Advanced Environment Miscellaneous Configuration
        Online JVM Batch Server Enabled:                false
        Online JVM Batch Number of Threads:             5
        Online JVM Batch Scheduler Daemon Enabled:      false
        JMX Enablement System User ID:
        JMX Enablement System Password:
        RMI Port number for JMX Business:
        RMI Port number for JMX Web:
        GIS Service Running on the same Web Server:     true
        GIS Service URL:
        GIS WebLogic System User ID:
        GIS WebLogic System Password:
        Online Display Software Home:
```

Menu Option	Name Used in Documentation	Usage	Customer Value Install
WebSphere Deployment Manager Host Name	WASND_DMGR_HOST	WebSphere Deployment Manager Host name, this value is used for WebSphere ND, when connecting to the WebSphere Deployment Manager. Note: This value will only appear for WebSphere ND.	
Online JVM Batch Server Enabled	BATCHENABLED	When starting a web application server JVM, this property can be set to "true" to allow the on-line application server to also act as a batch worker in the grid. Default value: false Note: This functionality should only be used in low volume environments.	

Menu Option	Name Used in Documentation	Usage	Customer Value Install
Online JVM Batch Number of Threads	BATCHTHREADS	The maximum number of batch processing threads to be executed within a worker JVM when no explicit Distributed Thread Pool is specified. The "DEFAULT" distributed thread pool is used by the batch-scheduling daemon when it initiates processing on batch jobs (typically added via the online system) where no thread pool is specified). Default value: 5 Note: This will be only used and activated when BATCHENABLED is set to true.	
Online JVM Batch Scheduler Daemon Enabled	BATCHDAEMON	In a distributed batch environment, this property can be set to "true" to allow a worker JVM to host the batch scheduling daemon. The daemon accepts online batch submissions requests and automatically submits the work for them. Valid values: true, false Default value: false Note: This will be only used and activated when BATCHENABLED is set to true.	
JMX Enablement System User ID	BSN_JMX_SYSUSER	Example value: user This value is optional.	
JMX Enablement System Password	BSN_JMX_SYSPASS	Example value: admin Note: This value will be saved in encrypted format. This value is optional.	
RMI Port number for JMX Business	BSN_JMX_RMI_PORT_PERFORMACE	JMX Port for business application server monitoring. This needs to be set to an available port number on the machine. This value is optional.	

Menu Option	Name Used in Documentation	Usage	Customer Value Install
RMI Port number for JMX Web	WEB_JMX_RMI_PORT_PERFORMACE	JMX Port for web application server monitoring This needs to be an available port number for the environment running on the machine. This value is optional.	
GIS Service Running on the same Web Server	GIS	Geographical information (GEOCODING) - GIS Service running on the same web application server Valid values: true, false This value is optional.	
GIS Service URL	GIS_URL	This is the URL of the external web server. Note: This value will be only be used when GIS is set to true. This value is optional.	
GIS WebLogic System User ID	GIS_WLSYSUSER	GIS WebLogic System User ID Note: This value will be only be used when GIS is set to true. This value is optional.	
GIS WebLogic System Password	GIS_WLSYSPASS	GIS WebLogic System Password. Note: This value will be only be used when GIS is set to true. This value is optional.	
Online Display Software Home	ONLINE_DISPLAY_HOME	The location of the Online Display Software installation directory. This value is optional.	

Advanced Environment Memory Configuration

```
51. Advanced Environment Memory Configuration
      JVM Child Memory Allocation:                        512
      JVM Child Additional Options:
      Web Application Java Initial Heap Size:             1024
      Web Application Java Max Heap Size:                 1024
      Web Application Java Max Perm Size:                  500
      Web Application Additional Options:
      Ant Min Heap Size:                                  200
      Ant Max Heap Size:                                  800
      Ant Additional Options:
      Thread Pool Worker Java Min Heap Size:              512
      Thread Pool Worker Java Max Heap Size:             1024
      Thread Pool Worker Java Max Perm Size:              768
      Thread Pool Worker Additional Options:
      Additional Runtime Classpath:
      Release Cobol Thread Memory Options:
   -Dspl.runtime.cobol.remote.releaseThreadMemoryAfterEachCall=...
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
JVM Child Memory Allocation	JVMMEMORYARG	Heap size for the JVM Child. Default value: 512	
JVM Child Additional Options	JVM_ADDITIONAL_OPT	Additional JVM options that are passed to the Child JVM. Note: For WebLogic installation only.	
Web Application Java Initial Heap Size	WEB_MEMORY_OPT_MIN	Initial heap size for the application server. Default value: 1024 Note: For WebLogic installation only.	
Web Application Java Max Heap Size	WEB_MEMORY_OPT_MAX	Maximum heap size for the application server. Default value: 1024 Note: For WebLogic installation only.	
Web Application Java Max Perm Size	WEB_MEMORY_OPT_MAXPERMSIZE	Maximum Perm Size for the application server. Default value: 500 MB (Linux, Solaris) 300 MB (Windows, HP-UX) Note: For WebLogic installation only.	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Web Application Additional Options	WEB_ADDITIONAL_ OPT	Additional options that will be passed in to the web application server JVM. Optional Entry. Note: For WebLogic installation only.	
Ant Min Heap Size	ANT_OPT_MIN	Minimum Heap Size passed to ANT JVM. Default value: 200	
Ant Max Heap Size	ANT_OPT_MAX	Maximum Heap Size passed to ANT JVM. Default value: 800	
Ant Additional Options	ANT_ADDITIONAL_ OPT	Additional options that are passed into the ANT JVM.	
Thread Pool Worker Java Min Heap Size	BATCH_MEMORY_O PT_MIN	Minimum heap size passed to the Thread Pool Worker. Default value: 512	
Thread Pool Worker Java Max Heap Size	BATCH_MEMORY_O PT_MAX	Maximum heap size passed to the Thread Pool Worker. Default value: 1024	
Thread Pool Worker Java Max Perm Size	BATCH_MEMORY_O PT_MAXPERMSIZE	Maximum perm size passed to the Thread Pool Worker Default value: 768	
Thread Pool Worker Additional Options	BATCH_MEMORY_A DDITIONAL_OPT	Additional Memory Options passed into the Thread Pool Worker. This is an optional free form field.	
Additional Runtime Classpath	ADDITIONAL_RUNT IME_CLASSPATH	Additional Classpath Options passed in when starting the WebLogic JVM Note: For WebLogic installation only. This is an optional value.	
Release Cobol Thread Memory Options	REL_CBL_THREAD_ MEM	Allow for child JVMs to be optionally configured to release thread-bound memory when each thread is returned to its thread pool. This will increase the number of memory allocations and memory free calls performed by the Microfocus runtime. It will also lower the amount of C-heap memory consumed by child JVMs. Valid values: true, false Default value: false	

Advanced Web Application Configuration

```
52. Advanced Web Application Configuration
      WebLogic SSL Port Number:
      WebLogic Console Port Number:
      WebLogic Additional Stop Arguments:
      Strip HTML Comments:                        false
      Authentication Login Page Type:             FORM
      Web Form Login Page:                        /loginPage.jsp
      Web Form Login Error Page:                  /formLoginError.jsp
      Web Security Role:                          cisusers
      Web Principal Name:                         cisusers
      This is a development environment:          false
      Preload All Pages on Startup:               false
      Maximum Age of a Cache Entry for Text:      28800
      Maximum Age of a Cache Entry for Images:    28800
      JSP Recompile Interval (s):                 43200
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
WebLogic SSL Port Number:	WEB_WLSSPORT	The port number assigned to WebLogic Secure Sockets connection. This is the port number that is used for Secure Sockets connecting to the WebLogic server. The Secure Sockets implementation is disabled in the default configuration. For Production additional actions are required. Do NOT run Production with Demo certificates Refer to the WLS installation guide - Configuring Identity and Trust When this value is populated http will be disabled. Example value: 6501 Note: For WebLogic installation only. This value is optional.	
WebLogic Console Port Number	WLS_ADMIN_PORT	The port number assigned to WebLogic Console connection. This is the port number that is used for Secure Sockets connecting to the WebLogic Console server. Note: For WebLogic installation only. This value is optional.	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
WebLogic Additional Stop Arguments	ADDITIONAL_STOP _WEBLOGIC	WebLogic Additional Stop Arguments This value is required when running the WebLogic Console Port Number and the Application using SSL. Example values: -Dweblogic.security.TrustKeyStore= DemoTrust -Dweblogic.security.TrustKeystoreType= CustomTrust Note: For Production additional actions are required. Do NOT run Production with Demo certificates Refer to the WLS installation guide - Configuring Identity and Trust Note: For WebLogic installation only. This is an optional value.	
Strip HTML Comments	STRIP_HTML_COMM ENTS	Stripping HTML (and JavaScript) comments will increase the security of the system. Default value: false Valid values: true, false	
Authentication Login Page Type	WEB_WLAUTHMET HOD	Specifies which authentication mode should be used. To switch off OUAF Login Page enter: BASIC Valid values: FORM, BASIC Default value: FORM	
Web Form Login Page	WEB_FORM_LOGIN _PAGE	Specify the jsp file used to login into the application. Default value: /loginPage.jsp	
Web Form Login Error Page	WEB_FORM_LOGIN _ERROR_PAGE	Specify the jsp file used when there is an error when logging into the application. Default value: /formLoginError.jsp	
Web Security Role	WEB_PRINCIPAL_N AME	Specify the name of the security role. Default value: cisusers	

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Web Principal Name	WEB_PRINCIPAL_NAME	Specify the name of a principal that is defined in the security realm. Default value: cisusers	
This is a development environment	WEB_ISDEVELOPMENT	If the value is "true", the web application may be used for application development, which will trigger certain generation processes. If the value is "false" the environment will be used as a runtime environment. When you choose "true" (development environment) the startup preload pages will be disabled, and the application security will be less strict. This value also controls the amount of logging information written to the application log files. Valid values: true, false Default value: false	
Preload All Pages on Startup	WEB_PRELOADALL	This controls if the pages should be pre-loaded during the startup of the application or not. Valid values: true, false Default value: false	
Maximum Age of a Cache Entry for Text	WEB_MAXAGE	Default value: 28800	
Maximum Age of a Cache Entry for Images	WEB_MAXAGEI	Default value: 28800	
JSP Recompile Interval (s)	WEB_wlpageCheckSeconds	Default value: 43200	

Advanced Web Application Configuration

```
53. OIM Configuration Settings
      SPML SOAP Trace Setting:                               false
      SPML IDM Schema Name:                               F1-IDMUser
      SPML OIM Name Space:        http://xmlns.oracle.com/OIM/provisioning
      SPML OIM Enclosing Element:                          sOAPElement
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
SPML SOAP Trace Setting	OIM_SPML_SOAP_DEBUG_SETTING	Name of Oracle Identity Manager library for debug. Default value: false Valid values: true, false	
SPML IDM Schema Name	OIM_SPML_UBER_SCHEMA_NAME	Name of Oracle Identity Manager library for schema. Defautlt value: F1-IDMUser	
SPML OIM Name Space	OIM_SPML_NAME_SPACE	Default Namespace for Oracle Identity Manager integration. Default value: http://xmlns.oracle.com/ OIM/provisioning	
SPML OIM Enclosing Element	OIM_SPML_SOAP_ELEMENT	Default top level SOAP Element name for Oracle Identity Manager integration. Default value: sOAPElement	

Keystore Options

```
54. Keystore options
(if keystore options are modified, you must run initialSetup.sh|cmd -k
in order to recreate the keystore)
        Store Type:                         JCEKS
        Alias:                              ouaf.system
        Alias Key Algorithm:                AES
        Alias Key Size:                     128
        HMAC Alias:                         ouaf.system.hmac
        Padding:                            PKCS5Padding
        Mode:                               CBC
```

Menu Option	Name Used in Documentation	Usage	Customer Install Value
Store Type	KS_STORETYPE	The keystore type. By default this is set to JCEKS.	
Alias	KS_ALIAS	The alias used to encrypt/decrypt passwords by the Oracle Utilities Application Framework to access the keystore. By default this is set to ouaf.system.	
Alias Key Algorithm	KS_ALIAS_KEYALG	The algorithm to be used by the KS_ALIAS entry in keystore to encrypt the passwords. By default this is set to AES.	
Alias Key Size	KS_ALIAS_KEYSIZE	The strength of the keystore for the KS_ALIAS entry. By default this is set to 128.	
HMAC Alias	KS_HMAC_ALIAS	The HMAC alias used by the Encryption Feature Type of the Oracle Utilities Application Framework. By default this is set to ouaf.system.hmac.	
Padding	KS_PADDING	The key padding algorithm used for keystore. By default this is set to PKCS5Padding.	
Mode	KS_STOREPASS_FILE	The keystore Password file.	

Chapter 6

Installing the Database

Please review Chapter 1 of this guide and then follow the steps for installing the database as described in the *Oracle Utilities Customer Care and Billing Database Administrator's Guide.*

Chapter 7

Installing Application Server Prerequisite Software

This chapter describes the software that needs to be installed for each of the supported operating system and application server combinations. The sections for this chapter are:

- AIX 7.1 Application Server
- Oracle Linux 5.4, 5.8, or 6.x (Based on Red Hat Linux 5.4, 5.8, or 6.x) Application Server
- Solaris 10 or Solaris 11 Application Server
- Windows 2008/2012 Application Server
- HP-UX 11.31 Application Server

AIX 7.1 Application Server

This section describes the software requirements for operating the application using the AIX application server.

Supported Application Servers

Operating System	Chipsets	Application Server
AIX 7.1 (64-bit) TL1	POWER 64-bit	Oracle WebLogic 11gR1 (10.3.6) 64-bit version WebSphere 8.5.5 64-bit version

Web/Application Server Tier

AIX 7.1 TL1 Operating System Running on Power5 and Power6 Architecture

UNIX Administrator Userid

The following user groups and accounts have to be created to install and administer the application:

Description	Default Value	Customer Defined Value
CCB Administrator UserID	cissys	
CCB User Group	cisusr	

> **Note:** It is recommended that you change the default values for security reasons.

Throughout this document the administrator user id is often referred to as the "cissys" user id. You should substitute that with the customer defined user id when not using the default value. After the initial install, the software should always be managed using that user id.

By default, the cissys userid is the only one given access to the installed files.

1. Create a group called cisusr (user group).

2. Create a user called cissys. Primary group cisusr. Set the primary shell for the cissys user to Korn Shell.

The shell scripts use the ">" to overwrite shell functionality. Your operating system may be configured to not allow this functionality by default in the users shell.

To avoid file access permission problems when executing scripts, consider placing the following command into cissys profile script:

```
set +o noclobber
```

Security Configuration

Various options exists to secure a system. In this application all files will be created with the minimum permissions required to ensure that group-readable, group-writable and group-executable files will have the correct user groups and to restrict the permissions available to legitimate users. In this way, a low privileged end user cannot directly edit configuration files and thereby bypass application security controls.

The following users and group categories must be defined to implement this security. For demonstration purposes the following users and groups will be used. These users must be created

according to industry standards (including password policies). All users should be created with a default umask of 022 to ensure files created during normal operation have the correct permissions.

Please replace these users and groups for your installation defaults:

User	Group	Description
cissys	cisusr	This user will be used to install the application and to apply patches. This user will own all the application files. The same care should be taken with this user ID as if it is 'root'. This user will be able to add, delete and modify and files within the application.
cisadm	cisusr	Administrative and Operation functions will be available to this user. This user will be able to stop and start the application and batch processes, but will not have access to modify any file other than generated log files
cisoper	-------	Low level operator. This user will only be able to read logs files and collect information for debugging and investigative purposes. Care should be taken in production to disable debugging as debugging information could contain potential sensitive data which this user should not have privy to.

Note: The Oracle Client and WebLogic should be installed as the user who will stop and start the application. For example, if you plan to run the application as the install user these components must belong to cissys.

IBM XL C/C++ Compiler 10.1

Micro Focus COBOL requires that this be installed as a prerequisite to compiling any COBOL code.

If you are going to compile your own COBOL objects then this C compiler should be installed. This C compiler is required for COBOL Compiles only. It needs to be installed on those machines that have both Micro Focus Server Express and will have the COBOL compiles performed on them.

This product is available from IBM.

Oracle 11.2.0.1/12.1.0.1.0 Client

Install the Oracle Client as described in the Oracle Client installation documentation. Use the cissys account to install the Oracle Client. If another user installs the Oracle Client, make sure the cissys user ID has the proper execute permissions.

For the cissys user ID, ensure that the environment variable ORACLE_CLIENT_HOME is set up, and that ORACLE_CLIENT_HOME/perl/bin is the first Perl listed in the cissys account's PATH variable.

Micro Focus Server Express 5.1 WrapPack 7 or WrapPack 8

Server Express is only required for environment where COBOL code will be compiled.

See the "Micro Focus" section in the Quick Install Guide for more information on the installation and licensing of this product.

After installing Server Express, make sure that cissys userid shell has the COBDIR and CUSTCOBDIR environment variables set to point to the base location where Server Express has been installed.

Micro Focus Server 5.1 WrapPack 7 or WrapPack 8

Micro Focus Server is required on the tier that will be hosting the application server where Oracle Utilities Customer Care and Billing application code will be deployed.

Micro Focus Server must be installed in the following directory:

/opt/SPLcobAS51

See the "Micro Focus" section in the Quick Install Guide for more information on the installation and licensing of this product.

IBM Java Software Development Kit version 6.0 Service Release SR10 64-bit

Installation of Java as a prerequisite is only needed if you are using Oracle WebLogic as a Web application server. If you use WebSphere, the Java runtime engine from the Web application server is used.

At the time of release, AIX Java packages could be obtained from:

http://www.ibm.com/developerworks/java/jdk/aix/service.html

The web server requires the 64-bit Java platform in order to function. The main prerequisite for the web server is the version of java mentioned above.

For the Administrator userid (cissys), ensure that the environment variable JAVA_HOME is set up, and that "java" can be found in cissys' PATH variable.

Hibernate 4.1.0

You must install Hibernate 4.1.0 before installing Oracle Utilities Customer Care and Billing.

To install Hibernate:

1. Create a Hibernate jar external depot:

   ```
   export HIBERNATE_JAR_DIR=<Hibernate 3rd party jars depot>
   ```
2. Download the hibernate-release-4.1.0.Final.zip file from

   ```
   http://sourceforge.net/projects/hibernate/files/hibernate4/
   ```

   Click the "4.1.0.Final" link to download the zip file.

3. Extract the contents of the archive file:

   ```
   jar xvf hibernate-release-4.1.0.Final.zip
   ```

   > **Note:** You must have Java JDK installed on the machine to use the jar command. Be sure to install the JDK that is supported for your platform.

4. Copy the jar files to your Hibernate jar directory ($HIBERNATE_JAR_DIR) using the following commands:

   ```
   cp hibernate-release-4.1.0.Final/lib/optional/
      ehcache/ehcache-core-2.4.3.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/optional/
      ehcache/hibernate-ehcache-4.1.0.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-commons-annotations-4.0.1.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-core-4.1.0.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-jpa-2.0-api-1.0.1.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      javassist-3.15.0-GA.jar $HIBERNATE_JAR_DIR
   ```

```
cp hibernate-release-4.1.0.Final/lib/required/
   jboss-logging-3.1.0.CR2.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/
  jboss-transaction-api_1.1_spec-1.0.0.Final.jar $HIBERNATE_JAR_DIR
```

Oracle WebLogic Server 11gR1 (10.3.6) 64-bit

Oracle WebLogic software can be downloaded from the Oracle web site. This application server will run as a 64-bit application.

- Download and install 64-bit Java (as documented above) before installing WebLogic.

- Download and install WebLogic Server 11gR1 (10.3.6).

IBM WebSphere Application Server 8.5 64-bit

WebSphere must be purchased and downloaded from IBM. It must be installed and configured prior to the MDM installation. This Web application server will run as a 64-bit application.

A single WebSphere server represents a single Oracle Utilities Customer Care and Billing environment. You can install multiple environments on a single WebSphere Installation by creating additional WebSphere servers. Refer to Chapter 7: Configuring WebSphere Application Server for the configuration steps.

Oracle Linux 5.4, 5.8, or 6.x (Based on Red Hat Linux 5.4, 5.8, or 6.x) Application Server

This section describes the software requirements for operating the application using the Oracle Enterprise Linux or Red Hat Linux application server.

Supported Application Servers

Operating System	Chipsets	Application Server
Oracle Linux 5.4, 5.8, 6.x (64-bit) (based on Red Hat Enterprise Linux 5.4, 5.8, or 6.x (64-bit))	x86_64	Oracle WebLogic 11gR1 (10.3.6) 64-bit version

Web/Application Server Tier

Oracle Enterprise Linux 5.4, 5.8, or 6.x, (Based on Red Hat Enterprise Linux 5.4, 5.8, or 6.x) Operating System Running on x86_64 64-bit Architecture

UNIX Administrator Userid

The following user groups and accounts have to be created to install and administer the application:

Description	Default Value	Customer Defined Value
CCB Administrator UserID	cissys	
CCB User Group	cisusr	

Note: It is recommended that you change the default values for security reasons.

Throughout this document the administrator user id is often referred to as the "cissys" user id. You should substitute that with the customer defined user id when not using the default value. After the initial install, the software should always be managed using that user id.

By default, the cissys userid is the only one given access to the files installed.

1. Create a group called cisusr (user group)

2. Create a user called cissys. Primary group cisusr. Set the primary shell for the cissys user to Korn Shell.

The shell scripts use the ">" to overwrite shell functionality. Your operating system may be configured to not allow this functionality by default in the users shell.

To avoid file access permission problems when executing scripts, consider placing the following command into cissys profile script:

```
set +o noclobber
```

Security Configuration

Various options exists to secure a system. In this application all files will be created with the minimum permissions required to ensure that group-readable, group-writable and group-executable files will have the correct user groups and to restrict the permissions available to legitimate users. In this way, a low privileged end user cannot directly edit configuration files and thereby bypass application security controls.

The following users and group categories must be defined to implement this security. For demonstration purposes the following users and groups will be used. These users must be created according to industry standards (including password policies). All users should be created with a default umask of 022 to ensure files created during normal operation have the correct permissions.

Please replace these users and groups for your installation defaults:

User	Group	Description
cissys	cisusr	This user will be used to install the application and to apply patches. This user will own all the application files. The same care should be taken with this user ID as if it is 'root'. This user will be able to add, delete and modify and files within the application.
cisadm	cisusr	Administrative and Operation functions will be available to this user. This user will be able to stop and start the application and batch processes, but will not have access to modify any file other than generated log files
cisoper	-------	Low level operator. This user will only be able to read logs files and collect information for debugging and investigative purposes. Care should be taken in production to disable debugging as debugging information could contain potential sensitive data which this user should not have privy to.

Note: The Oracle Client and WebLogic should be installed as the user who will stop and start the application. For example, if you plan to run the application as the install user these components must belong to cissys.

Oracle 11.2.0.1/12.1.0.1.0 Client

Install the Oracle Client as described in the Oracle Client installation documentation. Use the cissys account to install the Oracle Client. If another user installs the Oracle Client, make sure the cissys user ID has the proper execute permissions.

For the cissys user ID, ensure that the environment variable ORACLE_CLIENT_HOME is set up, and that ORACLE_CLIENT_HOME/perl/bin is the first Perl listed in the cissys account's PATH variable.

Micro Focus Server Express 5.1 WrapPack 7 or WrapPack 8

Server Express is only required for environments where COBOL code will be compiled.

See the "Micro Focus" section in the Quick Install Guide for more information on the installation and licensing of this product.

After installing Server Express, make sure that cissys user shell has the COBDIR and CUSTCOBDIR environment variables set to point to the base location where Server Express has been installed.

Micro Focus Server 5.1 WrapPack 7 or WrapPack 8

Micro Focus Server is required on the tier that will be hosting the application server where Oracle Utilities Customer Care and Billing application code will be deployed

Micro Focus Server MUST be installed in the following directory /opt/SPLcobAS51

See the "Micro Focus" section in the Quick Install Guide for more information on the installation and licensing of this product.

Oracle Java Development Kit Version 6.0 Update 20 or Later, 64-Bit

At time of release, Oracle Java packages could be obtained from:

http://www.oracle.com/technetwork/java/archive-139210.html

The Oracle WebLogic Server requires the 64-bit version. The main prerequisite for the web server is the version of java mentioned above.

For the user ID cissys, ensure that the environment variable JAVA_HOME is setup, and that java_home/bin and java_home/lib can be found in cissys' PATH variable.

Oracle JRockit 6.0 R28.2.7 Java Development Kit

JRockit is only required if you are using Oracle WebLogic as an application server and have Exalogic. This version of Java can be downloaded from the Oracle JRockit Downloads page on oracle.com.

When you set the parameters for Third Party Software Configuration during installation, ensure that the Web Java Home Directory points to the JRockit installation. You do not need to create an environment variable for JROCKIT_HOME.

Hibernate 4.1.0

You must install Hibernate 4.1.0 before installing Oracle Utilities Customer Care and Billing.

To install Hibernate:

1. Create a Hibernate jar external depot:

   ```
   export HIBERNATE_JAR_DIR=<Hibernate 3rd party jars depot>
   ```
2. Download the hibernate-release-4.1.0.Final.zip file from

   ```
   http://sourceforge.net/projects/hibernate/files/hibernate4/
   ```

   Click the "4.1.0.Final" link to download the zip file.

3. Extract the contents of the archive file:

   ```
   jar xvf hibernate-release-4.1.0.Final.zip
   ```

   > **Note:** You must have Java JDK installed on the machine to use the jar command. Be sure to install the JDK that is supported for your platform.

4. Copy the jar files to your Hibernate jar directory ($HIBERNATE_JAR_DIR) using the following commands:

   ```
   cp hibernate-release-4.1.0.Final/lib/optional/
      ehcache/ehcache-core-2.4.3.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/optional/
      ehcache/hibernate-ehcache-4.1.0.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-commons-annotations-4.0.1.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-core-4.1.0.Final.jar $HIBERNATE_JAR_DIR
   ```

```
        cp hibernate-release-4.1.0.Final/lib/required/
           hibernate-jpa-2.0-api-1.0.1.Final.jar $HIBERNATE_JAR_DIR
        cp hibernate-release-4.1.0.Final/lib/required/
           javassist-3.15.0-GA.jar $HIBERNATE_JAR_DIR
        cp hibernate-release-4.1.0.Final/lib/required/
           jboss-logging-3.1.0.CR2.jar $HIBERNATE_JAR_DIR
cp hibernate-release-4.1.0.Final/lib/required/
  jboss-transaction-api_1.1_spec-1.0.0.Final.jar $HIBERNATE_JAR_DIR
```

Oracle WebLogic Server 11gR1 (10.3.6) 64-bit

Oracle WebLogic software can be downloaded from the Oracle web site. This application server will run as a 64-bit application.

- Download and install 64-bit Java (as documented above) before installing WebLogic.

- Download and install WebLogic Server 11gR1 (10.3.6).

Solaris 10 or Solaris 11 Application Server

This section describes the software requirements for operating the application using the Sun Solaris 10 or Solaris 11 application server.

Supported Application Servers

Operating System	Chipsets	Application Server
Solaris 10 or Solaris 11 (64-bit)	SPARC	Oracle WebLogic 11gR1 (10.3.6) 64-bit version

Web/Application Server Tier

Solaris 10 or Solaris 11 Operating System Running on SPARC-based 64-bit Architecture

UNIX Administrator Userid

The following user groups and accounts have to be created to install and administer the application:

Description	Default Value	Customer Defined Value
CCB Administrator UserID	cissys	
CCB User Group	cisusr	

Note: It is recommended that you change the default values for security reasons.

Throughout this document the administrator user id is often referred to as the "cissys" user id. You should substitute that with the customer defined user id when not using the default value. After the initial install, the software should always be managed using that user id.

By default, the cissys userid is the only one given access to the files installed.

1. Create a group called cisusr (user group)

2. Create a user called cissys. Primary group cisusr. Set the primary shell for the cissys user to Korn Shell.

The shell scripts use the ">" to overwrite shell functionality. Your operating system may be configured to not allow this functionality by default in the users shell.

To avoid file access permission problems when executing scripts, consider placing the following command into cissys profile script:

```
set +o noclobber
```

Security Configuration

Various options exists to secure a system. In this application all files will be created with the minimum permissions required to ensure that group-readable, group-writable and group-executable files will have the correct user groups and to restrict the permissions available to legitimate users. In this way, a low privileged end user cannot directly edit configuration files and thereby bypass application security controls.

The following users and group categories must be defined to implement this security. For demonstration purposes the following users and groups will be used. These users must be created

according to industry standards (including password policies). All users should be created with a default umask of 022 to ensure files created during normal operation have the correct permissions.

Please replace these users and groups for your installation defaults:

User	Group	Description
cissys	cisusr	This user will be used to install the application and to apply patches. This user will own all the application files. The same care should be taken with this user ID as if it is 'root'. This user will be able to add, delete and modify and files within the application.
cisadm	cisusr	Administrative and Operation functions will be available to this user. This user will be able to stop and start the application and batch processes, but will not have access to modify any file other than generated log files
cisoper	-------	Low level operator. This user will only be able to read logs files and collect information for debugging and investigative purposes. Care should be taken in production to disable debugging as debugging information could contain potential sensitive data which this user should not have privy to.

Note: The Oracle Client and WebLogic should be installed as the user who will stop and start the application. For example, if you plan to run the application as the install user these components must belong to cissys.

Oracle 11.2.0.1/12.1.0.1.0 Client

Install the Oracle Client as described in the Oracle Client installation documentation. Use the cissys account to install the Oracle Client. If another user installs the Oracle Client, make sure the cissys user ID has the proper execute permissions.

For the cissys user ID, ensure that the environment variable ORACLE_CLIENT_HOME is set up, and that ORACLE_CLIENT_HOME/perl/bin is the first Perl listed in the cissys account's PATH variable.

Micro Focus Server Express 5.1 WrapPack 7 or WrapPack 8

Server Express is only required for environment where COBOL code will be compiled.

See the "Micro Focus" section in the Quick Install Guide for more information on the installation and licensing of this product.

After installing Server Express, make sure that cissys userid shell has the COBDIR and CUSTCOBDIR environment variables set to point to the base location where Server Express has been installed.

Micro Focus Server 5.1 WrapPack 7 or WrapPack 8

Micro Focus Server is required on the tier that will be hosting the application server where Oracle Utilities Customer Care and Billing application code will be deployed.

Micro Focus Server must be installed in the following directory:

/opt/SPLcobAS51

See the "Micro Focus" section in the Quick Install Guide for more information on the installation and licensing of this product.

Oracle Java Development Kit version 6.0 Update 20 or Later, 64-Bit

This software is only required for Oracle WebLogic installations.

At the time of release, the Oracle Java packages used in the test cycle were downloaded from:

http://www.oracle.com/technetwork/java/archive-139210.html

The Oracle WebLogic Server requires the 64-bit version. The main prerequisite for the web server is the version of java mentioned above.

For the user ID cissys, ensure that the environment variable JAVA_HOME is setup, and that java_home/bin and java_home/lib can be found in cissys' PATH variable.

Hibernate 4.1.0

You must install Hibernate 4.1.0 before installing Oracle Utilities Customer Care and Billing.

To install Hibernate:

1. Create a Hibernate jar external depot:

   ```
    export HIBERNATE_JAR_DIR=<Hibernate 3rd party jars depot>
   ```
2. Download the hibernate-release-4.1.0.Final.zip file from

   ```
   http://sourceforge.net/projects/hibernate/files/hibernate4/
   ```

   Click the "4.1.0.Final" link to download the zip file.

3. Extract the contents of the archive file:

   ```
   jar xvf hibernate-release-4.1.0.Final.zip
   ```

   > **Note:** You must have Java JDK installed on the machine to use the jar command. Be sure to install the JDK that is supported for your platform.

4. Copy the jar files to your Hibernate jar directory ($HIBERNATE_JAR_DIR) using the following commands:

   ```
   cp hibernate-release-4.1.0.Final/lib/optional/
      ehcache/ehcache-core-2.4.3.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/optional/
      ehcache/hibernate-ehcache-4.1.0.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-commons-annotations-4.0.1.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-core-4.1.0.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-jpa-2.0-api-1.0.1.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      javassist-3.15.0-GA.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      jboss-logging-3.1.0.CR2.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
     jboss-transaction-api_1.1_spec-1.0.0.Final.jar $HIBERNATE_JAR_DIR
   ```

Oracle WebLogic Server 11gR1 (10.3.6) 64-bit

Oracle WebLogic software can be downloaded from the Oracle web site. This application server will run as a 64-bit application.

• Download and install 64-bit Java (as documented above) before installing WebLogic.

• Download and install WebLogic Server 11gR1 (10.3.6).

Windows 2008/2012 Application Server

This section describes the software requirements for operating the application using the Windows application server.

Supported Application Servers

Operating System	Chipsets	Application Server
Windows Server 2008 R2 (64-bit) Window Server 2012	x86_64	Oracle WebLogic 11gR1 (10.3.6) 64-bit version

Web/Application Server Tier

Oracle Client 11.2.0.2/12.1.0.1.0 — Runtime Option

Install the Oracle Client as described in the Oracle Client installation documentation. Use the cissys account to install the Oracle Client. If another user installs the Oracle Client, make sure the cissys user ID has the proper execute permissions.

For the cissys user ID, ensure that the environment variable ORACLE_CLIENT_HOME is set up, and that ORACLE_CLIENT_HOME/perl/bin is the first Perl listed in the cissys account's PATH variable.

Micro Focus Net Express 5.1 with WrapPack 7 or WrapPack 8

This is required only for environments where COBOL code will be compiled.

See the "Micro Focus" section in the Quick Install Guide for more information on the installation and licensing of this product. After installing Net Express, ensure that the COBDIR and CUSTCOBDIR environment variables are set to point to the directory where Net Express is installed.

Micro Focus Server 5.1 with WrapPack 7 or WrapPack 8

Required for Oracle Utilities Customer Care and Billing runtime environments.

See the "Micro Focus" section in the Quick Install Guide for more information on the installation and licensing of this product. Also note that WrapPack 7 or WrapPack 8 is installed after Micro Focus Server 5.1 WrapPack 6 is installed.

After installing Micro Focus Server, ensure that the COBDIR and CUSTCOBDIR environment variables are set to point to the directory where the software is installed.

Oracle Java Development Kit version 6.0 Update 20 or Later, 64-Bit

This software is only required for Oracle WebLogic installations.

At the time of release, the Oracle Java packages used in the test cycle were downloaded from:

http://www.oracle.com/technetwork/java/archive-139210.html

The Oracle WebLogic Server requires the 64-bit version. The main prerequisite for the web server is the version of java mentioned above.

For the user ID cissys, ensure that the environment variable JAVA_HOME is setup, and that java_home/bin and java_home/lib can be found in cissys' PATH variable.

Hibernate 4.1.0

You must install Hibernate 4.1.0 before installing Oracle Utilities Customer Care and Billing.

To install Hibernate:

1. Create a Hibernate jar external depot:

   ```
   export HIBERNATE_JAR_DIR=<Hibernate 3rd party jars depot>
   ```

2. Download the hibernate-release-4.1.0.Final.zip file from

   ```
   http://sourceforge.net/projects/hibernate/files/hibernate4/
   ```

   Click the "4.1.0.Final" link to download the zip file.

3. Extract the contents of the archive file:

   ```
   jar xvf hibernate-release-4.1.0.Final.zip
   ```

   > **Note:** You must have Java JDK installed on the machine to use the jar command. Be sure to install the JDK that is supported for your platform.

4. Copy the jar files to your Hibernate jar directory ($HIBERNATE_JAR_DIR) using the following commands:

   ```
   cp hibernate-release-4.1.0.Final/lib/optional/
      ehcache/ehcache-core-2.4.3.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/optional/
      ehcache/hibernate-ehcache-4.1.0.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-commons-annotations-4.0.1.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-core-4.1.0.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      hibernate-jpa-2.0-api-1.0.1.Final.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      javassist-3.15.0-GA.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
      jboss-logging-3.1.0.CR2.jar $HIBERNATE_JAR_DIR
   cp hibernate-release-4.1.0.Final/lib/required/
     jboss-transaction-api_1.1_spec-1.0.0.Final.jar $HIBERNATE_JAR_DIR
   ```

Oracle WebLogic Server 11gR1 (10.3.6) 64-bit

Oracle WebLogic software can be downloaded from the Oracle web site. This application server will run as a 64-bit application.

- Download and install 64-bit Java (as documented above) before installing WebLogic.

- Download and install WebLogic Server 11gR1 (10.3.6).

HP-UX 11.31 Application Server

This section describes the software requirements for operating the application using the HP-UX application server.

Supported Application Servers

Operating System	Chipsets	Application Server
HP-UX ia (64-bit)	ia64	Oracle WebLogic 11gR1 (10.3.6) 64-bit version

Web/Application Server Tier

HP-UX Operating System Running on Itanium 64-bit Architecture

UNIX Administrator User ID

The following user groups and accounts have to be created to install and administer the application:

Description	Default Value	Customer Defined Value
CCB Administrator UserID	cissys	
CCB User Group	cisusr	

Note: It is recommended that you change the default values for security reasons.

Throughout this document the administrator user id is often referred to as the "cissys" user id. You should substitute that with the customer defined user id when not using the default value. After the initial install, the software should always be managed using that user id.

By default, the cissys userid is the only one given access to the files installed.

1. Create a group called cisusr (user group)

2. Create a user called cissys. Primary group cisusr. Set the primary shell for the cissys user to Korn Shell.

The shell scripts use the ">" to overwrite shell functionality. Your operating system may be configured to not allow this functionality by default in the users shell.

To avoid file access permission problems when executing scripts, consider placing the following command into cissys profile script:

```
set +o noclobber
```

Security Configuration

Various options exists to secure a system. In this application all files will be created with the minimum permissions required to ensure that group-readable, group-writable and group-executable files will have the correct user groups and to restrict the permissions available to legitimate users. In this way, a low privileged end user cannot directly edit configuration files and thereby bypass application security controls.

The following users and group categories must be defined to implement this security. For demonstration purposes the following users and groups will be used. These users must be created

according to industry standards (including password policies). All users should be created with a default umask of 022 to ensure files created during normal operation have the correct permissions.

Please replace these users and groups for your installation defaults:

User	Group	Description
cissys	cisusr	This user will be used to install the application and to apply patches. This user will own all the application files. The same care should be taken with this user ID as if it is 'root'. This user will be able to add, delete and modify and files within the application.
cisadm	cisusr	Administrative and Operation functions will be available to this user. This user will be able to stop and start the application and batch processes, but will not have access to modify any file other than generated log files
cisoper	-------	Low level operator. This user will only be able to read logs files and collect information for debugging and investigative purposes. Care should be taken in production to disable debugging as debugging information could contain potential sensitive data which this user should not have privy to.

Note: The Oracle Client and WebLogic should be installed as the user who will stop and start the application. For example, if you plan to run the application as the install user these components must belong to cissys.

Oracle 11.2.0.1/12.1.0.1.0 Client

Install the Oracle Client as described in the Oracle Client installation documentation. Use the cissys account to install the Oracle Client. If another user installs the Oracle Client, make sure the cissys user ID has the proper execute permissions.

For the cissys user ID, ensure that the environment variable ORACLE_CLIENT_HOME is set up, and that ORACLE_CLIENT_HOME/perl/bin is the first Perl listed in the cissys account's PATH variable.

Micro Focus Server Express 5.1 WrapPack 7 or WrapPack 8

Server Express is only required for environments where COBOL code will be compiled.

See the "Micro Focus" section in the Quick Install Guide for more information on the installation and licensing of this product.

After installing Server Express, make sure that cissys user shell has the COBDIR and CUSTCOBDIR environment variables set to point to the base location where Server Express has been installed.

Micro Focus Server 5.1 WrapPack 7 or WrapPack 8

Micro Focus Server is required on the tier that will be hosting the application server where Oracle Utilities Customer Care and Billing application code will be deployed

Micro Focus Server MUST be installed in the following directory /opt/SPLcobAS51

See the "Micro Focus" section in the Quick Install Guide for more information on the installation and licensing of this product.

Oracle Java Development Kit Version 6.0 Update 20 or Later, 64-Bit

This software is only required for Oracle WebLogic installations. At the time of release, the Java packages used in the test cycle were downloaded from the HP website.

The Oracle WebLogic Server requires the 64-bit version. The main prerequisite for the web server is the version of java mentioned above.

For the user ID cissys, ensure that the environment variable JAVA_HOME is setup, and that java_home/bin and java_home/lib can be found in cissys' PATH variable.

Hibernate 4.1.0

You must install Hibernate 4.1.0 before installing Oracle Utilities Customer Care and Billing.

To install Hibernate:

1. Create a Hibernate jar external depot:

    ```
    export HIBERNATE_JAR_DIR=<Hibernate 3rd party jars depot>
    ```
2. Download the hibernate-release-4.1.0.Final.zip file from

    ```
    http://sourceforge.net/projects/hibernate/files/hibernate4/
    ```

    Click the "4.1.0.Final" link to download the zip file.

3. Extract the contents of the archive file:

    ```
    jar xvf hibernate-release-4.1.0.Final.zip
    ```

    > **Note:** You must have Java JDK installed on the machine to use the jar command. Be sure to install the JDK that is supported for your platform.

4. Copy the jar files to your Hibernate jar directory ($HIBERNATE_JAR_DIR) using the following commands:

    ```
    cp hibernate-release-4.1.0.Final/lib/optional/
        ehcache/ehcache-core-2.4.3.jar $HIBERNATE_JAR_DIR
    cp hibernate-release-4.1.0.Final/lib/optional/
        ehcache/hibernate-ehcache-4.1.0.Final.jar $HIBERNATE_JAR_DIR
    cp hibernate-release-4.1.0.Final/lib/required/
        hibernate-commons-annotations-4.0.1.Final.jar $HIBERNATE_JAR_DIR
    cp hibernate-release-4.1.0.Final/lib/required/
        hibernate-core-4.1.0.Final.jar $HIBERNATE_JAR_DIR
    cp hibernate-release-4.1.0.Final/lib/required/
        hibernate-jpa-2.0-api-1.0.1.Final.jar $HIBERNATE_JAR_DIR
    cp hibernate-release-4.1.0.Final/lib/required/
        javassist-3.15.0-GA.jar $HIBERNATE_JAR_DIR
    cp hibernate-release-4.1.0.Final/lib/required/
        jboss-logging-3.1.0.CR2.jar $HIBERNATE_JAR_DIR
    cp hibernate-release-4.1.0.Final/lib/required/
      jboss-transaction-api_1.1_spec-1.0.0.Final.jar $HIBERNATE_JAR_DIR
    ```

Oracle WebLogic Server 11gR1 (10.3.6) 64-bit

Oracle WebLogic software can be downloaded from the Oracle web site. This application server will run as a 64-bit application.

*   Download and install 64-bit Java (as documented above) before installing WebLogic.

*   Download and install WebLogic Server 11gR1 (10.3.6).

Chapter 8

Configuring WebSphere Application Server

> **Note:** This section applies only to installations using WebSphere as an
> application server.

This section describes tasks that you should complete before you install the Oracle Utilities
Application Framework. It also describes configuration tasks you should complete after installing
Oracle Utilities Customer Care and Billing. It includes the following:

- Configuring WebSphere Basic
- Configuring WebSphere Network Deployment

Configuring WebSphere Basic

Preinstallation Tasks

This section describes tasks that you should complete to configure a WebSphere Basic application server before you install the Oracle Utilities Application Framework.

When working within the WebSphere console make sure to apply and save your changes to the Master Configuration when appropriate.

Setting of WebSphere Security

There are several security configuration options within WebSphere. In a production environment you must use the security implementation appropriate for your security requirements. During the QA cycle we used the User account repository of the Federated repository. The following procedures describe how to apply these security settings.

> **Note:** Refer to the IBM WebSphere Application Server documentation for more details.

1. Start the WebSphere Administrative Console and log in.

2. Go to **Security, Global security.**

   • Check **Enable administrative security.**

   • Check **Enable application security.**

   • Select **Federated repositories** from the Available realm definitions

3. Click **Apply.**

Setting WebSphere Application Groups

1. Start the WebSphere Administrative Console and log in.

2. Go to **Users and Groups - Manage Groups**.

   Create the group name of cisusers (default group).

3. Click **Create.**

Setting WebSphere Application Users

1. Start the WebSphere Administrative Console and log in.

2. Go to **Users and Groups - Manage Users.**

   • Create the user Id of SYSUSER (example user)

   • Add the Group Membership of cisusers (created in the previous step) to the user.

3. Click **Create.**

Setting WebSphere JNDI Users

1. Start the WebSphere Administrative Console and log in.

2. Go to **Users and Groups, Manage Users**.

   • Create the user id of JNDI (example user).

3. Click **Create.**

Setting WebSphere JNDI Users - CORBA Naming Service Users

1. Start the WebSphere Administrative Console and log in.

2. Go to **Environment, Naming, CORBA Naming Service Users**.

   • Add the user id of JNDI (example user).

- Highlight all of the Roles (Cos Naming Read, Cos Naming Write, Cos Naming Create, Cos Naming Delete)

3. Click **Apply.**

> **Note:** Prior to this step you will need to restart the server1 since when adding CORBA Naming Service Users, the User is not recognized.

4. Note the values for JNDI User and Password. The Oracle Utilities Application Framework will prompt you for this information during the installation.

Creation of Additional Servers in WebSphere - Sample Script

You must also provide the name of servers during OUAF installation. You can use the following sample script to create additional servers using the wsadmin.sh tool.

> **Note:** There are several other ways to accomplish this task.

1. Initialize a wsadmin.sh session:

```
<$WAS_HOME>/bin/wsadmin.sh -host localhost -port
 <SoapConnectorPort> -conntype SOAP -username
 <webSphereUserName> -password <webSphereUserPassword>
```

> **Note:** Substitute $WAS_HOME, webSphereUserName, SoapConnectorPort, webSphereUserPassword, with values that are appropriate for your installation:

For example:

```
/ouaf/IBM/WebSphere70/AppServer/bin/wsadmin.sh -host
localhost -port
8889 -conntype SOAP
```

2. Create the server instance:

```
<wsadmin> $AdminTask createApplicationServer
<nodeName> {-name <serverName>}
```

Setting General Server Properties

1. Connect to the WebSphere administrative console.

2. Select **Servers, Server Types, WebSphere application servers,** and then select **Application Servers.**

3. Select your server name.

4. Under the section General Properties.

   - Deselect **Parallel start**.

   - Deselect **Run in development mode.**

5. Click **OK.**

6. Click **Save** to commit the setting.

Enabling SOAP Communication with WebSphere

The OUAF configuration scripts communicate with WebSphere as a SOAP client by using Jython commands to perform environment maintenance (for example, stop, start, deploy, undeploy).

To enable SOAP communication with WebSphere:

1. In a text editor, open the following file:

   $WAS_HOME/profiles/<PROFILE_NAME>/properties/soap.client.props

   Edit the property lines as follows:

- com.ibm.SOAP.requestTimeout=0

- com.ibm.SOAP.loginUserid=< WebSphere_User_Id >

- com.ibm.SOAP.loginPassword=< WebSphere_Password >

  Note: Refer to IBM WebSphere Application Server documentation for more details.

1. If you want to encode the password in the soap.client.props file, then run the PropFilePasswordEncoder command from the $WAS_HOME/profiles/ <PROFILE_NAME>/bin directory.

   This command is specific to IBM WebSphere Application Server. It encodes passwords located in plain-text property files.

2. Save and close the file.

Creation of Additional Servers in WebSphere - Sample Script

You must also provide the name of servers during the installation. You can use the following sample script to create additional servers using the wsadmin.sh tool.

Note: There are several other ways to accomplish this task.

1. Initialize a wsadmin.sh session:

   <$WAS_HOME>/bin/wsadmin.sh -host localhost -port <SoapConnectorPort> -conntype SOAP -username <webSphereUserName> -password <webSphereUserPassword>

   Note: Substitute $WAS_HOME, webSphereUserName, SoapConnectorPort, webSphereUserPassword, with values that are appropriate for your installation:

   For example: /ouaf/IBM/WebSphere70/AppServer/bin/wsadmin.sh -host localhost -port 8889 -conntype SOAP

2. Create the server instance:

   wsadmin> $AdminTask createApplicationServer <nodeName> {-name <serverName>}

Obtaining the Bootstrap Port and WC_defaulthost

You must also provide these port numbers during OUAF installation. Obtain the bootstrap port number and the WC_defaulthost by using the WebSphere administrative console.

   Note: The WebSphere application server1 must be running to obtain the bootstrap port number and the WC_defaulthost port number.

To view the bootstrap port number and the WC_defaulthost:

1. Log on to the WebSphere administrative console.

2. Select **Servers, Server Types, WebSphere application servers, <server_name>** and then select **Ports** under **Communications.**

   The bootstrap port is displayed as BOOTSTRAP_ADDRESS.

   The WC_defaulthost is displayed as WC_defaulthost.

3. Note the values for WC_defaulthost and BOOTSTRAP_ADDRESS. The Oracle Utilities Application Framework will prompt you for this information during the installation.

Set Up a Virtual Host for the Server

1. Select **Environment, Virtual Host, default_host,** and then select **Host Alias.**

2. Click **New.**

   Enter the following:

- **Host Name:** *

- **Port:** WC_defaulthost Port Number

Obtaining the WebSphere Node Name

You must also provide the node name during the installation. Obtain the node name by using the WebSphere administrative console.

> **Note:** The WebSphere application server must be running to obtain the bootstrap port number.

To obtain the node name:

1. Connect to the WebSphere administrative console.

2. Select **Servers, Server Types, WebSphere application servers, <server_name>.**

   > **Note:** Take note of the value for the Node Name.

Installing Oracle Utilities Application Framework as a Non-Root User with IBM WebSphere Installed as Root

Installing Oracle Utilities Application Framework as a non-root user on a WebSphere application server running on AIX requires certain permissions. Prior to the installation, verify that the operating system user account installing the framework has write and execute permissions on the directories in which WebSphere will be installed.

Postinstallation Tasks

This sections describes tasks that you should complete after you have installed Oracle Utilities Customer Care and Billing on a WebSphere application server.

Setting Environment Entries.

1. Connect to the WebSphere administrative console.

2. Select **Servers, Server Types, WebSphere application servers.**

3. Select the server name.

4. Go to **Server Infrastructure,** and then click **Java and Process Management.**

5. Select **Process Definition.**

6. Go to Environment Entries.

7. Click **New** and add the following Environment Entries:

   Name: SPLENVIRON

   Value: <$SPLENVIRON>

   Note: Substitute $SPLENVIRON with appropriate values for your installation.

   Name: SPLEBASE

   Value: < $SPLEBASE >

   Note: Substitute $SPLEBASE with appropriate values for your installation.

   Name: LIBPATH

   Value: <$SPLEBASE >/runtime

   Note: Substitute $SPLEBASE with appropriate values for your installation.

Note: You will need to restart the server_name before you attempt to start the application on the server.

8. Click **OK.**

9. Click **Save** to commit the setting.

Setting JVM Memory and Arguments

For Oracle Utilities Application Framework, JVM memory settings must be changed for production environments and/or when processing large volume in a nonproduction environment.

Perform the following steps to set the JVM memory size. The WebSphere application server must be running to set the memory size.

To set the JVM memory size:

1. Connect to the WebSphere administrative console.

2. Select **Servers, Server Types, WebSphere application servers.**

3. Select the server name.

4. Go to **Server Infrastructure,** and then click **Java and Process Management.**

5. Select **Process Definition.**

6. Go to **Additional Properties,** and then click **Java Virtual Machine.**

7. Enter 1024 for **Minimum Heap Size.**

8. Enter 1024 for **Maximum Heap Size.**

9. Enter -Djava.security.auth.login.config=<$SPLEBASE>/splapp/config/java.login.config for Generic JVM arguments.

    Note: Substitute $SPLEBASE with appropriate values for your installation.

    You will need to restart the server_Name before you attempt to start the application on the server.

10. Click **OK.**

11. Click **Save** to commit the setting.

Setting Server Custom Properties.

The following custom properties have been need in the past to enable WebSphere Classloader to load the correct xalan.jar file.

To set the Custom Properties:

1. Connect to the WebSphere administrative console.

2. Select **Servers, Server Types, WebSphere application servers.**

3. Select the server name.

4. Go to **Server Infrastructure,** and then click **Java and Process Management.**

5. Select **Process Definition.**

6. Go to **Additional Properties,** and then click **Java Virtual Machine.**

7. Go to **Additional Properties,** and then click **Custom Properties.**

8. Click **New.**

    Enter the following information:

    •   **Name**: javax.xml.transform.TransformerFactory

    •   **Value:** org.apache.xalan.processor.TransformerFactoryImpl

9.   Click **OK.**

10. Click **Save** to commit the setting.

Setting the Web Container Custom Properties.

To set the Web Container Custom Properties:

1.   Connect to the WebSphere administrative console.

2.   Select **Servers, Server Types, WebSphere application servers.**

3.   Select the server name.

4.   Go to **Container Settings,** and then click **Web Container Settings.**

5.   Select **Web container.**

6.   Go to **Additional Properties,** and then click **Custom properties.**

7.   Click **New.**

      Enter the following information:

      •   **Name:** com.ibm.ws.webcontainer.invokefilterscompatibility

      •   **Value:** true

8.   Click **OK.**

9.   Click **Save** to commit the setting.

Starting and Stopping WebSphere Servers

To start WebSphere on AIX use the $WAS_HOME/profiles/<profile_name>/bin/startServer.sh script. For example, run:

```
$WAS_HOME/profiles/<profile_name>/bin/startServer.sh <server_name>
```

To stop WebSphere on AIX, use the $WAS_HOME/profiles/<profile_name>/bin/stopServer.sh script. For example, run:

```
$WAS_HOME/profiles/<profile_name>/bin/stopServer.sh <server_name
```

> **Note:** The Oracle Utilities Application Framework script **spl.sh** does not stop or start the IBM WebSphere servers. It only stops and starts the Oracle Utilities Application Framework-based applications.

Deployment Using Supplied Script

The application deployment script is initialSetup.sh.-d, located in $SPLEBASE/bin (this script deploys both the SPLService.ear and SPLWeb.ear)

> **Note:** Before running the script ensure you have initialized the environment by running splenviron.sh

Deployment via the Admin Console

Follow these steps to deploy the application using the Admin Console:

Deployment Overview

The application needs to be deployed in the following order:

1.   SPLService.ear

2.   SPLWeb.ear

> **Note:** The SPLService.ear must be successfully deployed before deploying SPLWeb.ear

Deploy SPLService.ear

1. Select the ear file to deploy.

   - Select **Applications, Install New Application.**

   - Select **Remote file system.**

   - Browse to the SPLService.ear or enter the full path to the file.

   - The ear files can be found under $SPLEBASE/splapp/applications.

   - Click **Next.**

2. Select **Option Fast Path - Prompt only when additional information is required.** Click **Next.**

3. On the Select installation options page ensure that **Deploy enterprise beans** is checked. Click **Next.**

4. Assign the module to the WebSphere server instance.

   When deploying an application from the console make sure you select the correct server and click **Apply.**

5. Review the summary page. Review the installation options.

6. Click **Finish**. The application will then deploy. The deployment process takes about 5 minutes.

7. Click **Save.** The save process can take more than 20 minutes.

Deploying SPLWeb.ear

1. Select the ear file to deploy.

   - Select **Applications, Install New Application.**

   - Select **Remote file system.**

   - Browse to the SPLWeb.ear or enter the full path to the file.

   - The ear files can be found under $SPLEBASE/splapp/applications.

   - Click **Next.**

2. Select **Option Fast Path - Prompt only when additional information is required.** Click **Next.**

3. Assign the module to the WebSphere server instance.

   When deploying an application from the console make sure you select the correct server and click Apply.

4. Review the summary page. Review the installation options.

5. Click **Finish** The application will then deploy. The deployment process takes about 5 minutes.

6. Click **Save.** The save process can take about more than 20 minutes.

Configure the Applications

You need to apply these steps to both the SPLWeb and SPLService applications unless specified.

1. Set the startup order of the applications (this applies only to SPLWeb):

   - Select the SPLWeb application from **Applications, Enterprise Applications.**

   - Select **Startup behavior.**

   - Change the startup order to 2.

   - Click **OK.**

- Click **OK** and Save directly to master configuration.

2. Set the class loading order (for both SPLService.ear and SPLWeb.ear): Select Class loading and update detection.

   - Set Polling interval to 0.

   - Under Class loader order select Classes loaded with application class loader first. Click **OK** and Save to master configuration.

3. Set the module starting weight:

   - **SPLService only:** Set the Starting weight to 1.

   - **SPLWeb only:** For each module (.war) set the Starting weight to 10000 and change the Class loader order to Classes loaded with application class loader first

4. Set EJB JNDI names (this applies only to SPLService). Select Enterprise Java Bean Properties and enter the following values:

   - **EJB module:** SPLServiceBean

   - JNDI name for all interfaces

   - **Target Resource JNDI Name:** [Web Context Root]/servicebean

   - **EJB module:** TUGBULiteServiceBean

   - JNDI name for all interfaces

   - **Target Resource JNDI Name:** [Web Context Root]/liteservicebean

5. Click **Ok.**

Configure Application Security

After using the supplied script to deploy the application to WebSphere you will need to configure each application's security before starting the application.

Using the WebSphere administration console select **Applications, Application Types, WebSphere enterprise applications, <Business Server Application Name>, <server name>** (for example, SPLService-server2)**, Security role to user/group mapping.**

For role cisusers:

- Check **Select** and the click **Map Users:**

- Search for SYSUSER and add to the Selected users list.

- Click **OK.**

   Note: Repeat the process for <Web Server Application Name>-<server name> (for example, SPLWeb-server2).

Restart the WebSphere Server

It is recommended to stop and then restart the WebSphere server.

If the application is deployed in server1 you can use the admin console to stop and start the server. If the application is deployed in another server you will need to use the scripts that are supplied with WebSphere (stopServer.sh, startServer.sh).

   Note: WebSphere admin console runs under server1.

Application URL

The Web link to the WebSphere application will be:

```
http://<hostname:<WC_default_port>/<context_root>/loginPage.jsp
```

For example, http://oracle.test:9081/ouaf/loginPage.jsp

Configuring WebSphere Network Deployment

Preinstallation Tasks

This section describes tasks that you should complete to configure a WebSphere ND application server before you install the Oracle Utilities Application Framework.

When working within the WebSphere Network Deployment (WebSphere ND) console make sure to apply and save your changes to the Master Configuration when appropriate.

Setting of WebSphere ND Security

There are several security configuration options within WebSphere ND. In a production environment you must use the security implementation appropriate for your security requirements. During the QA cycle we used the User account repository of the Federated repository. The following procedures describe how to apply these security settings.

> **Note:** Refer to IBM WebSphere ND Application Server documentation for more details.

1. Start the WebSphere ND DPMGR Administrative Console and log in.

2. Go to S**ecurity, Global security.**

   • Check **Enable administrative security.**

   • Check **Enable application security.**

   • Select **Federated repositories** from the Available realm definitions.

3. Click **Apply.**

Setting WebSphere ND Application Groups

1. Start the WebSphere ND Administrative Console and log in.

2. Go to **Users and Groups - Manage Groups.**

   Create the group name of cisusers (default group).

3. Click **Create.**

Setting WebSphere ND Application Users

1. Start the WebSphere ND Administrative Console and log in.

2. Go to **Users and Groups - Manage Users**.

   • Create the user Id of SYSUSER (example user).

   • Add the Group Membership of cisusers (created in the previous step) to the user.

3. Click **Create.**

Setting WebSphere ND JNDI Users

1. Start the WebSphere Administrative Console and log in.

2. Go to **Users and Groups - Manage Users.**

   Create the user id of JNDI (example user).

3. Click **Create.**

Setting WebSphere ND JNDI Users - CORBA Naming Service Users

1. Start the WebSphere ND Administrative Console and log in.

2. Go to **Environment, Naming - CORBA Naming Service Users.**

   • Add the user id of JNDI (example user).

- Highlight all of the Roles (Cos Naming Read, Cos Naming Write, Cos Naming Create, Cos Naming Delete).

3. Click **Apply.**

>   **Note:** the values for JNDI User and Password. The Oracle Utilities Application Framework will prompt you for this information during the installation.

Setting General Server Properties.

1. Connect to the WebSphere ND DPMGR administrative console

2. Select **Servers, Server Types, WebSphere application servers.**

3. Select the your server name.

4. Under the section General Properties.

   - Deselect **Parallel start.**

   - Deselect **Run in development mode.**

5. Click **OK.**

6. Click **Save** to commit the setting.

Enabling SOAP Communication with WebSphere ND

The OUAF configuration scripts communicates with WebSphere ND Deployment Manager as a SOAP client by using Jython commands to perform environment maintenance (e.g. stop, start, deploy, undeploy).

To enable SOAP communication with WebSphere ND:

1. In a text editor, open the following file:

   ```
   $WAS_HOME/profiles/<PROFILE_NAME>/properties/soap.client.props
   ```

   Edit the property lines as follows:

   - com.ibm.SOAP.requestTimeout=0

   - com.ibm.SOAP.loginUserid=< WebSphere_User_Id >

   - com.ibm.SOAP.loginPassword=< WebSphere_Password >

   Note: Refer to IBM WebSphere Application Server documentation for more details,

2. If you want to encode the password in the soap.client.props file, then run the PropFilePasswordEncoder command from the $WAS_HOME/profiles/<PROFILE_NAME>/bin directory.

   This command is specific to IBM WebSphere ND Application Server, and it encodes passwords located in plain-text property files.

3. Save and close the file.

Creation of Additional Servers in WebSphere ND

You must also provide the server names during the installation.

>   **Note:** There are several other ways to accomplish this task.

1. Select **Servers, New Servers.**

   This will lead you through a list of steps for creating a new server.

2. Select server type from the drop down list: WebSphere application server. Click **N.ext**

3. Select node from the drop down list that has been created for to host the WebSphere server.

Enter the Server name

> **Note:** Both the Node Name and Server Name will be needed for during the OUAF installation process.

4. Select a server template of default

   Click Next

5. Check the box to Generate Unique Ports. Click Next

6. Confirm new server. Click Finished

Obtaining the Bootstrap Port and WC_defaulthost

You must also provide these port numbers during OUAF installation. Obtain the bootstrap port number and the WC_defaulthost by using the WebSphere ND administrative console.

> **Note:** The WebSphere ND Deployment Manager server must be running to obtain the bootstrap port number and the WC_defaulthost port number

To view the bootstrap port number and the WC_defaulthost:

1. Log on to the WebSphere ND administrative console.

2. Select Servers, Application Servers, <server_name>, and then select **Ports** under Communication.

   The bootstrap port is displayed as BOOTSTRAP_ADDRESS. The WC_defaulthost is displayed as WC_defaulthost.

3. Note the values for WC_defaulthost and BOOTSTRAP_ADDRESS. The Oracle Utilities Application Framework will prompt you for this information during the installation.

Set up a New Virtual Host for your Server

1. Select **Environment, Virtual Host, default_host,** and then select **Host Alias.**

2. Click **New.**

3. Enter the following:

   • Host Name:

   • Port: WC_defaulthost Port Number

Obtaining the WebSphere ND Node Name

You must also provide the node name during OUAF installation. Obtain the node name by using the WebSphere ND administrative console.

> **Note:** The IBM WebSphere ND application server must be running to obtain the bootstrap port number.

To obtain the node name:

1. Connect to the WebSphere ND administrative console

2. In the left pane, click **Servers.**

3. Click **Application Servers** under Servers.

4. Click the server instance (server_name, default) on the right section.

5. Click the **Runtime** tab.

   > **Note:** The value for the Node Name.

   > **Note:** If the value of State is not started, then restart the server instance.

Installing Oracle Utilities Application Framework as a Non-Root User with IBM WebSphere Installed as Root

Installing Oracle Utilities Application Framework as a non-root user on a IBM WebSphere ND application server running on AIX certain permissions.

Prior to attempting to install Oracle Utilities Application Framework as a non-root user on a IBM WebSphere ND application server running on AIX, verify that the operating system user account installing Oracle Utilities Application Framework has write and execute permissions on the directories in which IBM WebSphere ND will be installed.

Postinstallation Tasks

This sections describes tasks that you should complete after you have installed the Oracle Utilities Application Framework and Oracle Utilities Customer Care and Billing on a WebSphere application server.

Setting Environment Entries.

1. Connect to the IBM WebSphere ND administrative console.

2. Select **Servers** and then select **Application Servers.**

3. Select the server name.

4. Go to **Server Infrastructure,** and then click **Java and Process Management.**

5. Select **Process Definition.**

6. Go to **Environment Entries.**

7. Click **New** and add the following Environment Entries:

    Add the following entries:

    > **Name:** SPLENVIRON
    >
    > **Value:** <$SPLENVIRON>
    >
    > **Note:** Substitute $SPLENVIRON with appropriate values for your installation.

    > **Name:** SPLEBASE
    >
    > **Value:** < $SPLEBASE >
    >
    > **Note:** Substitute $SPLEBASE with appropriate values for your installation.

    > **Name:** LIBPATH
    >
    > **Value:** <$SPLEBASE >/runtime
    >
    > **Note:** Substitute $SPLEBASE with appropriate values for your installation.

    > **Note:** You will need to restart the server_name before you attempt to start the application on the server.

8. Click **OK.**

9. Click **Save** to commit the setting.

Setting JVM Memory and Arguments

For Oracle Utilities Application Framework, JVM memory settings must be changed for production environments and/or when processing large volume in a nonproduction environment.

Perform the following steps to set the JVM memory size. The IBM WebSphere ND application server must be running to set the memory size.

To set the JVM memory size:

1. Connect to the IBM WebSphere ND administrative console.

2. Select **Servers,** and then select **Application Servers.**

3. Select the server name.

4. Go to **Server Infrastructure,** and then click **Java and Process Management.**

5. Select **Process Definition.**

6. Go to **Additional Properties,** and then click **Java Virtual Machine.**

7. Enter 1024 for **Minimum Heap Size.**

8. Enter 1024 for **Maximum Heap Size.**

9. Enter -Djava.security.auth.login.config=<$SPLEBASE>/splapp/config/java.login.config for Generic JVM arguments.

> **Note:** Substitute $SPLEBASE with appropriate values for your installation.

You will need to restart the server_Name before you attempt to start the application on the server.

10. Click **OK.**

11. Click **Save** to commit the setting.

Setting Server Custom Properties.

The following custom properties have been need in the past to enable WebSphere ND Classloader to load the correct xalan.jar file.

To set the Custom Properties:

1. Connect to the WebSphere ND administrative console.

2. Select **Servers,** and then select Application Servers.

3. Select the server name.

4. Go to **Server Infrastructure,** and then click **Java and Process Management.**

5. Select **Process Definition.**

6. Go to **Additional Properties,** and then click **Java Virtual Machine.**

7. Go to **Additional Properties,** and then click **Custom Properties.**

8. Click **New.**

Enter the following information:

Name: javax.xml.transform.TransformerFactory

Value: org.apache.xalan.processor.TransformerFactoryImpl

9. Click **OK.**

10. Click **Save** to commit the setting.

Setting Up the Web Container Custom Properties.

To set the Web Container Custom Properties:

1. Connect to the WebSphere ND administrative console.

2. Select **Servers,** and then select **Application Servers.**

3.   Select the server name.

4.   Go to **Container Settings,** and then click **Web Container Settings.**

5.   Select Web container

6.   Go to **Additional Properties,** and then click **Custom properties.**

7.   Click **New.**

     Enter the following information:

     Name: com.ibm.ws.webcontainer.invokefilterscompatibility

     Value: true

8.   Click **OK.**

9.   Click **Save** to commit the setting.

Starting and Stopping WebSphere ND servers

You can use the WebSphere ND console to stop and start the servers. You can also use the command line scripts supplied with WebSphere ND.

> **Note:** The Oracle Utilities Application Framework script **spl.sh** does not stop or start the IBM WebSphere ND servers. It only stops and starts the Oracle Utilities Customer Care and Billing applications.

Deployment Using Supplied Script

The application deployment script is initialSetup.sh.-d, located in $SPLEBASE/bin (this deploys both the SPLService.ear and SPLWeb.ear).

> **Note:** Before running the script ensure you have initialized the environment by running splenviron.sh

Deployment via the Admin Console

Follow these steps to deploy the application using the Admin Console:

Deployment Overview

The application needs to be deployed in the following order:

1.   SPLService.ear

2.   SPLWeb.ear

> **Note:** The SPLService.ear must be successfully deployed before deploying SPLWeb.ear

Deploy SPLService.ear

1.   Select the ear file to deploy.

     • Select **Applications, Install New Application.**

     • Select **Remote file system.**

     • Browse to the SPLService.ear or enter the full path to the file.

     • The ear files can be found under $SPLEBASE/splapp/applications.

     Click **Next.**

2.   Select **Option Fast Path - Prompt only when additional information is required.**

     Click **Next.**

3.   On the Select installation options page

Ensure **Deploy enterprise beans** is selected.

Click **Next.**

4. Assign the module to the IBM WebSphere ND server instance.

When deploying an application from the console make sure you select the correct server and click **Apply.**

5. Review the summary page. Review the installation options

6. Click **Finish**. The application will then deploy. The deployment process takes about 5 minutes.

7. Click **Save.** The save process can take about more than 20 minutes.

Deploying SPLWeb.ear

1. Select the ear file to deploy.

   • Select **Applications, Install New Application.**

   • Select **Remote file system.**

   • Browse to the SPLWeb.ear or enter the full path to the file.

   • The ear files can be found under $SPLEBASE/splapp/applications.

   Click **Next.**

2. Select **Option Fast Path - Prompt only when additional information is required.**

   Click **Next.**

3. Assign the module to the IBM WebSphere ND server instance.

   When deploying an application from the console make sure you select the correct server and click **Apply.**

4. Review the summary page. Review the installation options

5. Click **Finish**. The application will then deploy. The deployment process takes about 5 minutes.

6. Click **Save.** The save process can take about more than 20 minutes.

Configure the Applications

You need to apply these steps to both the SPLWeb and SPLService applications unless specified.

1. Set the startup order of the applications (this applies only to SPLWeb):

   • Select the SPLWeb application from **Applications, Enterprise Applications.**

   • Select **Startup behavior.**

   • Change the startup order to 2.

   Click **OK.**

   Click **OK** and Save directly to master configuration.

2. Set the class loading order (for both SPLService.ear and SPLWeb.ear): Select Class loading and update detection.

   • Set Polling interval to 0.

   • Under Class loader order select Classes loaded with application class loader first. Click OK and Save to master configuration.

3. Set the module starting weight:

   • SPLService only - set the Starting weight to 1.

- SPLWeb only - for each module (.war) set the Starting weight to 10000 and change the Class loader order to Classes loaded with application class loader first

4. Set EJB JNDI names (this applies only to SPLService). Select Enterprise Java Bean Properties and enter the following values:

- **EJB module:** SPLServiceBean

- JNDI name for all interfaces

- **Target Resource JNDI Name:** [Web Context Root]/servicebean

- **EJB module:** TUGBULiteServiceBean

- JNDI name for all interfaces

- **Target Resource JNDI Name:** [Web Context Root]/liteservicebean

5. Click **Ok.**

Configure Application Security

After using the supplied script to deploy the application to IBM WebSphere ND you will need to configure each application's security before starting the application.

Using the IBM WebSphere ND administration console select **Applications, Enterprise Applications, Business-<server name>** (for example, SPLService-server2), **Security role to user/group mapping.**

For role cisusers:

- Check **All Authenticated.**

- Check **Select** and click **Look up users:**

- Search for SYSUSER and add to the Selected users list.

- Click **OK.**

> **Note:** Repeat the process for <Web Server Application Name>-<server name>(for example, SPLWeb-server2).

Restart the IBM WebSphere ND Server

It is recommended to stop and then restart the WebSphere ND server.

Application URL

The Web link to the IBM WebSphere ND application will be:

```
http://<hostname>:<WC_default_port>/<context_root>/loginPage.jsp
```

For example, http://oracle.test-02:9085/ouaf/loginPage.jsp

Chapter 9

Installing the Application Server Component of Oracle Utilities Application Framework

Installing the Oracle Utilities Application Framework ("the framework") is the prerequisite and foundation for installing a framework-based application such as Oracle Utilities Customer Care and Billing. This section describes the process for installing the Oracle Utilities Application Framework, including:

- Installation Overview

- Preinstallation Tasks

- Installing Oracle Utilities Application Framework

Installation Overview

This process replaces any previously delivered and installed version of the Oracle Utilities Application Framework Server. Before you proceed:

1. Make sure that you have installed all the required third-party software as described in Chapter 7: Installing Application Server Prerequisite Software.

2. Complete the database installation (refer to the *Oracle Utilities Customer Care and Billing Database Administrator's Guide*))

The installation packages for your Oracle Utilities Application Framework-based application must be downloaded from the Oracle Software Delivery Cloud. A new installation or an upgrade to an existing Oracle Utilities Application Framework-based application environment can be performed for this version.

If you plan to upgrade a previously installed application server, note that the installation process replaces the previously installed version of the Oracle Utilities Application Framework Server. Before you proceed with the upgrade of an existing installation, make a backup of the application environment's folders and files

Before you proceed with the installation process:

1. Make sure that you have installed all the required third-party software as described in Chapter 7: Installing Application Server Prerequisite Software.

2. Complete the database installation/upgrade process. Refer to the Oracle Utilities Customer Care and Billing Database Administrator's Guide.

Once the Oracle Utilities Application Framework installation is successfully completed and the framework application environment is created, Oracle Utilities Customer Care and Billing can be installed on top of the framework environment.

You can download the installation packages from the Oracle Software Delivery Cloud.

This section describes how to install a working Oracle Utilities Application Framework Server, which can then be further configured manually to allow for production performance levels.

Application server installation packages delivered for this version are multi-platform and are ready to install on any supported platform (as described in the section Supported Platforms). We recommend that you complete the database installation before installing the application server.

Preinstallation Tasks

Hardware and Software Version Prerequisites

The section Supported Platforms contains all of the available platforms that are required with this release of the product.

Database Installation

Verify that the database has been installed and is operational. See *Oracle Utilities Customer Care and Billing Database Administrator's Guide* for more information.

Installation Prerequisites

Chapter 7**:** Installing Application Server Prerequisite Software describes all preparations that need to be done on the server prior to installing the application server. Please read carefully the server setup requirements and make sure that all prerequisite software is installed and that all required environment variables are set. Correct server setup and proper environment variable settings are an essential prerequisite for successful environment installation.

System Architecture Overview

Oracle Utilities Application Framework V4.2.0 is a decoupled system architecture involving a business service application tier and a web application tier. Typically both will run on the same server, but the design does allow each tier to be installed on separate servers.

The design implements a stateless session bean (EJB technology, under Java EE 6), to provide remote access to service invocations. The root web app and XAI web apps can be configured to access service processing locally (as in previous versions), or to make a remote EJB call to perform the service request. In the latter case, the served containers, effectively, run as very thin servlet wrappers around the remote call.

For all supported application servers except for WebLogic expanded configuration (SDK environment), the deployment is in the form of two Enterprise Archive (ear) Files: SPLService.ear and SPLWeb.ear. Web Archive (war) files are created during the installation process but are not deployed.

Copying and Decompressing Install Media

The Oracle Utilities Application Framework V4.2.0 Service Pack 2 installation file is delivered in jar format for both UNIX and Windows platforms. If you are planning to install multiple Oracle Utilities Application Framework V4.2.0 Service Pack 2 environments operated by different Oracle Utilities administrator user IDs, you must complete each of the following installation steps for each administrator user ID.

To copy and decompress the install media, follow these steps:

1. Log in to the application server host with the Oracle Utilities Application Framework administrator user ID.

2. Download the Oracle Utilities Application Framework V4.2.0.2.0 Multiplatform from Oracle

Software Delivery Cloud.

3. Create a temporary directory such as c:\ouaf\temp or /ouaf/temp. (Referred to below as <TEMPDIR>.)

> **Note:** This directory must be located outside any current or other working Oracle Utilities application environment. All files that are placed in this

directory as a part of the installation can be deleted after completing a successful installation.

4. Copy the file FW-V4.2.0.2.0-MultiPlatform.jar from the delivered package to the <TEMPDIR>. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.

5. Decompress the file:

    ```
    cd <TEMPDIR>

    jar -xvf FW-V4.2.0.2.0-MultiPlatform.jar
    ```

    > **Note:** You will need to have Java JDK installed on the machine used to (un)jar the application server installation package. Please install the JDK that is supported for the install on your platform to be able to use the jar command. This is the location of Java packages: http://www.oracle.com/technetwork/java/archive-139210.html

A sub-directory named "FW.V4.2.0.2.0" is created. It contains the installation software for the Oracle Utilities framework application server.

Set Permissions for the cistab File in UNIX

Every Oracle Utilities Application Framework environment installed on a server must be registered in the /etc/cistab file located on that server. On UNIX servers, generally only the root user ID has write permissions to the /etc directory. Since the installation process is run by the Oracle administrator user ID (cissys), this user ID may not be able to write to /etc/cistab table.

The install utility checks permissions and if it identifies a lack of the necessary permissions, it generates a script in the <TEMPDIR>/FW.V4.2.0.2.0 directory named cistab_<SPLENVIRON>.sh. Run the generated script using the root account before continuing with the installation process. The script initializes the cistab file in /etc directory (if it is the first Oracle Utilities Framework application environment on the server) and registers a new environment.

The generated script also changes the owner of /etc/cistab file to the Oracle Utilities Framework administrator user ID, so that the next time a new environment is created by the same Oracle Utilities Framework administrator user ID, you do not need to run the generated script with the root user ID. Instead the install utility itself proceeds with the registration.

If you are reinstalling an existing environment, only the validation of /etc/cistab entry is done by the install utility, no new registration occurs. The install utility interactively instructs you about every step that needs to occur in each specific case.

If you are planning to upgrade an existing environment it is your responsibility to take a backup prior to the installation process. The installation utility does not create a backup of existing environment.

Installing Oracle Utilities Application Framework

This section outlines the steps for installing the Application Framework.

Brief Description of the Installation Process

1. Log on as the Oracle Utilities Framework administrator (the default is cissys on UNIX) or as a user with Administrator privileges (on Windows).

2. Configure your application server and any third-party software required for your platform, as outlined in Chapter 7: Installing Application Server Prerequisite Software

3. Change directory to the *<TEMPDIR>*/FW.V4.2.0.2.0 directory.

4. Set the following path:

   `export PATH=/usr/java6_64/bin:$PATH`

   > **Note:** The above command is only applicable on a Unix platform.

5. Start the application installation utility by executing the appropriate script:

   UNIX: ksh ./install.sh

   Windows: install.cmd

6. Follow the messages and instructions that are produced by the application installation utility. Use the completed worksheets in the section Installation and Configuration Worksheets to assist you.

7. Installation of Oracle Utilities Framework Application Server is complete if no errors occurred during installation.

Detailed Description of the Installation Process

1. Log on to the host server as Oracle Utilities Application Framework administrator.

   Logon as cissys (on UNIX) or as a user with Administrator privileges (on Windows).

2. Configure application server and third-party software.

   Complete all steps outlined in Installing Application Server Prerequisite Software You will need to obtain specific information for the install.

3. Change directory to the *<TEMPDIR>*/FW.V4.2.0.2.0 directory and start the application installation utility by executing the appropriate script:

   UNIX: ksh ./install.sh

   Windows: install.cmd

4. On the Environment Installation Options menu, select item 1: Third Party Software Configuration.

   Use the completed Third Party Software Configuration worksheet in Installation and Configuration Worksheets to complete this step.

5. Select menu item 50: Environment Installation Options.

   Use the completed Environment Installation Options Worksheet to complete this step. See Installation and Configuration Worksheets.

   > **Note:** You must create the directory for output (the Log Mount Point). The installation process fails if this directory does not exist.

   • Specify the environment name and the environment directory names for a new installation on a menu screen.

- Specify the type of the database your environment will be connected to (the default will be Oracle).

- Specify the web application server your environment will run with (the default will be WebLogic).

- Enter P to accept the selected options.

- During this step, the specification of a new environment is checked for validity against /etc/cistab and the permissions on mount points and directories.

- Below are the mandatory lists of configurable items along with descriptions for a few items.

6. Configure environment parameters.

- During this step you will configure environment parameters such as web server hosts and ports, database name, and user ID.

- The application installation utility shows default values for some configuration options.

- Use the completed Environment Configuration Worksheet to assist you.

- Note: Every option requires a value for a successful install. It is important to provide all values.

- When you are done with the parameters setup, proceed with the option P.

- All of the options will be written in the following File: $ SPLEBASE/etc/ ENVIRON.INI.

- You will be warned if you did not edit a section. You may proceed if you want to keep the default settings.

- The application installation utility copies the installation media to a new environment.

    - The installation utility copies the new version software from the temporary installation media directory to the new environment.

    - If any manual or electronic interruption occurs during this step, you can rerun the install utility from the beginning and follow the interactive instructions. The application installation utility is able to recover from such a failure.

- The application installation utility generates environment configuration parameters:

    - The application installation utility automatically executes the script initialSetup.sh (on UNIX) or initialSetup.cmd (on Windows), located in $SPLEBASE/bin (%SPLEBASE%\bin on Windows) directory. This script populates different application template configuration files with the new environment variables values and completes the rest of the installation steps.

7. Set up environment variables.

Once the ENVIRON.INI file is created and contains the correct environment parameters, the application installation utility starts a sub shell to the current process by executing the splenviron.sh (on UNIX) or splenviron.cmd (on Windows) script, located in $SPLEBASE/ bin (or *%SPLEBSE%\etc for Windows)* directory. This script sets up all the necessary environment variables and shell settings for the application server to function correctly.

From this point, a number of environment variables have been set up. Some key ones are:

- $PATH - an adjustment to $PATH is made so that all of the environment scripts and objects will be in the path.

- $SPLEBASE (%SPLEBASE%) - stands for <SPLDIR>/<SPLENVIRON> directory

- $SPLOUTPUT (%SPLOUTPUT%) - stands for <SPLDIROUT>/<SPLENVIRON> directory

> **Note:** Make sure that this directory exists. Otherwise the installation script will fail.

• $SPLENVIRON (%SPLENVIRON%) - environment name

For future operations or any post installation steps, you need to first execute the following command to connect your session to the new environment:

UNIX: $SPLEBASE/bin/splenviron.sh -e $SPLENVIRON

Windows:%SPLEBASE%\bin\splenviron.cmd -e %SPLENVIRON%

You need to execute this script each time you want to be connected to the specific environment before performing manual operations such as shutdown, startup or performing an additional application product installation.

When you have finished the install process, your current online session will be connected to the new environment.

See the Planning the Installation for settings and configuration.

Chapter 10

Installing the Application Server Component of Oracle Utilities Customer Care and Billing

This section describes the procedure for installing Oracle Utilities Customer Care and Billing on top of the previously created Oracle Utilities Application Framework environment. This section includes:

- Preinstallation Tasks

- Installing the Application

- Installing User Documentation

- Integrating Customer Modifications into the Upgraded Environment

- Operating the Application

- Installing Service Packs and Patches

You can download the installation package from the Oracle Software Delivery Cloud. If the Framework installation was processed on previously existing Oracle Utilities Customer Care and Billing environment, then customer modifications relevant for this version and compliant with the proper naming conventions (as described in the *Oracle Utilities Customer Care and Billing Database Administrator's Guide)* have been preserved in the new environment by the Framework installation process.

To proceed with the Oracle Utilities Customer Care and Billing installation you need to be connected to the target framework application environment. See the detailed installation instructions in the following section.

You *must* initialize the Framework environment along with the required Patch Set prior to proceeding with Oracle Utilities Customer Care and Billing Application product installation. For detailed instructions see Preparing for the Installation.

Preinstallation Tasks

This section describes the steps that should be taken before installing Oracle Utilities Customer Care and Billing.

Installing Prerequisite Patches

Oracle Utilities Application Framework patches must be installed prior to installing Oracle Utilities Customer Care and Billing.

The patches are available as a convenience rollup inside the zip file, CCB-V2.4.0.2.0-FW-PREREQ-MultiPlatform.zip, which is part of the downloaded Media Pack.

Please refer to the instructions contained in the readme.txt file inside the rollup directory for the steps to install the patches. For a list of the patches that are included in this rollup, refer to Appendix A**:** Application Framework Prerequisite Patches.

Copying and Decompressing Install Media

The installation file is delivered in jar format for both UNIX and Windows platforms.

Oracle Utilities Customer Care and Billing is delivered in a separate installation package for each supported Operating System. Please refer to the Supported Platforms for version and installation details regarding the database and operating system versions. Also see Chapter 7**:** Installing Application Server Prerequisite Software for prerequisite third-party software installation instructions.

Download the installation package for your operating system and proceed with the following instructions.

1. Log in to the host server as the Oracle Utilities Application Framework administrator user ID (default cissys). This is the same user ID that was used to install the Oracle Utilities Application Framework.

2. Create a <TEMPDIR> directory on the host server, which is independent of any current or other working Oracle Utilities Customer Care and Billing application environment. This can be the same <TEMPDIR> used during the installation of the Oracle Utilities Application Framework.

3. Copy the file CCB-V24020-<Platform>.jar in the delivered package to a <TEMPDIR> on your UNIX box. If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.

4. Decompress the file:

    ```
    cd <TEMPDIR>

    jar -xvf CCB-V24020-<Platform>.jar
    ```

    > **Note:** You will need to have Java JDK installed on the machine used to (un)jar the application server installation package. Please install the JDK that is supported for the install on your platform to be able to use the jar command. This is the location of Java packages: http://java.sun.com/products/archive/index.html

For Windows installs, include the location of the JDK in your path before you execute the jar command.

For both Unix and Windows platforms, a sub-directory named CCB.V2.4.0 is created. The contents of the installation directory are identical for both platforms. The directory contains the install software for the application product.

Preparing for the Installation

1. Log on as Oracle Utilities Customer Care and Billing Administrator (default cissys).

2. Initialize the Framework environment that you want to install the product into.

   UNIX:

   ```
   $SPLEBASE/bin/splenviron.sh  -e $SPLENVIRON
   ```

   Windows:

   ```
   $SPLEBASE\bin\splenviron.cmd -e %SPLENVIRON%
   ```

3. Stop the environment if running.

   UNIX:

   ```
   $SPLEBASE/bin/spl.sh stop
   ```

   Windows:

   ```
   %SPLEBASE%\bin\spl.cmd stop
   ```

Installing the Application

1. Change to the <TEMPDIR>/CCB.V2.4.0.2.0 Directory.

2. Set the following path:

   ```
   export PATH=/usr/java6_64/bin:$PATH
   ```

   > **Note:** The above command is only applicable on a Unix platform.

3. Execute the script:

   UNIX:

   ```
   ksh ./install.sh
   ```

   Windows:

   ```
   install.cmd
   ```

   > **Note:** On UNIX, ensure that you have the proper execute permission on install.sh

4. Follow the messages and instructions that are produced by the install utility. Please note that some of the steps (such Generate Application Viewer Items) will take some time to complete.

5. If the install utility execution was not stopped due to errors and you did not interrupt the execution, you have finished the installation of the Oracle Utilities Customer Care and Billing Application product.

6. Execute the following commands:

Unix:

```
splenviron.sh -e <ENV_NAME>
configureEnv.sh
```

Type **P** and <ENTER> (you don't need to change anything)

```
splenviron.sh -e <ENV_NAME>
initialSetup.sh
```

Windows:

```
splenviron.cmd -e <ENV_NAME>
configureEnv.cmd -e <ENV_NAME>
```

Type **P** and <ENTER> (you don't need to change anything)

```
splenviron.cmd -e <ENV_NAME>
initialSetup.cmd
```

Notes.

• **For WebSphere environment installations:** at the end of the installation process you will be prompted whether to deploy the application into WebSphere server. If you reply **Y** the installation script will deploy the application into WebSphere using wsadmin tool. If you reply **N** you may deploy the application into WebSphere manually using WebSphere admin console, or by executing the genwasdeploy utility.

7. Start up the environment.

The final step of the installation process is the environment startup. The install utility executes the command spl.sh start (for UNIX) or spl.cmd start (for Windows) to start up the environment. You may start the environment by this command any time. Follow the messages on the screen and check the logs in $SPLSYSTEMLOGS (%SPLSYSTEMLOGS% on Windows) directory to ensure that the environment was started successfully. If the startup failed, identify the problem by reviewing the logs, and start up the environment manually while you are connected to the new environment in your online session.

Note:

• **For WebSphere environment installations:** because the WebShere server usually runs under root user id, it needs to be restarted with the new environment variable settings after Oracle Utilities Customer Care and Billing environment installation and deployment into WebSphere. To do this switch to root user id, setup $WAS_HOME environment variable (and the rest of environment variables as described in Chapter 7: Installing Application Server Prerequisite Software), initialize the newly installed environment by executing the command: $SPLEBASE/bin/splenviron.sh -e $SPLENVIRON and after that shutdown and startup WebSphere server using WebSphere commands, e.g. $WAS_HOME/bin/startServer.sh server1. After the initial server restart you may start the application by the environment startup/shutdown commands or through WebSphere Admin console.

Installing User Documentation

This section provides instructions for installing the Oracle Utilities Customer Care and Billing user documentation that is supplied with the system. Oracle Utilities Customer Care and Billing user documentation in printable format is provided as Word documents. CCB V2.4.0 User Documentation is available as a separate download within the Oracle Utilities Customer Care and Billing Media Pack on the Oracle Software Delivery Cloud.

The documentation is also provided in HTML format located inside the Oracle Utilities Customer Care and Billing application server installation package. It is automatically installed and can be launched from the user interface. The files are under the applications directory packaged in the file named help.war. User documentation is provided in English (ENG). The documentation material is divided into the following subdirectories underneath the language directory:

- C1: Oracle Utilities Customer Care and Billing Administration and Business Process Guides

- F1: Oracle Utilities Application Framework Administration and Business Process Guides

Installing Stand-Alone Online Help

You can also use the Oracle Utilities Customer Care and Billing online help in stand-alone mode (that is, you do not have to launch it from the Oracle Utilities Customer Care and Billing application or access it on the application server).

To install the Oracle Utilities Customer Care and Billing help for stand-alone operation, copy the help.war from the Oracle Utilities Customer Care and Billing server (environment) or from the Oracle Utilities Customer Care and Billing installation package to the server or machine on which you want to access the help. If you want to copy the file from any installed Oracle Utilities Customer Care and Billing environment, you can locate the file in the $SPLEBASE/splapp/applications directory on the server.

Unzip the help.war file to any directory on your machine. To launch the Oracle Utilities Customer Care and Billing help in stand-alone mode, open the SPLHelp.html file (located inside the language directory that you wish to use).

> **Note.** Do not change the subdirectory names. The documents use relative path names to link to other documents. Changing the subdirectory names will result in broken links.

Customizing Help for Stand-Alone Operation

You can customize the SPLHelp.html file to open to the file and topic that you most frequently use. To do so, edit the SPLHelp.html file and change the DEFAULT_BOOKMARK to the desired location. The default DEFAULT_BOOKMARK is 'helpHome.html'.

Installing Stand-Alone Help Under Web Server

You can also install Oracle Utilities Customer Care and Billing online help as a stand-alone web application. Use any Web Application server like WebLogic or WebSphere. Configure the configuration file for your web application server to use web application help.

For example,

- For WebLogic, configure config.xml file for deployed application Name="help"with URI="help.war" and set WebServer DefaultWebApp="help"

- For WebSphere, configure application.xml with module id="WebModule_help" and <web-uri>help.war</web-uri>

Access the documentation from the browser by the following URL :
http://<host name>:<port name>/SPL/<Lang>/SPLHelp.html, where
<hostname>:<portname> is the URL of the web server, <Lang> is the name of the language directory, for example, ENG.

> **Note:** Stand-alone online help files are not automatically updated when changes are made to the help files on the application server. You will have to re-install the stand-alone online help files.

Integrating Customer Modifications into the Upgraded Environment

If you are upgrading or installing into an existing environment that had customer modifications, the install utility will have backed up all your customer modifications in a temporary installation area and copied them back into the environment at the end of the upgrade process. The *Oracle Utilities Customer Care and Billing Database Administrator's Guide* describes the rules supported by the installation utility to preserve customer modifications. It also discusses the naming conventions for implementing custom modules.

The configuration files of the existing environment are backed up in the directory $SPLEBASE/etc on UNIX and %SPLEBASE%\etc on Windows during installation by the install scripts to preserve any customer changes. Since technologically the framework of this version differs significantly from all previous versions, all configuration files are regenerated from the new templates by the installation process and any previous customer modifications to these configuration files will need to be reapplied manually where applicable, using the backed up files as a reference.

The upgraded version of Oracle Utilities Customer Care and Billing base product may require significant changes to integrate into the new version. Please refer to the Oracle Utilities Customer Care and Billing Software Development Kit product documentation for instructions how to do that.

In case no code changes are required to be applied to the upgraded environment, it is necessary to rebuild the CM Java sources. In order to run this build, follow these steps:

1. Execute applyCM from corresponding Oracle Utilities Customer Care and Billing Software Development Kit version on the upgraded environment with option "-b" (full build) option. For more details, see the document 02Cookbook.doc within Oracle Utilities Customer Care and Billing Software Development Kit documentation:

   UNIX:

   ```
   cd $SPLEBASE
   <SDK bin folder>/applyCM.sh -b
   ```

   Windows:

   ```
   cd %SPLEBASE%
   <SDK bin folder>\applyCM.cmd -b
   ```

Operating the Application

At this point your installation and custom integration process is complete.

Be sure to read the *Oracle Utilities Customer Care and Billing Server Administration Guide* for more information on further configuring and operating the Oracle Utilities Customer Care and Billing system.

Installing Service Packs and Patches

Periodically, Oracle Utilities releases a service pack of single fixes for its products. A service pack is an update to an existing release that includes solutions to known problems and other product enhancements. A service pack is not a replacement for an installation, but a pack consisting of a

collection of changes and additions for it. The service pack may include changes to be applied to the application server, the database, or both. The service pack includes all files necessary for installing the collection of changes, including installation instructions.

Between services packs, Oracle Utilities releases patches to fix individual bugs. For information on installing patches, see knowledge base article ID 974985.1 on My Oracle Support.

Service packs and patches can be downloaded from My Oracle Support (https://support.oracle.com/).

Chapter 11

Installing Version 2.4.0 Service Pack 2

This section provides instructions for installing Oracle Utilities Customer Care and Billing 2.4.0 Service Pack 2. This section includes:

- Prerequisites

- Upgrading the Database

- Upgrading the Application

For fixes included in this service pack, see Appendix A: Application Framework Prerequisite Patches.

For known issues in this service pack, see the Release Notes included with this service pack.

Prerequisites

There are no prerequisites.

Upgrading the Database

For instructions on upgrading the database component, please refer to the *Oracle Utilities Customer Care and Billing Database Administrator's Guide*. This guide is included in the Oracle Utilities Customer Care and Billing V2.4.0.2.0.zip file delivered with the package.

Upgrading the Application

> **Note:** This upgrade process is only applicable if the existing product version is 2.4.0 or 2.4.0 Service Pack 1.
>
> For all other supported upgrade paths, please follow instructions listed in Chapter 9 and Chapter 10 of this document.

To upgrade to this service pack, you must install the following components in the order mentioned below:

- Oracle Utilities Application Framework v4.2.0.2
- Oracle Utilities Customer Care and Billing v2.4.0.2.0 Single Fix Prerequisites
- Oracle Utilities Customer Care and Billing v2.4.0 Service Pack 2

This section includes information on the following:

- Upgrading to Oracle Utilities Application Framework v4.2.0.2
- Applying Oracle Utilities Customer Care and Billing v2.4.0.2.0 Single Fix Prerequisite
- Upgrading Oracle Utilities Customer Care and Billing
- Post-Upgrade Steps
- Operating the Application

Upgrading to Oracle Utilities Application Framework v4.2.0.2

Ensure that the database component is successfully installed before proceeding with the steps below:

1. Create a <TEMPDIR> directory on the host server that is independent of any current or other working application environment.

2. Copy the delivered package zip file to <TEMPDIR> and unzip it. For example, the Linux copy for Framework V4.2.0.2 is "FW-V4.2.0.2.0-Multiplatform.zip".

   > **Note:** If you are using FTP to transfer this file, remember to use the BINARY option for the FTP transfer.

3. Log in to the application server host server as the administrator user ID (default cissys).

4. Change directory:

   ```
   cd <install_dir>/bin
   ```

   where <install_dir> is the location where the Oracle Utilities Customer Care and Billing application component is installed.

5. Initialize the Oracle Utilities Customer Care and Billing environment by running the appropriate command:

   UNIX:

   ```
   ./splenviron.sh -e <ENV NAME>
   ```

   Windows:

   ```
   splenviron.cmd -e <ENV NAME>
   ```

6. If the environment is running, stop it by running the appropriate command:

UNIX:

```
./spl.sh stop
```

Windows:

```
spl.cmd stop
```

7. Ensure that you have executed splenviron.sh -e <$SPLENVIRON> prior to the installation process.

> **Note:** The installation utility DOES NOT create backup of installed files. You must backup <$SPLEBASE> before continuing with the rest of the installation utility.

8. Change directory to the <TEMPDIR>/FW-V4.2.0.2.0 directory and run the below script.

UNIX:

```
./installSP.sh
```

Windows:

```
installSP.cmd
```

9. The installation utility informs that the Service Pack (v4.2.0.2) is about to be installed into the environment <$SPLENVIRON>.

10. The utility prompts you to press Enter to continue with the rest of the installation process of Oracle Utilities Application Framework v4.2.0.0 Service Pack 2 (v4.2.0.2).

Applying Oracle Utilities Customer Care and Billing v2.4.0.2.0 Single Fix Prerequisite

> **Note:** The Oracle Utilities Application Framework V4.2.0.2.0 Application Server must be installed prior to installing this Single Fix Prerequisite.

You must install the corresponding database component of this Single Fix Prerequisite. See the *Oracle Utilities Customer Care and Billing Database Administrators Guide* section "Installing Prerequisite Database Single Fixes" for instructions.

To install the Oracle Utilities Customer Care and Billing v2.4.0.2.0 Single Fix Prerequisite:

1. Unzip the CCB-V2.4.0.2.0-FW-PREREQ-MultiPlatform.zip file to a temporary location <temp location>.

2. Navigate to the <temp location> and unjar the CCB-V24020-FW-PREREQ-MultiPlatform.jar using the following command:

```
 jar -xvf CCB-V24020-FW-PREREQ-MultiPlatform.jar
```

3. Navigate to the <temp location>/FW_V4.2.0.2.0-Rollup folder.

4. Execute the group installation script:

On Unix / Linux:

```
chmod a+x installSFgroup.sh
chmod a+x FW*/*.sh
./installSFgroup.sh
```

On Windows:

```
installSFgroup.cmd
```

5. Check the results of the installation of the roll up using the script provided in the package. This script will scan through each bug fixes log file within their respective bug fix folders and report any errors discovered that it finds in the logs.

On Unix / Linux:

```
perl SPErrorChecker.plx
```

On Windows:

```
perl SPErrorChecker.plx
```

Upgrading Oracle Utilities Customer Care and Billing

1. Log in to the application server host server as the administrator user ID (default cissys).

2. Change directory:

   ```
   cd <install_dir>/bin
   ```

   where <install_dir> is the location where the Oracle Utilities Application Framework application component is installed.

3. Initialize the Oracle Utilities Application Framework environment by running the appropriate command:

   UNIX:

   ```
   ./splenviron.sh -e <ENV NAME>
   ```

   Windows:

   ```
   splenviron.cmd -e <ENV NAME>
   ```

4. If the environment is running, stop it by running the appropriate command:

   UNIX:

   ```
   ./spl.sh stop
   ```

   Windows:

   ```
   spl.cmd stop
   ```

5. Go to the <TEMP>/CCB.V2.4.0.2.0 folder

6. Execute the install script:

   > **Note:** On UNIX, ensure that you have the proper execute permission on install.sh.

   UNIX:

   ```
   ./install.sh
   ```

   Windows:

   ```
   install.cmd
   ```

7. The utility displays a message that you are about to install the product Customer Care and Billing into the environment <$SPLENVIRON> located at <$SPLEBASE>.

   > **Note:** Ensure that you have executed splenviron.sh -e <$SPLENVIRON> prior to the installation process.

8. The installation utility asks you to confirm that you want to proceed with the installation process. Enter Y.

9. The installation process begins. The utility displays a warning that the product Customer Care and Billing is already installed in the environment. You are asked to confirm whether you want to reinstall the product. Enter Y.

10. When you are done with the confirmation, proceed with the option P.

This completes the installation of Oracle Utilities Customer Care and Billing v2.4.0 Service Pack 2

Post-Upgrade Steps

1. Log in to the application server host server as the administrator User ID (default cissys).

2. Change directory:

   `cd <install_dir>/bin`

   where <install_dir> is the location where the Oracle Utilities Application Framework application component is installed.

3. Initialize the environment by running the appropriate command:

   UNIX:

   `./splenviron.sh -e <ENV NAME>`

   Windows:

   `splenviron.cmd -e <ENV NAME>`

4. Navigate to $SPLEBASE/bin.

5. Perform the post-installation steps as described below:

   UNIX:

   `ksh ./configureEnv.sh`

   Windows:

   `configureEnv.cmd`

   > **Note:** On UNIX, ensure that you have the proper execute permission on configureEnv.sh.

6. Generate the appviewer by following the steps in Generating the Application Viewer.

7. Verify and review the log files to ensure that there are no errors during the upgrade process.

Operating the Application

At this point your installation of this service pack is complete. Be sure to read the *Oracle Utilities Customer Care and Billing Server Administration Guide* for more information on further configuring and operating the system.

Chapter 12

Additional Tasks

This section describes tasks that should be completed after installing Oracle Utilities Customer Care and Billing, including:

- Customizing Configuration Files
- Integrating Existing Customer Modifications
- Generating the Application Viewer
- Building Javadocs Indexes
- Configuring the Environment for Batch Processing
- Customizing the Logo
- WebLogic Production Server Considerations
- Setting Up an Application Keystore
- Updating the Hash Column on the User Table

Customizing Configuration Files

You may wish to make customer modifications to various configuration files. To do so, you should locate the configuration file you want to customize and edit it manually.

Configuration files are generated from delivered templates in the Oracle Utilities installation and are populated by values entered by the installation utility during the configuration process. In future upgrades of Oracle Utilities application software versions, some templates may be changed to reflect new software version requirements. In this case, the upgrade process will back up your customized configuration file and will regenerate a configuration file based on a new template. You will need to review the new configuration file and apply your customized changes back if still applicable for the new version.

For configuration files that are located in a web application (for example, web.xml, hibernate.properties), of the web application during installation process, you will not be able to edit the configuration files directly.

You will need to follow the procedure:

• Locate the configuration file you want to customize in the directory $SPLEBASE/etc/conf.

• Apply your changes.

• Update application war file with the latest changes by executing the following command:

Unix:

```
$SPLEBASE/bin/initialSetup.sh
```

Windows:

```
%SPLEBASE%\bin\initialSetup.cmd
```

Integrating Existing Customer Modifications

If the installation utility executed on a previously existing environment, it will preserve customer modifications according to the rules described in the *Oracle Utilities Customer Care and Billing Database Administrator's Guide*. In most cases, additional development or configuration actions need to be taken to adjust and integrate upgraded customer modifications to the new version.

Refer to the *Oracle Utilities Customer Care and Billing* installation section of this document and to the SDK documentation for more information.

Generating the Application Viewer

You may extend application viewer capabilities within an environment by generating additional items. The additional items that can be generated include algorithm type and related algorithm information, maintenance object information and data dictionary information.

To generate the additional items in the application viewer:

1. Shut down the environment.

2. Initialize a command shell:

   The scripts that are provided with the system need to be run from a shell prompt on the machine that you installed the application on. Before such scripts can be run the shell must be "initialized" by running the splenviron script provided with the system.

   Unix:

   You will need to logon to your UNIX box as the Oracle Utilities Administrator (default cissys) and open a shell prompt. In the following example you should replace the variables

   $SPLEBASE with the Full directory name that you installed the application into

   and

   $SPLENVIRON with the name you gave to the environment at installation time.

   To initialize the environment enter:

   $SPLEBASE/bin/splenviron.sh -e $SPLENVIRON

   For example:

   /ouaf/TEST_ENVIRON1/bin/splenviron.sh -e TEST_ENVIRON1

   Windows:

   The command window should be opened on the Windows server that you installed the application on.

   In the below example you should replace the following variables:

   - **%SPLEBASE% :** The Full directory name that you installed the application into

   - **%SPLENVIRON%:** The name you gave to the environment at installation time.

   To initialize the environment type the following in your command prompt:

   %SPLEBASE%\bin\splenviron.cmd -e %SPLENVIRON%

   For example:

   D:\ouaf\TEST_ENVIRON1\bin\splenviron.cmd -e TEST_ENVIRON1

3. Set MaxHeapMemory for AppViewer Generation

   UNIX:

   - configureEnv.sh -g

   - Select menu option 50 and change the value of the parameter "Enable Batch Edit Funtionality" to "true".

   - Run initialSetup.sh

   - Run bedit.sh -e THIN

     - This will prompt if you want to create submitbatch.THIN.properties

     - reply Y

- set maxheap 1024m
- Save
- Exit

WINDOWS:

- configureEnv.cmd -g
- Select menu option 50 and change the value of the parameter "Enable Batch Edit Funtionality" to "true".
- Run initialSetup.cmd
- Run bedit.cmd -e THIN
- This will prompt if you want to create submitbatch.THIN.properties
- reply Y
- set maxheap 1024m
- Save
- Exit

4. Execute the following script to generate all information.

   UNIX:

   ```
   ksh $SPLEBASE/bin/genappvieweritems.sh
   ```

   Windows:

   ```
   %SPLEBASE%\bin\genappvieweritems.cmd
   ```

5. Execute the following script to generate all information.

   UNIX:

   ```
   Ksh ./initialSetup.sh
   ```

   Windows:

   ```
   initialSetup.cmd
   ```

6. Restart your application.

Building Javadocs Indexes

The following script rebuilds the Javadocs indexes in the application viewer java module. This is necessary after customer modifications (CM) have been applied to an environment. You need to run this script only if the customer modification includes Java code.)

Windows:

```
%SPLEBASE%\bin\buildJavadocsIndex.cmd
```

UNIX:

```
ksh $SPLEBASE/bin/buildJavadocsIndex.sh
```

Configuring the Environment for Batch Processing

See the *Batch Server Administration Guide* for information on configuring the environment for batch processing.

Customizing the Logo

To replace the Oracle Utilities logo on the main menu with another image, put the new image <customer_logo_file>.gif file into the directory $SPLEBASE/etc/conf/root/cm and create a new "External" Navigation Key called CM_logoImage. To do that, run the Oracle Utilities application from the browser with the parameters: http://<hostname>:<port>/cis.jsp?utilities=true&tools=true. From the Admin menu, select Navigation Key. Add the above Navigation Key with its corresponding URL Override path. The syntax for the URL path is:

Windows:

http://<host name>:<port>/<Web Context>/cm/<customer_logo_file>.gif

UNIX:

http://<host name>:<port>/<Web Context>/cm/<customer_logo_file>.gif.

The root directory may be deployed in war file format for runtime environment (SPLApp.war). Use provided utilities to incorporate your cm directory into SPLApp.war file.

WebLogic Production Server Considerations

By default, WebLogic Server is configured with two keystores, to be used for development only. These keystores should not be used in a production environment.

Configuring Identity and Trust

Private keys, digital certificates, and trusted certificate authority certificates establish and verify identity and trust in the WebLogic Server environment. WebLogic Server is configured with a default identity keystore DemoIdentity.jks and a default trust keystore DemoTrust.jks. In addition, WebLogic Server trusts the certificate authorities in the cacerts file in the JDK. This default keystore configuration is appropriate for testing and development purposes. However, these keystores should not be used in a production environment.

To configure identity and trust for a server:

1. Obtain digital certificates, private keys, and trusted CA certificates from the CertGen utility, Sun Microsystem's keytool utility, or a reputable vendor such as Entrust or Verisign. You can also use the digital certificates, private keys, and trusted CA certificates provided by the WebLogic Server kit. The demonstration digital certificates, private keys, and trusted CA certificates should be used in a development environment only.

2. Store the private keys, digital certificates, and trusted CA certificates. Private keys and trusted CA certificates are stored in a keystore.

3. Configure the identity and trust keystores for a WebLogic Server instance on the Configuration: Keystores page.

By default, WebLogic Server is configured with two keystores, to be used for development only.

• DemoIdentity.jks: Contains a demonstration private key for WebLogic Server. This keystore establishes an identity for WebLogic Server.

• DemoTrust.jks: Contains a list of certificate authorities trusted by WebLogic Server. This keystore establishes trust for WebLogic Server.

These keystores are located in the WL_HOME\server\lib directory and the JAVA_HOME\jre\lib\security directory. For testing and development purposes, the keystore configuration is complete. Use the steps in this section to configure identity and trust keystores for production use.

Refer to the WebLogic documentation to configure identity and trust keystores for production use (Secure servers and resources > Configure identity and trust/Set up SSL)

> **Note:** Depending on your choice of implementation you may need to change some configuration files. These files are managed by templates and will be overwritten if the procedures documented in "Customizing Configuration Files" are not followed.

Setting Up an Application Keystore

This section describes how to set up a keystore in your system. The keystore is used for functionality such as digital signatures for document numbers, and encryption for credit card security. The digital signatures features is only appropriate for Oracle Utilities Customer Care and Billing customers who use document numbers in generating bill signatures.

For additional information about document numbers, digital signatures, and encryption, see the online help.

For additional information about using the Java keytool utility, see the following section of the Oracle Java SE documentation:

```
http://docs.oracle.com/javase/7/docs/technotes/tools/solaris/
keytool.html
```

Follow this procedure to set up the keystore in your environment:

1. Generate the keystore. The following command creates the file ".mykeystore" in directory ${SPLEBASE}:

    ```
    keytool -genkeypair -alias <keyalias> -keyalg RSA -sigalg
    SHA256withRSA -keystore ${SPLEBASE}/<filename> -keysize 1024
    -storetype JCEKS -dname "CN=<name>, OU=<unit>, O=<organization>,
    C=<country>" -validity 365
    ```

    For example:

    ```
    keytool -genkeypair -alias ouaf.application -keyalg RSA -sigalg
    SHA256withRSA -keystore ${SPLEBASE}/.mykeystore -keysize 1024
    -storetype JCEKS -dname "CN=Mark Jones, OU=TUGBU, O=Oracle, C=US"
    -validity 365
    ```

    The utility will prompt you for the keystore and key passwords. Make sure that they are the same.

2. Configure the following template files by adding the following entries:

    For WebLogic Server:

    •   To enable in WebLogic, edit the following in ${SPLEBASE}/templates/startWeblogic.sh.template:

        ```
        JAVA_OPTIONS="$JAVA_OPTIONS
        -Dcom.oracle.ouaf.keystore.file=$SPLEBASE/<filename>"

        JAVA_OPTIONS="$JAVA_OPTIONS
        -Dcom.oracle.ouaf.keystore.password=<keystore_password>"
        ```

        For <keystore_password>, use the same password entered in the keytool utility.

    •   To enable this in batch, edit the threadpoolworker.properties.template:

        ```
        com.oracle.ouaf.keystore.file=@force_forward_slash(SPLEBASE)@/
        .mykeystore
        com.oracle.ouaf.keystore.password=<keystore_password>
        ```

        Note: Because the path needs to be passed with forward slashes even on Windows platforms, the force_forward_slash function will convert any "\" to "/".

        For <keystore_password>, use the same password entered in the keytool utility.

    For WebSphere Server:

    •   Create the password file.

```
echo ab987c | tr -d '\n'>$SPLEBASE/.passFile
```

> **Note:** In above command, please replace "ab987c" with your password string.

- Add Keystore entries to spl.properties templates:

  Open each of the five spl.properties templates mentioned below and add the following two lines in each of the templates

  ```
  com.oracle.ouaf.keystore.file=@SPLEBASE@/.mykeystore
  com.oracle.ouaf.keystore.passwordFileName=@force_forward_slash(
  SPLEBASE)@/.passFile
  ```

  List of spl.properties templates (located in ${SPLEBASE}/templates/ folder):

    - spl.properties.iws.template

    - spl.properties.template

    - spl.properties.service.template

    - spl.properties.XAIApp.template

    - spl.properties.standalone.template

3. Re-initialize the environment to propagate these changes by executing the initialSetup.sh/cmd.

4. Restart the environment.

Updating the Hash Column on the User Table

During initial install of the application server, when running install.sh the installer creates both the Oracle Utilities Application Framework system keys and system HMAC keys. In certain situations it is necessary to run the following to update the hashes (the F1_SECURITY_HASH field) on the User table:

Windows:

```
set CLASSPATH=%CLASSPATH%;%SPLEBASE%\splapp\standalone\lib\spl-shared-
4.2.0.2.0.jar;%SPLEBASE%\splapp\standalone\lib\commons-cli-
1.1.jar;%SPLEBASE%\splapp\standalone\lib\log4j-
1.2.17.jar;%SPLEBASE%\splapp\standalone\lib\commons-codec-1.6.jar
```

Unix/Linux:

```
export CLASSPATH=$CLASSPATH:$SPLEBASE/splapp/standalone/lib/spl-
shared-4.2.0.2.0.jar:$SPLEBASE/splapp/standalone/lib/commons-cli-
1.1.jar:$SPLEBASE/splapp/standalone/lib/log4j-1.2.17.jar:$SPLEBASE/
splapp/standalone/lib/commons-codec-1.6.jar
```

Then execute the following:

```
java com.splwg.shared.common.ChangeConfigurationKey -l -h
```

Please refer to the Oracle Utilities Customer Care and Billing Security Guide for more details.

Appendix A

Application Framework Prerequisite Patches

Oracle Utilities Application Framework patches must be installed prior to installing Oracle Utilities Customer Care and Billing. The patches listed below are available as a convenience rollup, CCB-V2.4.0.2.0-FW-PREREQ-MultiPlatform.zip, which is included in the downloaded Media Pack. Please refer to the instructions contained inside the rollup directory for steps to install the patches. The rollup contains the following patches:

Bug Fix	Description
18495142	COPY OF 17944976 - ANALOG CLOCK FACE APPEARS MULTIPLE TIMES WHEN MODIFYING METER
18473816	COPY OF BUG 18261765 - WARNING IN WEBLOGIC STDOUT - "SHOULD BE MARKED AS AUTOCLO
18337995	BATCHEDIT TEMPLATES MISSING @VARIABLES
18017320	COPY IOF BUG 18017295 - COPY OF BUG 18017268 - COPY OF BUG 18017202 - COPY OF BU
17998487	COPY OF BUG 17998475 - COPY OF BUG 17666677 - COPY OF BUG 17460340 - {INFO}IS IT
17992633	ZONES WITH ASIS ARE BROKEN AFTER FW 4.2.0.2.0
17973498	COPY OF 17968704 - TIMED BATCH JOBS THAT ARE IN PROGRESS WITH PENDING THREAD
17948308	BUNDLE IMPORT HEADING IS GETTING TRIMMED WHILE CREATING NEW BUNDLE
17930543	SUPPORT MULTIPLE OPERATIONS IN IWS
17910758	COPY OF BUG 17901801 - DISPLAY MAP RENDERING USING DISPLAY MAP SERVICE SCRIPT IS
17849576	COPY OF BUG 17318042 - CCB V2.4 POP-UP WINDOWS WITH MORE THAT ONE MONITOR
17843874	INFORMATION LIFE CYCLE MANAGEMENT DATABASE AND APPLICATION CHANGES
17802274	COPY OF 17793307 - REINSTATE PREPAREDSTATEMENT API
17782943	TRYING TO SORT COLUMNS IN SERVICE XSL HANDLER ZONES CAUSES ERROR ON PAGE

17717722	COPY OF BUG 17618354 - F1-BOMOINFO SERVICE PICKS ONLY PARENT BO OPTION TYPES AND
17615392	SPLENVIRON.SH -Q PARAMETER DOESN'T SUPPRESS OUTPUT
17597773	COPY OF BUG 17597770 - COPY OF BUG 17263191 - ETM: EXPORT TO EXCEL INQUIRY ON AU
17597598	COPY OF BUG 17560947 - UI HINTS - MAP GENERATION BASED ON PRE-SCRIPT FAILS TO EX
17591437	COPY OF 17591429 DASHBOARD NOT REFRESHED WHEN CONTEXT SENSITIVE ZONE IS EMPTY
17476261	WARNING MESSAGE FOR UNSAVED DATA IS INCONSISTENT
17368315	MDM: NAVIGATION KEY SEARCH BY TYPE IS NOT TRANSLATED.
17335688	MDM: GLOBALCONTEXT NOT GETTING UPDATED.
17302917	DELAY IN LOADING OF DROPDOWNS IN MAPS GENERATED USING UI HINTS
16988199	FILTER MESSAGE DATE IS NOT SHOWING JAPANESE ERA FORMAT
16796398	IN FIREFOX, F1-ENTERBUSINESSOJBECT UI MAP SELECT HAS A DEFAULT VALUE
16555312	F1-LDAP JNDI PASSWORD IS DISPLAYING INTHE LOG FILES
16535383	ABLE TO ADD INVALID ACCESS MODES TO A USER GROUP/ APPLICATION SERVCIE
14041244	IN FIREFOX THE BUTTON IN FILTER UI MAP IS NOT SHOWN AS PER STANDARD
18242229	BUG 17767813 - XAI DYNAMIC UPLOAD SEARCH NOT DISPLAYING DETAILS IN CONTROL CENTR
18220265	COPY OF BUG 18220253 - MWM - ALGORITHM TYPE AND DESCRIPTION DO NOT DISPLAY WHEN
18198530	SF ENVIRONMENTS ARE MISSING FK REF F1-TODO
18186632	COPY OF BUG 18051826 - GETSEVERITY METHOD ALWAYS RETURNS NULL IN CCB V2.4
18164113	CCB CONTROL CENTRAL SEARCH - DO NOT NAVIGATE IF USER NOT AUTHORIZED FOR ACCOUNT
18147812	FK REF HYPERLINK IN UI MAP NOT ABLE TO NAVIGATE USING NAVIGATION OPTION SCRIPT
18141665	FILTER AREA USING INPUT ELEMENT WITH DEFAULTVALUE BUT WITHOUT ID THROWING ERROR
18139433	NULLPOINTEREXCEPTION ERROR WHEN CREATING TO DO ENTRY VIA BS 'F1-ADDTODOENTRY'
18136611	COPY OF BUG 18016233 - PORTAL PERSONALIZATION - SAVING QUERY ZONE PREFERENCES DO

18132851	UI HINT:PROTECT- DATE/TIME AND FKREF PROBLEM ON EDIT
18130703	COPY OF 17583839 - TPW BOOT AS WINDOWS SERVICE
18117209	COPY OF 18098734 - XAI INBOUND SERVICE EXTRACTFAINFO NOT WORKING
18115752	COPY OF BUG 17931048 - ERROR WHEN INVOKING PLUGIN SCRIPT ALGORITHM FROM ALG
18112287	COPY OF 18085864 - RUNNING BATCH JOB F1-STKDF GENERATES SAXPARSER RESET ERROR
18109222	EXTENDABLE LOOKUP - UNABLE TO ADD VALUES
18083939	MASTER CONFIGURATION CHANGES FOR ILM
18078205	COPY OF 18078201 - JAVA THREADS DO NOT CANCEL
18062613	COPY OF 18062597 - CIPZCSTN.DOSQLCLOSE RETURNS ERROR DURING XA000-FINALIZE-SQL-P
18055168	COPY OF BUG 18055152: WEB SERVICE ADAPTER CREATION ERROR
18051717	CCB V24010 - MULTIPLE SYSTEM OVERRIDE DATE WAS ADDED VIA XAI INBOUND SERVICE
18033305	COPY OF BUG 16197111 - OTSS: "TO DO ENTRY" MO SHOULD HAVE FOREIGN KEY REFERENCE
18019745	COPY OF BUG 17831268 - BATCHSCHEDULER IS NOT GETTING STOPPED IN SOLARIS ENV
18017508	COPY OF BUG 17790441 - SEARCH FOR SOME USERS RESULTS IN SERVER ERROR
17998187	COPY OF BUG 17992955 - COPY OF BUG 16537956 - TO DO ENTRY HAS WRONG BATCH RUN NU
17980168	COPY OF 17980142 - MAKE SUBMITBATCH.PROPERTIES.TEMPLATE COMMIT COUNT 10
17971113	COPY OF BUG 17971110 - COPY OF BUG 17971102 - SEND ATTACHMENT THROUGH EMAIL
17952946	ALERT MESSAGE IS DISPLAYING DOUBLE QUOTES AS HTML &QUOT
17950954	CREATE ILM SUBMITTER AND CRAWLER BATCH JOBS
18417428	COPY OF 18417308 - ETM:SEVERAL ISSUES ON DATA GRID SEARCH RESULTS ZONES
18413339	NULLPOINTER EXCEPTION IS THROWN IN SYNCREQUESTUPDATESERVICE
18406240	COPY OF BUG 18078918 - FA RESPONSE TAKES 4 MINUTES TO PROCESS
18394093	JAVASCRIPT FUNCTION UNHIDELISTCOLUMN() IS NOT WORKING AS EXPECTED

18378042	COPY OF 18378035 - ETM:UPON ADDING ENTITY THRU XAI DB FIELDS GET TRUNCATED IF LO
18376516	COPY OF BUG 18315638 - COPY OF BUG 17348026 - AIX: (LOCATION OF ERROR UNKNOWN)DU
18375959	COPY OF 17490361 - VALIDATION ERROR RESOLVED BUT OBJECT STILL IN APPLIED WITH ER
18365321	COPY OF BUG 18365312 - LIST ICON DISPLAYS ON WRONG COLUMN IN QUERY ZONE
18364208	ORG.XML.SAX.SAXNOTRECOGNIZEDEXCEPTION: SECURE-PROCESSING FEATURE
18362779	ILM " RETENTION PERIOD IN DAYS" SHOWING DATA IN WRONG FORMAT
18346736	COPY BUG 18245008 - ER TO CHANGE QUERY FOR TO DO SUMMARY
18335807	COPY OF BUG 18335787 - COPY OF BUG 18173951 - COPY OF BUG 17881075 - COP
18334251	COPY OF BUG 17873194 - ATTACHMENT QUERY PORTAL PROVIDED BY FW RETRIEVES ONLY FW
18300703	GUI SE: TABLE SEARCH BY MO DOES NOT DEFAULT TO MO CODE IN CONTEXT
18291643	COPY OF BUG 18180822 - UNABLE TO BRING UP MWM ENV WITH SSL PORT TURNED ON
18291614	METADATA AND DOC UPDATES
18287159	COPY OF BUG 18125008 IN 2.2 WHEN THERE IS NO DATA THE TAG STILL SHOWED IN XML
18277216	CLIRR: CORRECT API CHANGE IN SERVERMESSAGE
18270274	COPY OF 18270271 - XAI SENDER F1OUTBNDMSG PROCESSES MESSAGES IN WRONG ORDER
18259634	COPY OF 18189984 - FIREFOX BEHAVIOR ON HIDING COLUMNS OF UISUPPORT.JS
18253693	IWS DEPLOY FAILS ON BO WHOSE MAINTENANCE OBJECT IS NOT F1
18253154	NOSUCHFIELDERROR: BATCH_LEVEL_OF_SERVICE_REASON IN 4.2 SP2
18233184	COPY OF BUG 18197798 - CMA FAILS TO EXPORT ENTITIES WITH NULL DURATION VALUES
18233168	COPY BUG OF BUG 17505634 - ETM: 40045C - INFO STRING ON MAINTENANCE MAPS SHOULD
18223615	ZONE SQL IGNORING OPTIONAL PARAMETER
18221507	CHANGE NOTIFICATIONDOWNLOAD_CHANDLER TO SUPPORT SOA PROCESSING METHOD

18204962	COPY BUG 18140377 - THE SYSTEM START UP TIME NEEDS IMPROVEMENT
17517924	HANDLETOUCH METHOD OF JAVAROWPROGRAMHANDLER IS CAUSING DUPLICATE KEY ERROR
18530421	HELPER SCRIPT TO RUN JAVA STANDALONE
18516332	COPY OF BUG 18516324- ALLOW FOR NOT AUTHORIZED ACCESS TO THE SCRIPT MESSAGE OVE
18515432	CONFIGUREENV MENU - CATER FOR CONDITION_JAVA, NEEDED FOR JAVA 1.7
18509871	USER UNABLE TO LOGIN AFTER INITIAL APPLICATION INSTALL
18483566	CLARIFY ALGORITHM AND FIELD FEATURE CONFIGURATION OPTIONS FOR ENCRYPTION
18476044	JS ERROR ENCOUNTERED 'LRUCACHE OBJECT NOT DEFINED' IN CCB 2.4.0 CALC RULE PAGE
18471976	CCB - CRYPTOGRAPHYCOMMAND RETURNS PLAINTEXT PASSWORD WITH INFO LOG TO STD OUTPUT
18466506	GETTING KEYSTORE ISSUE WHILE STARTING MPL
18422248	CCB CONTROL CENTRAL SEARCH - DO NOT NAVIGATE TO NEXT ITEM IF USER NOT AUTHORIZED
18413143	COPY OF BUG 17610713 - ETM: DATABASE IS PERFORMING BAD WITH MORE CONCURRENT USER
18399979	PAGINATION - CRASHING IF PAGING COLUMN IS NOT DISPLAYED
18399934	PAGINATION - NOT WORKING FOR DESCENDING SORT
18386558	PATCHDEPLOY TOOL
18377981	COPY OF 18377975 - OUTBOUND MESSAGE STILL SENT WHEN CLICK CANCEL ON WARNING MESS
18351753	IWS: GETTING NULL POINTER EXCEPTION FOR ANY DELETE OPERATION
18347676	ETM: UPGRADE TO 4.2.0 SP2 CAUSED COMPILATION ERRORS ON MASTERCONFIGURATION_ID
18340470	QUERY ZONE FILTER AREA BACKGROUND COLOR IS LIGHTER THAN NORMAL
18331092	ILM READINESS FOR FW MODS- SERVICETASKS, OUTBOUND MSG, SYNC REQ AND OBJ REV
18330463	SKIP AUDIT EXECUTION IF CHANGE IS RELATED TO ILM SWITCH OR ILM DATE
18288104	NOT MORE THAN 9 DECIMALS ALLOWED IN ZONE
18225471	EXPLORER ZONE - SAVE PREFERENCES NOT RETAINING ADDED / REORDERED COLUMNS

18144536	SIDE ISSUES OF BUG 18083939 - MASTER CONFIGURATION CHANGES FOR ILM
18049320	AUTOTRANSITION AN INDIVIDUAL SYNC REQUEST
14031557	KEYSALLOCATIONBATCHPROCESS & RECORDSLOADBATCHPROCESS

Appendix B

Customer Care and Billing Fixes

This section lists bugs fixed in Oracle Utilities Customer Care and Billing version 2.4.0, including:

Bugs Fixed in Version 2.4.0 Service Pack 2

Bug Fix	Description
6093533	SR# CPER-174# RELAX RESTRICTION ON ADDRESS SOURCE ON START/STOP AND ORDER PAGES
9661233	PAYMENT TENDER SEARCH DOES NOT SUPPORT SEARCH BY CHARACTERISTICS.
15993348	CHANGE BATCH PROGRAMS TO USE THREAD ITERATOR STRATEGY
16048019	C1-OWNED FIELDS SIZE IS SMALL AND RESTRICTION IN USE
16456561	87046 - CCB-MDM: COMPARE RATES ENHANCEMENTS
16475341	{INFO} CCB 2.4.0, BILL PRINT IN BATCH FOR BI PUBLISHER IS NOT YET SUPPORTED
16486538	MAKE DEFAULTING OF ADD ACCOUNT AND START SERVICE SWITCH CONFIGURABLE
16499860	CONVERT CHAR TYPE CUSTOM SEARCH TO DROPDOWN ON MAINTENANCE UI
16832261	F1-SAVEPOINTDISPATCHER RETURNS NULL MESSAGE PARAMETER VALUES
16871134	GO TO APPOINTMENT FROM CCB-FA CONTEXT MENU NAVIGATES TO CCB APPOINTMENT PORTAL
16942759	COMPLETE OPEN TO DOS FOR A BILL WHEN BILL COMPLETED

Bug Fix	Description
17049792	COPY OF 17025416 - PAYMENT TRANSFER CHAR DUPLICATE ISSUE FORM BASED PAYMENT
17088751	11766 - SOM - FIELD ACTIVITY REMARKS
17188898	MODIFY DOCUMAKER CONFIG TO SUPPORT BOTH OLD AND XML BILL EXTRACTS
17329344	SHOW ALL CUSTOMERS IN CONTROL CENTRAL SEARCH REGARDLESS OF ACCESS GROUP
17336363	11769 - SOM - FA COMPLETION AND APPOINTMENT HANDLING OF NON-CCB FA
17349785	CREATE SUMMARY LINE ONLY IF STEPPED CALC RULE RESULTS IN MORE THAN ONE STEP.
17450263	MISPLACED PARAGRAPH IN CIPZNAMN.CBL
17511657	11765 - ITEMS SUPPORT
17531372	10751 - RELATED LEADS ZONE INCORRECT ORDER BY
17550213	ADD OPTION TO ALWAYS CANCEL / REBILL ESTIMATED BILLS AFTER ACTUAL READ
17556303	MOD 11748-SUPPORT ENCRYPTED ID NUMBER SEARCH IN QUERY DATA EXPLORER
17568255	ERROR WHEN CREATING A NEW FA (WFM-SEQ FIELD IS MISSING)
17584792	COPY OF 17006803 - PAYMENT EVENT UPLOAD DOESN'T CATER FOR MULTIPLE PKS IN RULE V
17613438	EDITING DATA ON NON CIS PAYMENT
17621631	CI_BILL_CHAR CLASSIFIED AS UNCLASSIFIED, SHOULD BE TRANSACTION TABLE
17636236	COPY OF 17616247 - UNABLE TO VIEW ALERTS
17641844	11697 - SOM - ADDITIONAL FR ITEMS
17663802	11753 - ILM TRACKING BUG
17761006	COPY OF 17747165 - XAI SERVICE WOULD NOT BE MIGRATED TO PROD ENVIRONMENT WITH TR
17761793	COPY OF 12538597 - SHOULD WAM SERVICE REQUEST COMMENTS BE MAPPED TO CCB FIELD AC
17768151	COPY OF 17750967 - SAME TYPE FA CREATION PROBLEM
17769358	COPY OF 17763270 - NOT ABLE TO BILL ACCOUNT WITH SUB SAS THROUGH BATCH BILLING
17778230	COPY OF 17777505 - DUPLICATE 'STATUS CONDITION' OPTIONS FOR SYNC REQUEST BO
17778278	COPY OF 17432743 - "TOO MANY OPEN CURSORS IN THE REGISTRY" ERROR FOR BATCH CIPPS

Bug Fix	Description
17778313	COPY OF 17318094 - NO ALERT THAT "APPOINTMENT REQUIRED FOR DISPATCH"
17778328	COPY OF 17631203 - BATCH TD-FACT COMPLETED WITH ERRORS CIPZCTJN - SEQ_NUM FIELD
17778353	COPY OF 17627168 - INCORRECT ELIGIBILITY TO PACKAGE IF CAMPAIGN HAS FILE LOCATIO
17782819	COPY OF 17655250 - INCORRECT SERVICE PROVIDER DISPLAYING ON ACCOUNT CONTROL CENT
17784233	USABILITY IMPROVEMENTS - CALC RULE AND CALC GROUP
17784257	USABILITY IMPROVEMENTS - RATE SCHEDULE TREE
17790958	PERSON PORTAL - SELF-SERVICE ZONE SHOULD DISPLAY ONLY NOTIFICATIONS
17793518	SERVICE POINT ITEM HIST SEARCH INSTALL DATE COLUMN IS SHOWING WRONG
17797948	COPY OF 17709480 - LONG TIME FOR SA SCREEN TO POPULATE (INTERVAL METERED CUSTOME
17798097	COPY OF 17657799 - C1FIELDACTIVITYMAINTENANCE XAI INBOUND SERVICE
17814602	CHANGE SYSTEM KEY INHERITANCE TO 3 CHARACTERS FOR ALL TABLES
17820364	A/P REQUEST TYPE ALLOWS A NULL A/P REQUEST TYPE TO BE ENTERED AND SAVED.
17821169	ACCOUNT MANAGMENT GROUP ALLOWS ADDITIION OF A RECORD WITHOUT A DESCRIPTION
17823699	PERSON CHARACTERISTIC FUTURE DATED DO NOT DISPLAY IN CUSTOMER INFORMATION ZONE
17837456	COPY OF 17789505 - METER READ: NO WARNING FOR DUPLICATE FA WHEN CLICKING REREAD
17842207	COPY OF 17842246 - APPLICATION NOT PROPERLY RELEASING THE SOCKETS
17842223	COPY OF 17740730 - BILL COMPL ALGORITHMS SHOULD NOT BE TRIGGERED IF BILL SEGMENT
17842232	COPY OF 17762114 - CLASS CAST EXCEPTION BETWEEN INSTALLATION AND ADJ TYPE ADJ IN
17844751	COPY OF 17736089 - AVOID CREATING TODO IN C1-PEPL2 - ENHANCE DUP CHECK
17844785	COPY OF 17793255 - DATA DIFFERENCE IS NOT CREATED FOR INITIATIVE CRITERIA
17844790	COPY OF 17799887 - 11747 - SET COMPARE METHOD OF TABLES WITH CLOB FIELD TO LARGE

Bug Fix	Description
17844811	COPY OF 17809975 - TO DO TYPE CHARACTERISTIC TYPES HAVE SAME DESCRIPTION
17861069	COPY OF 17855303 - OFFCYCLE BILL GENERATOR ERROR EVEN THOUGH SA IS NOT BILL DETE
17861109	11771 - CSS-CCB: SERVICE CHARGES-TO-DATE
17861165	SOM-INCORRECT DISPLAY OF DEVICE CONFIG OVERVIEW IN CCB
17866262	COPY OF 17863556 - BILLABLE CHARGE - CALCULATED RATE COMPONENT ISSUE - PRODUCT S
17883946	ACCOUNT AUTOPAY IS NOT BEING CANCELLED WHEN CANCELLATION IS DONE THRU CSS
17905427	WRONG LABEL FONT ON TENDER CANCEL MAP
17918054	V2 RATE ENGINE - EXTENDING FIELD LENGTH OF STEP HIGH AND LOW VALUES
17931126	COPY OF 17867695 - XSD FOR POSTROUT BATCH GENERATED XML
17944522	COPY OF 17867681 - MULTIPLE TO DO ENTRIES CREATED BY TD-MODTL BATCH
17946175	COPY OF 17866288 - CONTROL CENTRAL PORTALS/ZONES HAVE NO DATA WHEN COMING FROM P
17946823	PAY PLAN SEARCH RESULTS ORDER
17951175	FORMULA SCALAR VARIABLES DESIGNATED AS VN SAVED IN LOWER CASE CAUSE ERROR
17983132	MESSAGE DOES NOT MENTION ITEM
18025658	COPY OF 18025304 - SA ARREARS SNAPSHOT (EXTSAARS) EXTRACT FAILED TO LOAD INTO DW
18029753	CREATE NDS RECORDS WITH SOA PROCESSING METHOD
18038794	COPY OF 18012909 - TURNING OFF MODULES IN FEATURE CONFIGURATION AFFECTS ESSENTIA
18050247	COPY OF 17911664 - AUTO PAY DOES NOT WORK PROPERLY WITH PAY PLANS
18051129	COPY OF 18051124 - DUPLICATE KEY ERROR ON FA UPLOAD STAGING
18054823	WHEN FA IS CREATED IN CCB THE EXTERNAL ID DOES NOT POPULATE FOR 5-15 MINUTES
18056341	COPY OF 17422745 - TAX EXEMPTION ON FINAL BILLS NOT APPLIED WHEN PROCESSING DAT
18056358	COPY OF 17809047 - WHEN CREATING A DEVICE TEST SELECTION, ERROR "TOO MANY OPEN C

Bug Fix	Description
18056369	COPY OF 17929123 - C1FACOMPLETIONEXTSYSSTRUCT (CIPOFCEP) XAI INBOUND SERVICE BUG
18063081	REFERENTIAL INTEGRITY ERROR MESSAGE IS MISSING FOR TOS CANCEL REASON
18063279	BI PUB 11.1.1.7.131017 / CCB 2.4.0 SP1 RU DEC 2013 - REPORT LOGO NOT SHOWING UP
18071902	CHANGE ELEMENT NAME IN INBOUND FA COMPLETION
18085701	COPY OF 17861620 - REMOVE CODE ENABLING CTI-IVR ICON ON NON-FUSION TOOLBAR
18140085	COPY OF 17907462 - PREMISE TREE TAB ON CONTROL CENTRAL TRUNCATES AT MID-SCREEN
18147616	COPY OF 18083687 - 100% TAX EXEMPT AMT CALCULATED AS EITHER 0.01 OR -0.01 DEPEND
18155396	GLASSIGN REPORTS MORE RECORDS PROCESSED THAN ARE
18162568	COPY OF 18161186 - WHEN ADDING NEGATIVE PAYMENT VIA PAY EVENT QUICK ADD PRINT DI
18162821	COPY OF 18152768 - MIGRATION DATA SET IMPORT WITH METERREADSCHEDULE OBJECT CANNO
18177493	COPY OF 18140294 - CREDIT &COLLECTION: ADM2 BATCH ERROR FOR COLLECTION CLASS CON
18184773	BILL FACTOR DETAILS NOT SHOWING UNDER SA RATE TREE FOR V2 RATES
18191495	COPY OF 17959468 - CCB 2.4.0.1 - CONTROL CENTRAL SEARCH FOR PERSON ID TYPE SHOWS
18201326	DEFAULTTABLEAUDITOR FAILS FOR DFLT_HIGH_BILL_AMT COLUMN OF CI_SA_TYPE TABLE
18241781	COPY OF 18188959 - FIELD ACTIVITY IS CREATED WITHOUT ERROR ON SP TYPE WHICH IS N
18244791	COPY OF 17799132 - BSEG CALC HEADER START DT ISSUE WITH BILLING DETERMINANTS AND
18244801	COPY OF 17811769 - UNABLE TO DELETE A NON REQUIRED CHARACTERISTIC ON A CONTRACT
18244821	COPY OF 17980180 - REBILLING BILL SEGMENTS IN CCB-MDM INTG ENV FAILS AFTER APPLY
18244835	COPY OF 18084104 - CONFIGLAB COMPARE JOB ASSIGNS ALPHA-NUMERIC VALUE TO ROOT_OBJ
18244862	COPY OF 18162412 - (CCB-MDM) BILL SEGMENT SQ DETAILS SHOWING INCORRECT VALUE
18244903	COPY OF 17884893 - BATCH BILLING NOT WORKING - POSSIBLE ENDLESS LOOP DETECTED IN

Bug Fix	Description
18244928	COPY OF 18042501 - CANNOT UPLOAD PAYMENT TENDER AND DEPOSIT CONTROL THROUGH STAG
18244938	COPY OF 18054935 - R144 - SEVERANCE PROCESS CREATED FOR RECONNECT WHEN PAY PLAN
18244946	COPY OF 18058774 - SET UOM DECIMAL TO 0, SMALL METER READ NUMBER WILL BE MISSED
18247907	MAINTENANCE OBJECT METER READ IS NOT CERTIFIED FOR ACTION ADD
18262246	COPY OF 18242561 - "LOW/HIGH VALUES OF STEPS MUST NOT OVERLAP" ERROR IN STEPPED
18264384	NULLPOINTEREXCEPTION ERROR WHEN CREATING TO DO ENTRY VIA BS 'F1-ADDTODOENTRY'
18278002	11753 - ILM ARCHIVE SWITCH NULL FIELD INVALID
18278332	11769 - PREMISE ACTIVITY OVERVIEW DISPLAYING ERROR CONSTRAINT
18284830	11753 - ILM CHANGES FOR USAGE AND MR MOS
18284833	COPY OF 18085922 - CCB PRODUCE ERROR WHILE BILLING CUSTOMER WITH METER READING L
18286339	COPY OF 18284285 - FIELD ACTIVITY COMPLETION IS NOT UPDATING METER LOCATION CODE
18301602	11769 PREMISE ACTIVITY OVERVIEW SHOULD BE HIDDEN IF SOM WAS NOT SETUP
18302001	COPY OF 17924815 - SYSTEM ERROR IS DISPLAYED WHEN TRYING TO COMPLETE A PENDING O
18303070	11766 - INCORRECT DISPLAY OF FA REMARK DESCRIPTION IN SERVICE TASK MAINTENANCE
18304859	11766-SYSTEM ERROR IN FA REMARK SERVICE TASK LOG
18307855	11753 - ILM MO'S CASE/BILL CHG IMPLEMENTED WITH RET PERIOD OPTION TYPE
18311358	RELATED PERSONS OF AN ACCOUNT MUST BE RETRIEVED IN WXINVITEPERSONLIST SERVICE
18317336	REVERT COLUMN BACK TO ADJUSTMENT TO ADJUSTMENT ID
18324406	11753 ILM – ILM DATE FIELD IS "NULL" FOR ADDED NEW USAGE RECORD
18334437	SYNC REQUEST SEARCH BY BADGE NUMBER IS NOT WORKING
18353885	11753 ILM - MO OPTIONS FOR FA INCLUDE A PREDEFINED ILM RETENTION PERIOD BASE VAL
18355327	11753 - BILLABLE CHARGE READ DETAIL UI PAGE MISSING METER CONFIG ID AFTER ARCHIV

Bug Fix	Description
18355497	11766 - FA REMARK ACTIVACTION CREATE TO DO ALGORITHM - ADD SERVICE TASK MO LOG
18355669	11766 - ADD HANDLING FOR FA REMARK CODES FROM SOM THAT ARE MORE THAN 12 CHARS
18355975	COPY OF 17029706 - CONFIGLAB PROCESS DOES NOT PRODUCE LOG WITH NON-ASCII CHARACT
18361378	11753 - ILM - ADD ENTITY ID FOR METER READ,BILLABLE CHARGE INFO ROUTINES.
18361519	COPY OF 18359316 - IMPROVE PERFORMANCE OF SEARCH PAGES USING ENCRYPTED FIELDS
18362945	11753 ILM - BILLABLE CHARGE SHOULD BE ALSO ARCHIVED FROM BILL ELIGIBILITY ALG
18365502	11766-FA REMARK SERVICE TASK LOG ADDED A MESSAGE EVEN IF THERE'S NO UPDATE DONE
18368322	11753 ILM – CAN NOT ADD NEW STATEMENT RECORD DUE TO ILM SWITCH ERROR
18370239	REMOVE SP ID FROM FIELDACTIVITYSTEPSPAGE
18373181	UPGRADE CCB FORTIFY TO V4.0
18376197	GETTING NULLPOINTEREXCEPTION WHILE STARTING IBM AIX WAS8.5.5 ENVIRONMENT
18376724	ADD FIELD TO INDEX XT265S4 ON CI_PAY_TNDR
18377913	MODIFY ALGORITHM C1-FA-PDTSY (FACHECKFORDATASYNCHREQUESTALGCOMP)
18378105	11753 ILM - FIELD MISSING ERROR ENCOUNTERED WHEN DELETING A STATEMENT
18378181	11753 ILM - CREATE A NEW SERVICE TO UPDATE THE ILM FIELDS
18384090	COPY OF 18379320 - SERVICE ROUTE ALTERNATE SEARCH FAILED ON SP MAIN PAGE
18384224	COPY OF 18253222 - INITIATE STOP SA OVERRIDE SA SP END DATE/TIME AFTER CHANGE HA
18384669	11766 - REMOVE SOM FA REMARK DESC AND MOVE ADDRESS FIELDS IN THE SVC TASK BO
18387325	11765 - BILLING OF SOM BASED SAS WITH MULTIPLE ITEMS THROWS DUPLICATE KEY ERROR
18388040	11765 -WHEN SP HAS NO ITEMS NOR DEVICES IN MDM, SP PORTAL STILL DISPLAYS HEADERS
18392732	11753 ILM - DO NOT ALLOW UPDATES ON A MATCH EVENT WITH ARCHIVE_SW SET TO 'Y'
18393169	COPY OF 18276653 - BILL SEGMENT ERROR - SYSTEM ERROR

Bug Fix	Description
18401530	11753 ILM - REMOVE THE SP CONTEXT MENU FROM SEV EVENT FA PAGE IF THERE IS NO SP
18401778	11765 - WHEN BILLING BD SA WITH BADGED ITEM SYSTEM THROWS AN ERROR
18401999	11767 - SOM - CANCEL FA PREVENTION - REMOVE CUSTOM AREA IN REQ
18405465	COPY OF 18386966 - IMPROVEMENT ON RECOMMEND BUDGET (CIPGCBHX)
18405652	SQL ERROR CODE 000004098 OCCURRED IN MODULE CIPCACCR:XQ040 CHANGE
18406719	RATE ENGINE USABILITY - FUNCTIONAL REVIEW
18410278	FIELD PRECISION INCONSISTENCIES IN CICCLPRT-CICCLXDF
18412380	FIELD ACTIVITY CANCELLATION BY ONLINE USER
18413013	DETERMINE BF VALUE REFERENCE DATE - INCLUDE BILL ID
18415258	PK VALUE IS NOT DISPLAYED ON FK VALIDATION DETAILS
18416038	11765 - SP PORTAL IS UNABLE TO DISPLAY MULTI-ITEMS
18420871	SET 5 CCB QA DOES NOT SEND OUT ONLINE BD REQUEST MESSAGE
18421507	11753 - BATCH PGMS NOT PROPERLY SETTING ILM_ARCH_SW TO 'N', BLANK INSTEAD
18421858	11769-CHAR TYPE/VALUE (SERVICE TASK ID) IS BLANK IN CUSTOMER CONTACT
18422985	<CLBDSYNC ERROR>: ERROR OCCURRED IN DECRYPTING... - NO SUCH METHOD "MAIN"
18423241	ILM_DT AND ILM_ARCH_SW WERE NOT COPIED TO PRODUCTION
18429327	COPY OF 18419613 - EMPTY BILLCALCULATIONLINECHARACTERISTICDATA DOES NOT OVERRIDE
18435792	COPY OF 18431965 - BATCH JOB C1-CTIDS HAS BATCH RUN ERRORS
18435921	11753 ILM - MATCH EVENT ELIGIBILITY CHANGES FROM FUNCTIONAL REVIEW
18442748	CALC RULE ZONE DOES NOT DISPLAY WHEN RULE HAS A CHAR WITH BRACKET IN THE DESC
18453823	SCRIPT TO DEPRECATE TABLES ADDED IN 2.4.0.0.0 AND DELETED IN 2.4.0.1.0
18457258 -	<CLBDSYNC ERROR>: COULDN'T CONNECT TO THE DB.ORA-01017: INVALID USERNAME/PW

Bug Fix	Description
18470657	COPY OF 18462120 - INVALID START READ DATE/TIME ERRORS IN BASE BILL PRINT EXTRA
18472145	11765-MULTI-ITEM OVERVIEW ZONE DISPLAY EVEN IF NO DETAILS FROM MDM RECEIVED
18477987	REPLACE COMP-5 WITH COMP ON CCB PROGRAMS
18478086	DELETING DUPLICATE LEVEL-88 FIELD INS-ALG-ENTITY-ONBD IN CICTIAE8.CBL
18478116	DOUBLE KEYWORD PERFORM IN CIPMMRDP
18478312	COMPUTE + + IN CIPZRNDG
18478356	INVALID USER EXIT ENTRY IN CIPPPYCL
18479282	MISSING CROSS REFERENCES ON RATES V2
18484710	EXTRA PARAGRAPH IN CIPCCSCP
18485547	EXTRA PARAGRAPH IN CIPTDCER
18485602	LINE LONGER THAN 72 CHARS IN CICBBCCC
18485612	CIPTSTBL - EXTRA TBCTR FIELD IN MOVE STATEMENT
18485635	DUPLICATE PARAGRAPH IN VARIOUS PROGRAMS
18485644	LINE CONTENT EXCEEDS 72 CHARS
18485652	NESTED/ORPHANED USER EXIT IN CIPQCAAN
18489079	WXBUDGETDETAILS SERVICE DOES NOT RETURN VALUE FOR MONTHSFORTRUEUP
18492745	SRCH_CHAR_VAL - CHANGE DEFINITION FROM CHAR TO VARCHAR
18493448	MISSING $#BSES* CHANGE-HISTORY
18493464	PERFORM ENDING IN CIPADVHX
18493475	$#BSES* INSTEAD OF $#BSEE*
18493496	COPYBOOK NAME ENCLODED IN QUOTES IN CIPMSMHP
18493533	MISSING PERIOD AFTER COPY CICZCLSN IN VARIOUS PROGRAMS
18493536	11765 - ITEMS SUPPORT - FR ISSUES
18507521	COPY OF 18467026 - OCBG TO DO NOT UPDATING ACCOUNT CONTEXT ON THE DASHBOARD
18508831	UNABLE TO COPY METER READ IN CL DUE TO INVALID ILM_ARCH_SW
18509454	COPY OF BUG 18199757 - V2 RATE ENGINE EXPOSE HELPER CLASSES - APPLY FLAT CHARGE
18514183	COPY OF 18427565 - PPM BATCH JOB FAILING WITH COMMIT WORK ERROR

Bug Fix	Description
18514195	COPY OF 18412076 - BILL INTERCEPT FIELD IS NOT COMING AS PART OF POSTROUT BILL E
18514201	COPY OF 17836248 - DIFFERENCE BETWEEN 'COMPLETE' ON FA SCREEN AND 'COMPLETE' ON
18522038	COPY OF 18270677 - WRONG DATE FORMAT IN A FRENCH SESSION ON THE ERROR MESSAGE OF
18522109	COPY OF 18242864 - BILL ID MISSING WHEN NAVIGATING TO BILL PAGE FROM "FINANCIAL
18531347	CSS - AUDIT
18545161	COPY OF 18543275 - AFTER INSTALLING PATCH 18275116, TIMEOUTS ARE STILL EXPERIE
18560318	11753 - ILM INITIATOR - DEADLOCK IN BILL & BILL SEGMENT CRAWLERS
18591384	SYSTEM ERROR WHEN USING RATE SCHED V2 ON RATE CHECK

Bugs Fixed in Version 2.4.0 Service Pack 1

Bug Fix	Description
10142693	COPY OF 10053542 - CIPBFBAX - TABLE ACCESSED USING NON-INDEXED COLUMN
11901987	INSTALLING SAMPLE REPORTS STORED PROCEDURES
13921583	COPY OF 13486155 - CONFIGLAB DOES NOT RAISE ERROR WHEN MIGRATING CASE STATUS ALG
14551740	11740 ELECTRIC VEHICLE BILLING FR ISSUES
14674286	NSRD DATE BLANK RESULTS IN NULL POINTER ON USAGEREQUESTUPDATE
14684873	COPY OF 14262196 - CM OCBG - CORRECTED READ BO TRANSITION ISSUE
14684881	COPY OF 14497570 - CANNOT ADD FK CHARACTERISTICS IN METER CONFIGURATION PAGE
14684884	COPY OF 14515167 - REMOVE DISPLAY STATEMENT IN REGISTER READ ROW MAINT (CIPMRGRR
14684889	COPY OF 14561686 - FACOMPL ERROR MESSAGE NOT BEING POPULATED CORRECTLY
14684893	COPY OF 14595996 - BI: CCB EXTRACT- ISSUE IN POPULATING REL_TODOS_CNT FOR TO DO
14684895	COPY OF 14612243 - ERROR SAVING A ZERO TOTAL ADJUSTMENT AMOUNT IN ADJUSTMENT CON
14746866	BUTTONS ON UI MAP ARE LEFT-JUSTIFIED AFTER FW UPGRADE
14750369	COPY OF 14659699 - AFTER APPLYING PATCH 14604647 BATCH JOB IS STUCK IN PENDING I
14751382	COPY OF 14659703 - CANCEL REBILL IN V2_3 DOESNT TICK REBILLED BS FT AS A COR
14755167	CORRECTED READ NOTIFICATION NOT TRANSITIONED TO COMPLETE STATE AFTER RECIEVING T
14762728	COPY OF 12745066 - C1-ADMOV RAISED A SEVERE - CIPZCTJN - SYSTEM ERROR.
14762735	COPY OF 14644331 - REMOVE VALIDATION FOR ZERO DISTRIBUTION RULE AMOUNTS ON PAYME
14766316	LOCALIZATION - INCORRECT DISPLAY OF NEGATIVE VALUES AND DATE FORMAT
14793493	COPY OF BUG 14616555 - ROUNDING ERRORS IN CALCULATIONS
14802135	ADD FOREIGN KEY CONSTRAINT TO C1_USER_TNDR_SRCE
14802756	COPY OF 14346747 - CIPBCONC - CHANGE WARNING CRITERIA

Bug Fix	Description
14810192	GO TO RATE COMPONENT CLASSIC - SEARCH PAGE NOT DISPLAYING RATE COMPONENTS-V1 RS
14823292	USE THE BILL FACTOR CHAR TYPE/VALUE TO GET BF VALUE FOR ALTERNATE PAY CURRENCY
14830282	MOD 11747 - CALC RULE AND RATE SCHEDULE ISSUES
14830397	MOD 11747 - RATE ENGINE HELPER DESCRIPTION IS INCORRECT
14846658	ADD THE FW SEARCH BY SYNC REQ ID QUERY ZONE TO THE CCB SYNC REQ QUERY PORTAL
14846722	JAVA BILL SEGMENT INFO ALGO DOES NOT RETURN AN INFO STRING FOR PPB BILL SEGMENT
14846734	10412 - PPB BILL SEGMENTS GRAPH SHOWS FIRST 10 BS, NOT THE 10 MOST RECENT
14851361	10412 - CATCH POSSIBLE ERRORS WHEN FREEZING BS IN PPB ALGORITHM
14851888	10412 - SECTIONS IN THE RIGHT COLUMN OF PPB TASK DISPLAY MAP SHIFTS ON RESIZE
15833420	MOD 11670 - OLD RATE CHECK PAGE ISSUE
15833824	10412 - ERROR WHEN FREEZING AN ADJ FOR A NON-PPB SA
15834153	10412 - PPB AUTOPAY TO BE DISTRIBUTED ALERT IS DISPLAYED IN FINANCIAL INFO ZONE
15838474	COPY OF 15838358 - ALGORITHM TO CREATE TUM,SUB SA FOR NEXT TRUE UP PERIOD NEEDS
15838488	COPY OF 15838330 - C1-C0-NOGL ALGORITHM CALCULATION OF TOTAL AMOUNT SHOULD BE CH
15846328	MOD 11747 - %V SUBSTITUTION NOT WORKING THE SAME FOR ALL CALC RULES
15849925	COPY OF 14622138 - START METHOD ALGORITHM - CREATE SP AND SA BASE ALGORITHM IS C
15849928	COPY OF 14743884 - PROBLEM TO USE RATECOMPONENTCRITERIAFIELDALGORITHMSPOT
15849934	COPY OF 14793928 - WIN_START_DT NOT POPULATED IN BILLS COMPLETED BY BATCH
15851323	MOD 11747 - CHARACTERISTIC COLLECTION ON REFERRED CALC GROUP RULE IS NOT WORKING
15857235	REOPEN BUTTON DISABLED
15867122	COPY OF 15831357 - CLASSCASTEXCEPTION IN NBB RECOMMENDATION RULE AVERAGE ALGORIT
15878619	TOU GROUP FK HYPERLINK ON TOU MAP TEMPLATE MAP LEADS TO SEARCH PAGE

Bug Fix	Description
15881046	COPY OF 14809727 - MOD 11165 -JS ERROR ENCOUNTERED WHEN LOADING ACCT MGT PORTAL
15881111	ADJUSTMENT CALC LINE GRID ALIGNMENT ISSUE - APPEARS IN SUMMARY COLUMN
15881160	COPY OF 14827253 - CSS2-PORTAL-UNABLE TO SUBMIT ONE TIME PAYMENT IN OUCSS
15881167	COPY OF 14802743 - MOD 11747 - BSEG LINES NOT GEN'D - PM=ACCT DATE AND ACCT DATE
15881615	REMOVE UNNECESSARY DISPLAY STATEMENTS
15882892	WSS FIELDS - COLLAPSE THE FIELD WEB ACCESS FROM ACCOUNT/PERSONS TAB.
15897689	COPY OF 15868336 - CCB 2.3.1- BI BILLED USAGE FACT WRONG BILL DATE EXTRACTED
15897699	COPY OF 15837997 - CASH ACCOUNTING ADJUSTMENT CREATION ALGORITHM SETTING THE SHO
15897704	COPY OF 14843572 - BUDGETS NOT PRORATING - ONLY BILLING FOR ONE MONTH WHEN BILLI
15897707	COPY OF 14752085 - TO CASE STATUS ON THE LOG SHOULD BE STAMPED ON THE CLOG FLAT
15897711	COPY OF 14746445 - INCORRECT COLLECTION PROCESS TEMPLATE ON EXTRACT FILE FOR EXT
15897718	COPY OF 14729876 - ADDRESS EXTRACT - CITY VALUE NOT IN UPPER CASE
15897736	COPY OF 14688010 - AFTER APPLYING PATCH 14352927 GOT ERROR WHEN APPLYING SOME CO
15897750	COPY OF 13820457 - EXTRACTS FOR BI NOT GETTING ALL CHANGE LOGS IN CI_CHG_LOG FO
15956492	MOD 11747 - CALC RULE CALC SERVICE QTY UI MAINT MAP ISSUE WITH MVA FIELD
15972569	COPY OF 14466903 - FA COMPLETION ZONE IS ALWAYS VISIBILE ON THE FA PAGE
15972574	COPY OF 14668296 - PATCH 12999534 DID NOT RESOLVE ISSUE WITH NEGATIVE ADJUSTMENT
15972579	COPY OF 14705800 - BATCH JOB TREND REQUIRES TO DO ROLE TO CREATE A TO DO
15972585	COPY OF 14706919 - COLLECTION PROCESS EXTRACTING THE INCORRECT COLLECTION ARREAR
15972602	COPY OF 14751181 - CIPOADB DOES NOT BREAK ON SCHEDULE DATE BUT HELP DOCUMENT STA
15972609	COPY OF 14782380 - AFTER INSTALLED PATCH 14526215, SEE SQL ERROR CODE OCCURRED I

Bug Fix	Description
15972628	COPY OF 14840461 - EXTRACTFAINFO CILOEFIP DOES NOT RETURN BOTH ACCOUNTS IN BACK-
15972699	COPY OF 15851041 - METER READ STEP TYPE PROCESSING DOES NOT CONSIDER FLAGS
15972703	COPY OF 15904426 - ERROR ON USAGE PERIOD FOR USAGE REQUEST WHEN FINAL BILLING AN
15972706	COPY OF 15948996 - PAYMENT EVENT PAYMENT GRID USER EXIT ISSUE
15976796	COPY OF 14739809 - SELF-SERVICE INTEGRATION MASTER CONFIGURATION HANGS
15977180	COPY OF 14782484 - {INFO} WHY THE CILBCRNP SERVICE DOES NOT SUPPORT DEFAULTING P
16013490	COPY OF 15973977 - BUD_PLAN_CD RESET IN CI_ACCT WHEN OVERPAYMENT KEPT ON ONE TIM
16015557	THE READ DATE FIELD IN TREND MAINTENANCE PAGE IS DISABLED WHEN RECORD IS ALREADY
16017382	COPY OF 13997048 - CORRECTION NOTES FOR PERCEPTION
16017392	COPY OF 14623724 - COLUMN AMBIGUOUSLY DEFINED ERROR WITH CONFIGLAB
16017400	COPY OF 14744224 - RATE CHECK PAGE IS NOW REQUIRING AN OPTIONAL FIELD(SA ID) AFT
16017404	COPY OF 15930176 - INDEXES ON CI_USAGE
16019828	CONVERT RATE ENGINE UI MAPS TO USE UI HINTS
16031296	COPY OF 16006280 - ISSUE WITH DUPLICATE ACTION
16046195	COPY OF 16035840 - WX-RLSTPAY ZONE DOES NOT RETURN THE PAYMENT AMOUNT VALUES
16067561	COPY OF 14681614 - ALLOW CCB READ BOS FOR MDM2 INTEGRATION TO OUTPUT EMPTY ELEME
16067568	COPY OF 15856244 - CHANGE THE BILLABLE CHARGE TEMPLATE
16074156	COPY OF 15921165 - CIPHFGLB - KEEP OLD FORMAT OF STATISTICAL AMOUNT
16093961	COPY OF BUG 15962754 - TRUNCATED ERROR MESSAGE (RELATED TO BUG 14598223)
16164679	PROBLEM WITH CCB V2.4.0 BO (CI_SERVICEPOINTAUDIT) CANNOT CREATE SERVICE POINT
16166755	COPY OF 14778502 - WHAT'S THE CAUSE OF ¿A REQUEST IN WAIT FOR RESPONSE STATUS EX
16166758	COPY OF 15986132 - PREMISE TREE NOT POPULATING

Bug Fix	Description
16166775	COPY OF 15947485 - CCB 2.1.0 - AUDIT LOGS NOT CREATED FOR RATE VERSION MERGE
16166788	COPY OF 14748139 - TEST MODE IS NOT WORKING WHILE RUNNING BATCH JOB CI_ARCBI CIP
16166792	COPY OF 15991477 - PATCH 15948996 DID NOT RESOLVE INABILITY TO DELETE ROWS FROM
16166800	COPY OF 16014697 - SYSTEM SHOULD NOT ALLOW GENERATE A CORRECTION NOTE FROM AN OF
16206702	NEW COUNTRY ADDRESS CANNOT BE SHOWN IN PREMISE CORRECTLY ON 2.4.0 CCB
16229506	AN ALGORITHM (ATTACHED TO ALGORITHM TYPE CCAL-FAERMSG) DOES NOT PROPERLY DISPLAY
16239698	NULL POINTER EXCEPTION IN ITEM TYPE V2 RULE WHEN ITEM HAS NO UOM
16262522	COPY OF BUG 16412611 - CUSTOMER CONTACT PAGE NO LONGER DEFAULT EMAIL ADDRRES WHE
16265635	COPY OF BUG 16236520 - METER STOCK LOCATION INVENTORY SCREEN UNUSABLE
16269368	SEASONAL UI MAPS DISPLAYING UNNECESSARY SCOLL BAR
16270782	COPY OF 15837342 - SUMMARY ACCT BILLING WITH MDM - CREATING ADDITONAL BSEG IN SA
16279927	COPY OF 16203040 - ARCHIVING PROCESS AR-DCDT RUNNING VERY SLOW
16280852	11752 SEPA FILE LAYOUTS
16352794	FIELD "NON-BILLABLE BUDGET MONITORING" MISSING IN CCB 2.4
16358094	MISSING PHYSICAL PRIMARY KEY CONSTRAINT
16362226	COPY OF 14036807 - LAST METER READ DATE IS NOT ACCURATE ON THE PREMISE INFORMATI
16362229	COPY OF 15955246 - OFF CYCLE BILL GENERATOR (OCBG) PICKS UP UN-SELECTED ADJUSTME
16362235	COPY OF 15965627 - UNEXPECTED SQL ERROR 9994 RAISED BY STANDARD MRRCREAM ALGORIT
16362240	COPY OF 15972123 - SUBSTR FUNCTION CAUSES TIMEOUT IN CIPPMBSL QUERY
16362243	COPY OF 16048200 - ISSUES WHEN REINSTATING A SERVICE AGREEMENT
16362248	COPY OF 16316973 - 'OUTBOUND MESSAGE CREATION FAILED' WARNING MESSAGE APPEARS WH
16362250	COPY OF 16290178 - ISSUE WITH PAYMENT DISTRIBUTION

Bug Fix	Description
16362252	COPY OF 16285341 - EXTSAARS ISSUE WITH COMPUTING ARREARS
16362254	COPY OF 16276988 - NON CIS PAYMENT CANCELLATION FT ASSIGNED WRONG GL ACCOUNT
16362256	COPY OF 16224881 - C1-BLCMP NOT COMPLETING CLOSING BILL BECAUSE OF BILL CYCLE MI
16362258	COPY OF 16215620 - ABLE TO DUPLICATE READS ONLINE ON METER READ PAGE
16362261	COPY OF 16198223 - SA RATE INFO TAB DOES NOT HANDLE MORE THAN 100 BILL FACTOR
16362265	COPY OF 16196803 - READ HISTORY PAGE UNCONSISTENT WHEN USING NEGATIVE CONSUMPTIO
16362268	COPY OF 16195668 - BUG IN THE C1-RC-CLAMT (SUM CALC LINE AMOUNTS) ALGORITHM TYPE
16362271	COPY OF 16187760 - ADD VALIDATION FOR DISABLE CORRECTION NOTE FOR OFF CYCLE BILL
16362276	COPY OF 16184797 - LOAN SA WON'T CLOSE
16362279	COPY OF 16171261 - BUG C1-PEPL3 PROCESS WHEN A TENDER CONTROL IS NOT BALANCE
16366277	TREND AREA ISSUE IN CCB VERSION 2.4
16375067	CC&B V2.4: CALCULATION RULE STEPPED SERVICE QUANTITY RETRIEVING 0 USAGE
16390092	CALCULATION RULE ADD ISSUE
16397773	COPY OF 16229903 - TWO PENDING BILLS FOR THE SAME ACCOUNT
16398220	COPY OF 16383677 - 'BAD DATA' IN DESCRIPTION FIELD OF THE CI_SCR_STEP_L TABLE
16405477	FIX FINAL BILL HANDLING FOR NEM
16405664	EVALUATE VALID CONDITIONS FOR WHEN NO DATA IS RETURNED TO CSS
16405973	COPY OF 16405928 - ADD A NEW SERVICE TO RETRIEVE SAS EFFECTIVE ITEMS
16434225	NUMERIC OVERFLOW ENCOUNTERED WHEN USING RATE CHECK FUNCTION - ADJUST USAGE
16441287	PHYSICAL/BUNDLING BOS MARKED AS INSTANTIABLE
16470923	COPY OF 16311344 - AFTER APPLYING PATCH 15947485 - AUDIT LOGS NOT CREATED FOR R
16470949	COPY OF 16296456 - END BILL SEGMENTS WITHOUT CLOSING FLAG

Bug Fix	Description
16470969	COPY OF 14049741 - STOP SA ALGORITHMS ON A DEPOSIT SA TYPE ARE NOT TRIGGERED
16470980	COPY OF 14102223 - OM02463;MEDIUM;CONFIGLAB: CASE LOG - DATA DIFF INFO - CLBDSYN
16471151	COPY OF 15995022 - SAVEPOINT ISSUE WHILE RUNNING CASETRAN BATCH
16471155	COPY OF 16263025 - ERROR WHEN TRYING TO ADD A PAYMENT IN THE PAYMENT PORTAL
16471162	COPY OF 16324927 - ERROR EXISTING SAVEPOINT BY NAME CREATEUSAGEREQUEST
16471789	COPY OF 16389061 - CONTROL CENTRAL ACCOUNT SEARCH FAILS WHEN ACCOUNT NOT LINKED
16471800	COPY OF 16396020 - THE FT DATA ARE NOT CORRECT WITH A XFER ADJUSTMENT
16471812	COPY OF 16405771 - METER LOCATION IS NOT GETTING UPDATED
16484441	COPY OF 14845003 - MOD 11747 - UNABLE TO UPDATE RATE DETAILS WHEN APPLY CALC RUL
16500710	CONVERT CATEGORY TYPE CUSTOM SEARCH TO DROPDOWN ON CALC RULE
16516712	DEVELOPMENT SYSTEM DATA APPEARS IN DEMO AND V2.4.0 ENVS
16531275	C1FACOMPLETIONEXTSYSSTRUCT SERVICE ELEMENT NAME INCORRECTLY CHANGED
16531293	COPY OF 16511246 - NEW BUDGET AMOUNT FOR SA IS NOT DISPLAYED ON BUDGET RECOMMEND
16538510	COPY OF 16538507 - MAILING PREMISE WARNING ON START STOP
16547461	MODIFY TASK CLASS BO OPT VALUE OF SVC TASK TYPE BOS MAINTAINED IN THE GEN PORTAL
16563373	DUPLICATE CALC GROUP SHOULD INCLUDE DESCRIPTION
16574453	COPY OF 16243223 - TOO MANY OPEN CURSORS IN THE REGISTRY TRYING TO VIEW THE CHI
16574460	COPY OF 16391831 - TD-PURGE DOES NOT DIVIDE WORK CORRECTLY BETWEEN THREADS
16574462	COPY OF 16409457 - CORRECTING CERTAIN BASE SQLS: UPDATE TENDER CONTROL
16574464	COPY OF 16507113 - CANNOT CHANGE ACCOUNT ID ON SUB SERVICE AGREEMENT
16585989	USENEW RATE TO GENERATE A QUOTABLE SA SHOW ERROR "INITIAL SERVICE QUANTITY"

Bug Fix	Description
16591126	REMOVE WORKLIST ICON FROM SA CREATION RULE COLUMN OF THE SA CREATION RULES ZONE
16593914	CREDIT NOTE POST BILL AND BILL COMPL ALGS FREEZE ADJUSTMENTS AFTER CREATION
16607524	COPY OF 16195599 - CCB 2.3.1 ENCODING ERROR FOR SIMPLIFIED CHINESE CHARACTERS IN
16607525	COPY OF 16384496 - DEPOSIT CALCULATE NOT CORRECT FOR SOME ACCOUNT
16616027	SP ID FIELD MISSING ERROR ENCOUNTERED WHEN SP SHOULD HAVE BEEN CREATED
16627252	CMA -ISSUING CENTER SERVICE C1ISSCTP HAS NO SERVICE LIST FOR C1_ISS_CTR_LOG_PARM
16674757	LANDLOARD SEARCH DOES NOT SUPPORT LIKEABLE SEARCH
16695489	COPY OF 15848054 - AFTER CCB V2.3.1 UPGRADES TO SP6, ORDER CREATION FUNCTION RET
16718655	BOLD TEXT LABEL ON LOAN SA
16719106	ERROR ENCOUNTERED WHEN BUNDLING IS ENABLED FOR CALC RULE
16725086	SEND RESOURCE CODE FOR CSS IMAGE
16726488	RATE CHECK PORTAL UI ISSUES
16738812	TRANSITION ERROR ALGORITHM MAY LOG WRONG
16742016	BILL FACTOR CODE COLUMN IS NOT POPULATED FOR CALC RULE
16743498	87029 - VALIDATION PLUGIN NOT ADDING ERROR TO MO LOG
16743528	87042 - INCORRECT MESSAGE ON MISSING ACCOUNT ID
16744500	COPY OF 16555125 - CCB 2.1 LEAP YEARS HANDLING
16744518	COPY OF 16305523 - OUBI CF_ARREARS LOAD
16744527	COPY OF 16500353 - PATCH 14668296 DID NOT RESOLVE ISSUE WITH NEGATIVE ADJUSTMENT
16744530	COPY OF 16506150 - ISSUE ON ALGORITHM THAT SUPPRESSES PRINTING BILLS AFTER FINAL
16744533	COPY OF 16527377 - THE ADHV-DTD ALGORITHM TYPE BEHAVES DIFFERENTLY ON A PERSON A
16744543	COPY OF 16534724 - INTERFACE UPDATE REQUIRED FOR CUSTOMER CLASS - OVERPAYMENT DI
16744549	COPY OF 16602911 - METER READ NOT FOUND ERROR WHEN RE-GENERATING A BSEG FOR A CO
16744561	COPY OF 16635455 - UPDATE DTTM ISSUE WHEN LOADING FACT EXTRACTS INTO BI

Bug Fix	Description
16744568	COPY OF 16635481 - SA ARREARS SNAPSHOT (EXTSAARS) EXTRACT ISSUE WHEN RUNNING FOR
16744576	COPY OF 16657601 - ARREARS DATE CHANGE IN CI_FT IS NOT CAPTURED BY FINANCIAL FAC
16744585	COPY OF 16595606 - BATCH CONTROL BCGSNAP HAS A NEW DEFAULTED PARAMETER THAT MUST
16744593	COPY OF 16708741 - CCB 2.4 ENCOUNTERING A ORA-00904: INVALID IDENTIFIER ERROR WI
16744618	COPY OF 16381853 - NEW RATE CHECK NOT PASSING OVERRIDE CHARACTERISTICS TO ELIGIB
16745404	INDEX NAMES INCORRECT ON CI_BILL_CHAR
16757152	CCB_24_AR:2237:ENGLISH BLEED-THROUGH - 2 OCCURRENCES
16761769	COPY OF 16709411 - PREMISE AND PERSON TREE NOT POPULATED
16762684	V2 RATE SCHEDULE/CALC GROUP/CALC RULE ISSUES - V2.4.0.1.0 QA WEEK 2 FUNC1
16769438	BILL SEARCH QUERY ZONE RESULTS SHOULD BE ORDERED BY BILL DATE DESC
16775629	BS THAT REFERENCE AN APP SVC WITHOUT EXECUTE ACCESS CAN'T BE EXECUTED FROM BPA
16789041	CHANGE BILL ROUTING COLLECTION ROUTINE TO USE PRIMARY INDEX
16792809	CCB_24_FR:2237:HELP INDEX - ENTRY POINT=&QUOTNONE"
16795431	COPY OF 16795405 - SA ARREARS SNAPSHOT (EXTSAARS) EXTRACT ISSUES
16795534	VALUE MUST BE BLANK ERROR WHEN UPDATING APPLY TO CALC RULE
16796010	COPY OF 16730737 - UNABLE TO COMPLETE NON-CIS PAYMENT DUE TO LIMITED MAX NUMBER
16812049	APPOINTMENT HYPERLINK IS NOT WORKING PROPERLY
16816805	COPY OF 16811813 - INCORRECT TO DO ROLE SAVED IN THE ACCOUNT MANAGEMENT GROUP PA
16817056	87048 - FORMS SERVICE TASK TYPES ARE NOT FILTERED IN MASTER CONFIGURATION
16820595	COPY OF 16689715 - "BILL SEGMENT DOES NOT EXIST" TO DO ENTRY CREATED DURING BILL
16820606	COPY OF 16635216 - OUCSS - ADDRESS MAINTENANCE SOURCES FOR READ AND UPDATE
16820614	COPY OF 16553231 - OVERRIDE THE DESCRIPTION OF AN EVENT OF OVERDUE PROCESS IS NO

Bug Fix	Description
16827347	11752 - SEPA ATTEMPTS TO ADD A DIRECT DEBIT MANDATE ENDS IN SERVER ERROR
16828421	COPY OF 16817617 - ALLOW ESTIMATES CHECK BOX NOT DEFAULTING CHECKED ON SA PAGE
16829530	DUPLICATING USER - TENDER SOURCES ARE NOT COPIED
16832009	87040 - C1-BLDNMNOTF SCRIPT IS THROWING SERVER ERROR WHEN INVOKED
16834989	COPY OF 16494421 - TO DO LIST DOES NOT ORDER THE DATA BY SORT KEY FOR TD-HILO
16834991	COPY OF 16605294 - WRITE-OFF AGENCY REFERRAL CREATES ORPHAN REFERRAL RECORD WHEN
16836371	COPY OF 16018890 - MAX GRID AND HOTSPOT ERROR WHEN WE RUN AR-DCDT
16837045	IT WK5 87040-NOTIFICATIONS : CANNOT INACTIVATE ACTIVE SERVICE TASK
16837276	IT WK5 87040 - NOTIFICATIONS : TRANSITION ERROR
16837535	87040 - CHANGE TO LOGIC FOR BUILD NOTIFICATION.
16837928	UNABLE TO OVERRIDE VIA CM C1-OCBGEN BASE MO OPTION OCBG CORRECTED READ BO
16841723	GETSTATEID() METHOD OF ENTITIES WITH COUNTRY/STATE THROWS NULLPOINTEREXCEPTION
16841953	11697: SP SEARCH NOT RETURNNG SOM MANAGED SP'S.
16843758	COPY OF 16823705 - THE ALGORITHM COMPONENT "NAME" MUST IMPLEMENT A VALID ALGORI
16850118	87048- FORMS: MISSING BATCH CONTROL ON AWAITING RESPONSE STATE
16850218	IT WK5 87048-FORMS CLOSED FORM DOESNT SHOW PROPER ACTION BUTTONS
16856546	87048 - FORMS : NEW ALGORITHM TYPE FOR CLOSED STATE
16856937	COPY OF 16826620 - DUPLICATE KEY GENERATION ON CI_FT_K
16866830	87048 - REVIEW COMMENTS FROM CSS TEAM
16870397	87040 - C1-BLDNMNOTF SCRIPT IS UNABLE TO BUILD NOTIFICATIONS PROPERLY
16871122	87048 - C1-BLDFRNOTF SCRIPT IS UNABLE TO BUILD NOTIFICATIONS PROPERLY
16871305	INVALID LOOKUP VALUE IS PASSED ON PAYMENT METHOD BY WX-PROCAPAY

Bug Fix	Description
16875442	COPY OF BUG 9976505 - COPY OF 9976186 - FIX 9828739 ISSUE: MANUAL DISTRIBUTION T
16880329	MOD 11748 - GOT SQL ERR CODE 999999994 DURING BATCH C1-PEPL2
16881349	COPY OF 16874574 - REQUEST TO CREATE JAVA TO COBOL WRAPPER FOR CIPOOFSN ROUTINE
16884006	BILL EXTRACT XML FILE ALGORITHM IS THROWING NULLPOINTEREXCEPTION
16886517	COPY OF 16841528 - C1-PEPL2 IS NOT PROCESSING ACCORDINGLY
16886885	COPY OF 16884153 - CSQ RULE BATCH ERROR:ILLEGAL ATTEMPT TO ADD ENTITY FROM IMMUT
16886964	DOCUMENTATION ISSUE - LIFECYCLE OF PENDING START
16889652	87040 - DEFINE MD FIELDS FOR WX-NOTFPREF SCRIPT SCHEMA ELEMENTS
16893263	COPY OF 16717317 - CUSTOM BILLING CONSUMPTION SERVICE GENERATES INCORRECT BILL
16893285	COPY OF 16854227 - DUPLICATE KEY ERROR RAISED WHEN CHANGING SA START DATE
16893290	COPY OF 16874238 - ISSUE AFTER PATCH 9952846 - COPY OF 9915974 - ITEM COLLECTION
16899079	87026 – UNABLE TO DISPLAY PA TASK TYPE IN SELF SERVICE MASTER CONFIG MAINT UI
16908652	ERROR WHEN GENERATING ADJ FOR BD SA USING V2 RATE SCHEDULE
16914597	COPY OF 14509496 - MATCHING ISSUE WITH OVERPAYMENT
16916624	COPY OF 16884032 - THE SCHED_EXTRACT_DT FIELD IS NOT SETTING WHEN A AUTO PAY IS
16916981	87040 - MISSING SERVICETASKID NODE PREVENTS CREATION OF NEW SERVICE TASKS
16917356	87040 - CLICKING THE NOTIFY BUTTON IN NOTIFICATION SERVICE TASK RESULTS TO ERROR
16922463	PROBLEMS IN SET10 - BILL AND PAYMENT
16923710	87048 - ALERT HANDLING
16923985	NO ERROR IS THROWN WHEN MVA IS SET TO ERROR FOR CSQ CALC RULE
16924251	87048 - FORMS LIST LAST UPDATE DATE CRITERIA
16924909	87040 - PPB SUPPRESSION SCRIPT NOT ABLE DETERMINE SUPPRESSION CRITERIA PROPERLY

Bug Fix	Description
16925309	87048 - FORMS LIST RESULT NOT SORTED BY LAST UPDATE DATE
16927225	COPY OF 16926221 - BILLABLE CHARGE TEMPLATE IS PROTECTED WHEN ADDING A BILLABLE
16928392	11697 - SERVICE TASK NOT TRANSITIONED TO ERROR IF AN ERROR IS ENCOUNTERED
16931855	87040 - UPDATES TO NOTIFICATION PREFERENCES SHOULD BE ALLOWED
16932410	87044 - ALERT INFO SECTION IN SEVICE TASK TYPE DISPLAY NOT PROPERLY DISPLAYED
16936495	MOD 11748 - ALGORITHM TYPE C1-ENCR-CRVL IS MISSING NULL CHECK CAUSING SYSTEM ERR
16940842	CAPITALIZE CODE VALUE ON THE MAINTENANCE UI MAP
16950369	COPY OF 16943397 - CIPBBILB - MAXIMUM NUMBER OF OPEN BILL CYCLES WAS REACHED AGA
16963924	COPY OF 16954577 - BILL CYCLE CHANGE NOT REFLECTED ON USAGE BILL CYCLE CHANGE N
16964224	COPY OF 16926759 - ONE-TIME SA GOES TO REACTIVATED STATUS RATHER THAN STOPPED ST
16965908	CALC RULE SEASONAL THROWS OVERLAP ERROR WHEN THERE IS NO OVERLAP
16966010	OVERRIDE PRORATION ALG FOR CALC RULE IS NOT BEING INVOKED IF ENABLED
16968321	CI_PAY_EVT_CHAR MISSING ON PAY EVENT MO
16973619	COPY OF 16957630 - DISTRIBUTION CODE IS NOT ASSIGNED IF THE CAL RULE IS SET TO R
16975316	87048 - CHANGE TO LOGIC FOR FORMS BUILD NOTIFICATION
16984010	REPORT CI_FOPRNT RETURNS %PDF ERROR IN V2.4.0.1.0 BI PUBLISHER 11.1.1.7
16985557	COPY OF 16952801 - ERROR WHEN UPDATING A PAY PLAN WHEREAS THE ACCOUNT AUTO PAY I
16986146	11752 - SEPA FR CHANGES
16986811	COPY OF 16946605 - SERVICE ACTIVITY SHOULD HAVE AN STATUS ON ACTIVE IN THE LOOK
16988477	87029 - PROCESSING ERROR ENCOUNTERED WHEN USING SSN AS IDENTIFIER IN SOAP REQUES
16998933	87060 - SCALAR USAGE DETAIL IS NOW RETURNED FOR EVERY ELIGIBLE SA
17000875	87045 - CHANGE LOGIC OF SEND PPB NOTIF TO CSS FOR CHANGES MADE BY BUG 16837535

Bug Fix	Description
17008982	87040 - ERROR RETURNED WHEN BATCH C1-UPDNT HAS ONLY ONE PARAMETER VALUE
17011500	COMPARE UTILITY ERROR 1024 ON BATCH CI_COPRP
17013636	SERVER ERROR IN 2.4.0.1.0 BUILD 9 ON V2 SIMPLE SUMMARY DISPLAY
17015472	87048 - ADDITIONAL INFORMATION NOT SHOWN IN FORM TASK PAGE
17015496	87048 - CLOSE REASON IS NOT DISPLAYED IN CLOSED FORM TASKS
17019838	COPY OF 17014410 - DUPLICATE KEY ERROR WHILE CREATING SP METER HISTORY
17020477	DELETE UNUSED MESSAGES FROM CICCMSG8 COPYBOOK
17026132	COPY OF 17020152 - USING NEW PREMISE WITHOUT POSTAL CODE, SYSTEM THROWS ERROR ON
17026470	87045 - FR - PREPAID CUSTOMER ENHANCEMENTS
17026606	87040 - DUE DATE IS NOT POPULATED FOR BILL DUE NOTIFICATIONS
17031171	FR - UPDATING DESCRIPTIONS OF VARIOUS CSS OBJECTS
17034155	87048 - WX-FORMSMGMT IS REFERENCING UNUSED DATA AREAS
17034219	87040 - C1-BLDNMNOTF - CHECK IF NOTIFICATIONS OF SERVICE TASK BO IS POPULATED
17037041	COPY OF 17014884 - FINANCIAL FACT'S CALCULATED AMOUNT INCORRECT FOR BILL SEGMENT
17039172	COPY OF 16794117 - METER REPLICATOR WON'T WORK REPLICATING 1 METER BADGE PREFIX
17039181	COPY OF 16947308 - ADJCALCLINE DEFINED IN WSDL IS MISSING IN RESPONSE
17041852	87045 – NO ERROR ON MISSING C1-PPBMAININ SCRIPT IN SS MASTER CONFIG
17049603	COPY OF 17031914 - RECEIVED WARNING ADDRESS SOURCE IS MAILING PREMISE BUT ACCOUN
17051241	COPY OF 16945753 - {INFO} SERVICE QUANTITY RULE RESULT DECIMAL PRECISION
17051758	COPY OF 16961259 - THE TODO CHARACTRISTIC NOT SET BY THE TDCR-CHAR ALGORITHM (CA
17055134	87040 - DEACTIVATE ACTIVATE BUTTON NOT WORKING PROPERLY ON NOTIFPREF SERVICETASK
17058053	87045 – PPB ALERT IS NOT DISPLAYED ADJ. PAYOFF BAL. < MIN BAL

Bug Fix	Description
17058602	87040 - ADDITIONAL CHANGES FOR LATE PAYMENT NOTIFICATIONS
17067916	87029 - CSS START STOP - ED CHANGES
17071082	87048 - NOTIFICATION RETRY SECTION NOT GETTING POPULATED
17083344	87048 - ADD ERROR PROCESSING TO FORMS MANAGEMENT SERVICE
17083418	10751 REPRESENTATIVE CODE SHOULD AUTO-CAPITALIZE ON ADD
17084121	87048 - FORM TASK BO LIFECYCLE CHANGES
17084194	87048 - MAINTENANCE MAP FOR FORM COMMENTS AND ATTACHMENTS
17088479	MISSING DRILL KEYS ON CSS TO DO TYPES
17156094	ONLINE BILLING IS NOT WORKING
17158698	STATUS REASON ON BO LIFECYCLE SHOULD BE SET FOR STATUSES THAT REQUIRE A REASON
17158806	COPY OF 17010281 - BILLING BATCH NOT PICKING UP ACCOUNTS WITH CREDIT NOTES ON TH
17160247	10751 - NULLPOINTER ERROR ON GENERATE LEAD IF MAX NUM OF LEAD IS BLANK
17167239	ADD AN EXTRA COLUMN TO EXISTING INDEX ON CI_SA_CONTERM
17173322	10751 - BILL MESSAGE TRUNCATED IN THE BILL INSERT LEAD EVENT MO LOG
17173520	10751 - LEAD AND LEAD EVENT LOGS FOR CREATED LEAD EVENT DON'T HAVE LEAD EVENT ID
17177091	COPY OF 16997585 - NBB AVG DLY AMT IS UNDER CALCULATING WHEN THERE'S A CANCEL/RE
17177113	COPY OF 16959290 - TO DO ENTRY FOR AN SA IS DUPLICATED
17177132	COPY OF 16991289 - FIELD ACTIVITY INTEGRATION IS STILL TRIGGERED WHEN A WARNING
17177925	10751 – NO ERROR IN C1-LEADG BATCH IF MAXIMUM NUMBER OF LEADS IS "0"
17178395	10751 – NO ERROR IN C1-LEADG BATCH IF INITIATIVE IS IN "INACTIVE" STATUS"
17180154	87029 - BILL ROUTE AND MESSAGE CHANGES
17181638	10751 - SUBJECT OF THE EMAIL TO INFORM REP ABOUT LEAD SHOULD BE INITIATIVE INFO
17187839	2.4 RATE ENGINE ISSUE - DO NOT PRINT IF ZERO

Bug Fix	Description
17192506	COPY OF 17176598 - ERROR 500 WHEN CLICKING TO VIEW A RUNNING THREAD IN BATCH RUN
17193552	MOD 10751 PROGRAM MANAGEMENT FUNCTIONAL REVIEW
17196338	INIT INST: SERVER ERROR WHEN SEARCHING BILLABLE CHARGE LINE TYPE
17198350	11697 - SOM - NEW PREM INFO ZONE INCORRECTLY DISPLAYS ITEM INFORMATION
17200140	ADD ERRORINFORMATION TO WXCREATEMETERREAD AND WXGETCONSUMPTIONSUMMARY SERVICE
17200679	10751 – MESSAGE PARAMETER (%2) IS INCORRECT FOR MESSAGE 11118,13106
17214769	DISPLAY ALL DETAILS OF THE CRITERIA IN CALC RULE ELIGIBILITY CRITERIA LIST ZONE
17215894	87048 - UNABLE TO READ CAMPAIGN FIELDS USING WXFORMSMANAGEMENT SERVICE
17217304	87040 - BILL DUE NOTIFICATION ISSUE USING OLD BO
17220482	COPY OF 17180724 - 2.4 RATE ENGINE ISSUE - PRECISION IS NOT APPLIED ON CALC LINE
17221048	MOD 10751 - LEAD EVENT NEEDS NEW AUTO TRANSITION BATCH PROCESS
17222553	COPY OF BUG 17089119 - CCB 2.4 NEW RATE ENGINE CALC RULE ELIGIBILITY CRITERIA ER
17230469	10751 - MANUAL UPDATE ON CM-ABLE FIELDS
17230507	COPY OF 16443803 - IMPROPER USE OF SAVEPOINT IN JAVA
17231383	SQL SEARCHING BY [ADHOC]_CHAR_VAL INSTEAD OF SRCH_CHAR_VAL
17231391	COPY OF 17059419 - AFTER APPLYING PATCH 16841528 - C1-PEPL2 IS NOT PROCESSING AC
17236330	COPY OF 17044798 - ADJUSTMENT FT CREATION ALGORITHM TYPE C1-FTGL-ADNM ISSUES
17239084	ENABLE UI HINTS ON C1-CALCLINEDISTRIBUTION DATA AREA
17244194	MOD 10751 - LET: INFORM CUST VIA SMS - UI DROPDOWNS CONTAIN INVALUD VALUES
17246228	87040 - ROLLBACK CHANGES IF NOTIFICATION CREATION ENCOUNTERED AN ERROR
17247136	87048 - FORM TASK NOT TRANSITIONING TO CLOSED STATUS WHEN MAX RETRY IS REACHED
17257297	NEAR REAL-TIME SYNCS FOR SP AND SA CREATES DUPLICATE RECORDS IN MDM

Bug Fix	Description
17263485	BILL PRINT (CCB-MDM) FUNCTIONAL REVIEW
17263774	10751 – MESSAGE PARAMETER (%4) IS INCORRECT FOR MESSAGE 11118,14101
17267162	87040 - CHANGE THE LABEL OF NOTIFICATION PREFERENCES ZONE'S FIRST COLUMN HEADER
17267324	87048 – DUPLICATE KEY ERROR ENCOUNTERED DURING NOTIFYING CUSTOMER
17267411	87040 -UNABLE TO SEARCH FOR POSSIBLE VALUE OF CONTACT CLASS IN NOTIFICATION PAGE
17267557	87048 - REMOVE THE NOTIFICATION DETAILS SECTION IN C1-FORMTASK BO
17267929	87048 - DISPLAY CAMPAIGN FIELD PROMPT IN FORM TASK DISPLAY
17274460	87045-CSS2-UNEXPECTED ERROR IN PREPAID ENH DISPLAY
17275389	NLS:UI -CCB - SOURCE STRING TRUNCATED
17276605	11752 - USAGE FLAG ON THE COUNTRY CODE EXTENDABLE LOOKUP NOT SHOWN ON THE MAPS
17284189	COPY OF BUG 17284241 - BATCH C1-BNBAS MAX COMMIT UNIT IS NOT SET TO ONE
17285731	UNABLE TO ADD A PERSON - SERVER ERROR RETURNED
17290731	MOD 10751 - TABLES DATA CONVERSION ROLE SHOULD BE NOT CONVERTED
17291250	COPY OF 16574892 - OBJECT REQUIRED JAVASCRIPT ERROR WHEN UPGRADING CCB 2.1 TO 2.
17291514	10751 - ADD NEW INDEX ON LEAD AND LEAD EVENT TABLES
17302226	87048 - FORMS LIST NAVIGATION RESULTS HAVE INVALID SETS OF FORM DETAILS.
17302356	87048 DELETE BS/ZONE C1-GETFORMS
17307733	COPY OF 17084516 - SCROLL SORT FOR NON-CASH DEPOST ACTIVITY IS DIFFERENT FROM AU
17307736	COPY OF 17184414 - MAX BILL THRESHOLD ERROR ROLLS BACK FOR SUB BILL SEGMENT
17307750	COPY OF 17227663 - DATA STORED IN CI_FA.FA_DATA_AREA IS REMOVED AFTER SAVING DIS
17307753	COPY OF 17286040 - AFTER INSTALLATION OF BUG 17006758 - CIPPDSAN HAS INCORRECT F
17307757	COPY OF 17171008 - BASE BILL PRINT EXTRACT POPULATING INCORRECT VALUES FOR THE D
17308312	10751 FR - INITIATIVE STATISTICS ISSUE

Bug Fix	Description
17308672	PAYMENT ARRANGEMENT ALERT FOR PREPAID WAS DISPLAYED IN OUCSS DASHBOARD
17309596	87029 - MOVE NEXT STATUS "DISCARD" FROM "PENDING" TO "AWAITING PROCESS"
17309739	87026 - FR ITEMS FOR PAYMENT ARRANGEMENT
17310584	CMA - EXPORT/IMPORT ERROR DUE TO MO F1FK/F1PB HAVING MORE THAN ONE HIGHEST SEQ
17312243	COPY OF 17259291 - LINK MISSING FROM BILL SEGMENT CALC TO BILLABLE CHARGE
17312340	87029-WHEN SRV TASK TYPE IS INACTIVE, ERROR S/B GENERATED WHEN SUBMIT
17314889	SERVER ERROR RETURNED WHEN ADDING A PERSON
17317619	ERROR ON THIS SCRIPT FILE - 13483058_RS1.SQL
17317753	87040 - CCB ERROR ENCOUNTERED DURING UPDATE OF NOTIFICATION PREFERENCES
17319588	87040 - CONTACT TYPE DROPDOWN NOT POPULATED IN NOTIFICATION TASK TYPE
17329225	CONTRACT OPTION TYPE SHOULD BE ALLOWED ON BD SA
17330828	10751 FR - INITIATIVE CRITERIA ISSUES
17342127	COPY OF 17291943 - COBOL CRASHES IN MICROFOCUS RUNTIME
17342973	COPY OF 17340396 - CHANGE IF PERIOD IS CLOSED INSTALLATION OPTION DOES NOT WORK
17355306	DESCR50 FIELD DEFINITION IN COBOL WRAPPER PROGRAMS IS OBSOLETE
17356148	REMOVE WARNING FROM START STOP TRANSACTION
17356248	PREMISE SEARCH PAGE FIELDS POPULATED ONCLICK OF SEARCH FOR PREMISE BUTTON
17361346	ERROR MESSAGE RETRIEVED IN SOAP FAULT FROM XAI SERVICE NEEDS TO BE CORRECTED.
17361641	REGISTER CONTEXT MENU DOES NOT NAVIGATE TO METER CONFIGURATION ON METER TREE UI
17362563	87048 -FUNCTIONAL REVIEW ITEMS FOR FORMS
17362583	MOD 10751 FR - INITIATIVE CRITERIA TABLE SHOULD NOT BE CACHED
17363283	INCORRECT FIELD REFERENCED BY "LABEL" HEADER IN THE SELF-SVC MASTER CONFIG MAPS
17369727	87040 - CHANGE LABEL FOR FORMS ON MASTER CONFIG.

Bug Fix	Description
17377238	10751 FR - LE TYPE USING MARKETING PREF/ SEND NOTIFICATION TO CSS ISSUE
17382649	10751 – MISSING ERROR MESSAGE PARAMETER FOR MESSAGE 11118, 12016
17384493	10751 – ACCOUNT CONTEXT MENU AND HYPERLINK IS NOT WORKING ON LEAD PAGE
17385460	87048 - FORMS LIST'S STARTDATETIME ELEMENT SHOULD BE OF STRING TYPE.
17389976	10751 FR SPACE IN LEAD EVENT MO LOG ENTRY FOR ACTUAL MESSAGE SENT CAN BE IGNORED
17390957	COPY OF 17367060 - METAINFO MISSING FOR 'CILLARSL'
17393002	87044 – FR ITEMS OR BUDGET MANAGEMENT AND BILLING
17394196	87040 - THE ID SERVICE TASK TYPE <INPUT ID> IS INVALID.
17395826	BUSINESS OBJECT C1-RATESCHEDULEV2 SET "ALLOW NEW" CAUSES CMA TO NOT APPLY IMPORT
17399162	87048 - WX-FORMSMGMT RETURNS SERVICE TASK TYPES NOT RELATED TO INPUT FORM TYPE
17399214	87040 - UNABLE TO UPDATE THE DAYS BEFORE DUE FIELD FOR BILL DUE NOTIFICATION
17404666	MOD 10751 - LEAD QUERY BY INITIATIVE AND STATUS NOT WORKING
17408385	87040 - INCONSISTENT DISPLAY OF DELIVERY DETAILS USING OLD BO
17410190	87040 - CHANGES TO C1-VALNOTTTY FOR MARKETING PREFERENCES
17410596	87045 - CHANGES TO C1-PPBNTFCSS FOR MARKETING PREFERENCES
17413288	87048 - USER NOT GETTING POPULATED IN COMMENTS SECTION
17426898	CCB240_APDATA5.SQL BLUEPRINT UPGRADE SCRIPT HAS ISSUES WITH SUBSTR
17430828	COPY OF 17426901 - UPGRADE SCRIPT (13483058_RS1.SQL) ADDED FOR BUG-13483058 HAS
17431474	COPY OF 17431301 - REMOVE REDEFINITION PACKAGE CALL FROM ALL CCB BLUEPRINT RELEA
17432559	87048 - FORMS LIST: NAVIGATION WITH DATE RANGE FILTER NOT WORKING
17434033	87029 - ED CHANGE DEFAULT OVERRIDE ADDRESS AND PHONE INFO

Bug Fix	Description
17438355	DB ISSUES: MISSING PK AND TABLE FIELDS HAVING NULLABLE MD BUT ARE NOT NULL IN DB
17444558	10751 - ADD CHECK FOR MASTER CONFIG BO EXISTENCE TO MARKET PREF AND CSS LE ALGOS
17452992	11762 - REMOVE TRAILING SPACES ON OBJ_PROPERTY_NAME
17458561	ISSUE ON CCB V24010 PATCH PROCESSING
17460363	ORACLE UTILITIES CUSTOMER CARE AND BILLING V2.4.0.1.0 RELEASE
17464124	10751 LEAD STATUS DESCR IS NOT DISPLAYED ON SALES REP PORTAL
17466615	CMA IMPORT - FK VIOLATION ON WRITE OFF EVENT TYPE ON NON-REQUIRED FIELDS
17468331	11762 - MIG PLAN UI MAP AND BUS SVC IS MISSING ON MIG REQ C1-COPYCONTROLTABLES
17473257	11762 CMA - ADD SELECTION CRITERIA ON MIGRATION REQUEST INSTRUCTIONS
17477898	F1-FLUSH NOT FLUSHING CCB INSTALLATION OPTIONS
17578624	SUPPORT ORACLE DATABASE 12C FOR CCB 2.4.0.1.0
18283080	MICRO FOCUS SERVER EXPRESS 5.1 WRAPPACK 8

Bugs Fixed in Version 2.4.0.0

Bug Fix	Description
6088824	SR# AOVC-1158# CASE INFO HAS THE EXTRA SPACE WHEN THE INFORMATION IS EXTRACTED B
6088830	SR# AOVC-181# WRITE OFF CONTROL ALGORITHMS
6091131	ONLY 9 COPIES OF BILL ARE ALLOWED. SOME CUSTOMERS REQUIRE MORE.
6430717	WPTG_TBT:APPS:ABBS:Q/A101387:UNAPPROVED ABBREVIATIONS IN CI_MD_FLD_L.XLF
7121102	WPTG_TBT:APPS:INTXT:Q&A114477:INCOMPREHENSIBLE MESSAGE IN CI_MD_FLD_L.XLF
7521603	SERVICE XML FILES FOR COBOL SERVICES WITH BASE FIELD METADATA - ARE WRONG
8247783	UNCATEGORIZED SKIP SA REASON ON BILL SEGMENT PAGE MAINTENANCE
8771902	TO DO FACT AND TO DO ENTRY DIMENSION NOT ABLE TO RUN MULTITHREADED
8918402	2 NOTIFICATION NAVIGATION OPTIONS ARE CONFIGURED INCORRECTLY.
9125932	RI ERRORS IN BASE OWNED SYSTEM DATA
9545816	MOVE MONITOR ALGORITHM C1-TRN-DF-NS TO FW.
9586092	BIG DECIMAL DIVIDE AND MULIPLY METHOD NOT USING CONTEXT
9592284	BILL MAINTENANCE OBJECT: SERVICE DOES NOT HAVE MAPPING FOR CI_BILL_MSG_PRM
9808524	MISSING ENTRY IN CI_NAV_OPT_L
9842171	WARNING DIALOG INCONSISTENT FOR CHANGES TO FREEZABLE ADJUSTMENT
9850261	DEPRECATION - ANNOUNCED IN 2.3.0 RELEASE NOTES
9866191	ACTION ZONES SHOULD USE FW DSS
9880805	THE WSDL FOR THE XAI SERVICE CONTAINS TWO SCHEMAS REFERED TO THE SAME NAME
9955845	V2300072; MEDIUM; V2.3 USE OF RULE HINT IN ORACLE 10G
10020432	MATCH EVENT MAINTENANCE PROGRAM - SLOW PERFORMANCE IN CIPFMVTR - SQL S-CHKRI02
10032070	COPY OF 9824342 - VALUE ADDED TO CUSTOMIZABLE LOOKUP CAUSES VALIDATION ERROR IN
10039885	REMOVE HINT TO DO FULL SCAN ON CI_FT FROM BATCH BCGSNAP

Bug Fix	Description
10080156	COPY OF 9835760 - CIPFMEVN CURSOR S-SAAMT NOT BEING CLOSED PROPERLY UPON OPEN MA
10090949	WPTG_TBT:GBU:CONCAT:Q&A172928:INCOMPLETE STRING:CCB-CCB-2.3.1-D2
10097625	COPY OF 9954364 - ERROR CALLING CILBBLLP PAGE SERVICE
10122248	NUMBER OF ROWS IN THE _L TABLE DOES NOT MATCH THE NUMBER OF ROWS IN THE MAIN TAB
10126346	CHARACTERISTIC IN PAYMENT UPLOAD STAGING
10157260	COMMA IN CURRENT CREDIT RATING IN CUSTOMER INFORMATION ZONE INCONSISTENCY
10239744	CCB ALLOWS TENDER WITH PAYMENTS OF DIFFERENT CURRENCIES IN A PARTICULAR SCENARIO
10313980	TWO DIFFERENT MESSAGES HAS THE SAME TEXT.
10363579	COPY OF 10363546 - SUPPORT 10 KEYS ON THE FK VALIDATION SUMMARY AND DETAIL UIS
10402770	BATCH "CL-APPCH" IS "ENDED" BUT THE BATCH RUN TREE STATUS IS "IN PROGRESS"
10625519	PREMISE 'TREND AREA' NOT BEING SET TO DEFAULT VALUE DURING ORDER CREATION
10647402	CONVERT PAYMENT EVENT INFO ROUTINE INTO AN ALGORITHM
11064724	PROGRAMS USING PREPAREDSTAMENT MUST CLOSE() THE STATEMENT IN A FINALLY{} BLOCK
11073591	COPY OF 13852349 - GETDECIMALVALUE() IN INPUTREDEFINEHELPER MUST NOT ADD SIZE
11074680	COMPLETE BUTTON IS BEING ENABLED IN BILL MAIN PAGE WITHOUT DOING ANY TRANSACTION
11666727	VARC FK CHARACTERISTIC NOT FOUND (COBOL) - PORT ETM FIX
11680631	DEPRECATE CILXCXSP SERVICE XML
11691584	ADD PORTAL TO VARIOUS PAGES
11729460	INCORRECT ERROR MESSAGE IS RETURNED WHEN ALGORITHM PARAMETER IS INCORRECT
11776394	BILL SEGMENT NOT CREATING CORRECTLY USING A % VALUE - PREVENTING BILLING
11819276	DATA DIFFERENCE PK FIELD IS TOO SHORT
11854287	COPY OF 10322558 - SELECTION OF SERVICE POINT FOR SEVERANCE PROCESS
11869210	{INFO} 2.3.1 INITIAL TO DEMO COMPARE

Bug Fix	Description
12328275	AN EXCEPTION IS THROWN WHEN INVALID SA ID IS ENTERED IN ADJUSTMENT UPLOAD
12330833	STATISTICAL AMOUNT COLUMN - CHANGE FORMAT
12362926	ADDED / CHANGED INDEXES
12543711	INCORRECT HANDLING OF COBOL PAGE SECURITY-CIPZSVCN
12583021	INCREASE FIELD LENGTH OF CI_ADJ_APREQ.PYMNT_ID
12587462	COPY OF 12617450 - RECEIVABLES AGING - TOTAL ARREARS CALCULATED BY THIS REPORT A
12626592	MOD 11747 MATH SQ RULE, SQ RULE PROCESSING SET TO ALWAYS, NOT ALWAYS PROCESSED.
12645737	COPY OF 10261733 - CONVERSION TEMPLATES FOR KEY GENERATION AND INSERTION HA
12647541	PERFORMANCE ISSUES POST BUG 12313595 - C1-RECTD EXTRACT PROCES RUNNING LONG
12729407	COPY OF 12658692 - METERREADESTIMATIONUSINGLASTYEARBILLSEGMENTSERVICE IS NOT WOR
12733896	CSS2 - ISSUE 18 - BILLING HISTORY SORTING
12735317	COPY OF 12670907 – CSS2 - ISSUE 34 - WX-NOTIF IS STUCK IN "STARTED" STATUS
12736634	COPY OF 12614950 - FOD BATCH JOB NEEDS TO CONSIDER WORK DAYS
12737556	ROW-DEFAULT-FOR-FLG - INCONSISTENT LENGTH IN VARIOUS COBOL PROGRAMS
12749675	COPY OF 12670907 - CSS2 - ISSUE 44 - SERVICE CHARGES S/B DSIPLAY AS SERVICE TYPE
12753654	COPY OF 12670907 – CSS2 - ISSUE 46 - UNABLE TO RETRIEVE MAILING AND PHONE INFO
12756545	RATE CHECK WITH BILL SEGMENTS, INPUT SQS ARE TAKEN AS NEGATIVE
12758274	COPY OF 12670907 – CSS2 - ISSUE 40 - ADD SPACE AFTER THE METER READ INFO STRING
12758348	COPY OF 12670907 – CSS2 – ISSUE 41 - SEPARATE 5 MD FIELDS FOR VERIFICATION FIELD
12762007	COPY OF 12760084 - TO DO ROLE SEARCH IN 'ORDER - HOLD CONFIRMATION' SHOWS ALL RO
12766807	COPY OF 12670907 - CSS2 - ISSUE 43 - PROBLEM IS IN 'WX-USGCHRGDT' SERVICE SCR

Bug Fix	Description
12773995	COPY OF 12670907 – CSS2 - ISSUE 47 - UPDATE OF NO. OF DAYS BEFORE DUE DATE
12776357	COPY OF 12670907 – CSS2 - ISSUE 35 - RATE PLAN DID NOT DISPLAY ELIGIBLE BILLS
12776512	COPY OF 12670907 – CSS2 - ISSUE 37 - RATE COMPARE NOT USING CORRECT RS
12776544	COPY OF 12670907 – CSS2 - ISSUE 42 - RATE COMPARE RESULTS BAD WITH RATE BREAK
12781391	COPY OF 12635043 - DEFECT #2138 - NO ERROR IF PAYMENT TENDER CONTROL ID IS BLANK
12784214	COPY OF 12670907 – CSS2 - ISSUE 49 - UNABLE TO UPDATE MAILING & PHONE INFO
12784238	COPY OF 12670907 – CSS2 - ISSUE 52 - ERROR WX-NOTIFYLATEPAYTASK - TOT AMT IS 0
12784277	COPY OF 12670907 - CSS2 - ISSUE 50 - DISABLED CHECKBOX IN BILLING NOTIFICATION
12784400	COPY OF 12670907 - CSS2 - ISSUE 38 - DESC S/B BELOW ON SELF-SERVICE TASK TYPE
12784571	COPY OF 12670907 - CSS2 - ISSUE 39 - REMOVE SPACE AFTER EVERY FIELD ON SELF-SERV
12797644	COPY OF 12797637 - ADD INSERT AND DELETE COUNTS TO THE CONTROL FILE
12808217	COPY OF 12720943 - CANNOT DELETE A METER AND METER CONFIGURATION
12813435	UPDATE OF OVERRIDE DTTM MANUALLY CODED IN SA OVERRIDE CONTRACT OPTION ROW MAINT
12822822	SYNC REQUEST INITIAL LOAD BATCH PROGRAM EXECUTION STRATEGY CHANGE
12848579	COPY OF 12600514 - FA CANCEL (PIP TO CCB) SHOULD ACCEPT FA UPLOAD REMARKS AND PR
12858755	11686 MIGRATE F1-SYNRQALRT FROM F1 TO C1
12861415	COPY OF 12861408 - ENHANCE ADDRESS EXTRACT FOR BI
12861681	COPY OF 12634168 - DUPLICATE FA CHARACTERISTICS CREATED DURING FACOMPL PROCESSIN
12861964	COPY OF 12861348 - CSS - CHANGE OF APPROACH TO CONFIGURE AND DERIVE TASK TYPES A
12866384	COPY OF 12859086 - USAGE BILLING W/O MONITOR THROWS NPE DURING BILL COMPLETION
12875669	COPY OF 12860480 - CC&B OUBI ETL EXTRACTS C1-PAYTND & C1-CSCNT - MULTIPLE ROWS R

Bug Fix	Description
12880162	COPY OF 10263502 - BI PUBLISHER 11 AND CCB 2.4.0
12890048	PAY SEGMENT FREEZE WARNING - INCORRECT SQL CONDITION
12904593	COPY OF 12902887 - PATCH 12652266 DID NOT SOLVE ISSUE WITH MESSAGE CATEGORY AND
12917534	COPY OF 12779262 - C1-PEPL1 BATCH JOB SOMETIMES FAIL WITH ORA-00060: DEADLOCK DE
12917553	COPY OF 11707424 - C1-PEPL2 TAKES 50% LONGER ON V2X SQL W/ HIGH LOGICAL REA
12923246	COPY OF 12915307 - PROBLEMS WITH CREATING CORRECTION NOTE FOR ACCOUNT
12945527	COPY OF 11939832 - SUMMARY ACCOUNTS AND USAGE REQUESTS
12945577	IN USAGEREQUESTUPDATE_IMPL PROGRAM USE FW MO API INSTEAD OF BS F1-RETRIEVEMOOPTI
12953174	COPY OF 12821248 - DEFAULT-BUS-DT-SW NOT SET
12955321	COPY OF 12654036 - CSS2 - 87014 - CLIENT ERROR IS DISPLAYED WHEN INVALID VALUES
12963887	COPY OF 12639598 - MUP2 CREATING DUPLICATE METER READS
12963937	COPY OF 12614490 - DEFAULT CASE CHARACTERISTICS ARE NOT CREATED BY CASECREATOR
12963957	COPY OF 12394755 - SET PROCESS NOT FINDING THE PROPER ENTRY ON FA TYPE PROFILE
12963966	COPY OF 12562600 - SYSTEM ERROR WHEN STOPPING ACCT WITH LLORD REVERSION IF AUDIT
12971527	C1-ACAMT AND C1-UPDPT SHOULD IMPLEMENT THREAD ITERATION STRATEGY
12977175	COPY OF 12673990 - FEATURE CONFIGURATION ACCESS (CILTWSDP) IS REQUIRED TO AFFECT
12977202	COPY OF 12732175 - PREMISE INFORMATION ZONE DOES NOT BUILD
12977210	COPY OF 12746920 - ERROR OCCURS WHEN THE RATE COMPONENT BEING COPIED HAS A CHARA
12977225	COPY OF 12859724 - ERROR WHEN CM JAVA ADJUSTMENT FT CREATION ALGORITHM CALLS CIP
12983885	COPY OF 12586511 - DUPLICATE EXTERNAL NUMBERS IN DOCUMENT NUMBERING
12989099	ERRORS IN COBOL COMPILE

Bug Fix	Description
12993123	CCB-SBL - COPY OF 12796815 - MASTER BUG FOR CCB-SIEBEL INTEGRATION
12993177	COPY OF 12660308 - ALLOWS DELETION OF CURRENTLY USED OVERDUE PROCESS TEMPLATE
12993183	COPY OF 12665312 - CIPOASTP QUERY TAKES LONGER THAN IT SHOULD.
12993189	COPY OF 12679773 - DEVICE TEST ERROR MESSAGE PARAMETERS NOT POPULATED
12993201	COPY OF 12683094 - CONVERSION PROGRAMS NOT AVAILABLE
12993243	COPY OF 12732385 - OPTIONAL COLUMN CAMPAIGN QUESTION WITH NO RESPONSE CAUSES ERR
12993261	COPY OF 12756471 - SWITCHING SERVICE ERRORS OUT WHEN EXISTING SA OF SAME SERVICE
12993273	COPY OF 12774448 - BILL SEGMENT FREEZE/CANCEL ALGORITHMS ARE NOT BEING EXECUTED
12993276	COPY OF 12779835 - INCOMPLETE ADJUSTMENT DOES NOT DISPLAY AMOUNT IN DASHBOARD FI
12993279	COPY OF 12790379 - CUSTOMER INFORMATION ZONE NOT SHOWING ALL CUSTOMER CONTACTS
12993286	COPY OF 12834736 - DEBIT MEMO ISSUED WHEN MAKE A REGULAR CYCLE BILL WITH CORRECT
12993289	COPY OF 12835365 - C1-USGDF THROWING ERROR MSG 6, 25624 ON CLOSING BSEGS
12993292	COPY OF 12847650 - BILLING DOES NOT EXIT ITERATION LOOP WHEN BILLABLE CHARGE BSE
12993296	COPY OF 12865979 - PROBLEM WITH CONSUMPTION SHOWN IN METER READ AFTER ROLLBACK
12993301	COPY OF 12959771 - CSS2 - 87013 - INCORRECT FAX NUMBER IN CCB BILL ROUTE TYPE
13000466	COPY OF 12969199 - PROBLEM WITH QUERY EXPERIENCING HIGH GC BUFFER BUSY.
13001373	FW - DEFAULT FLAG FIELD INVALID ERROR WHEN ENTERING VALUES IN AUTOPAY SOURCE TYP
13004689	FW - ERRORS ON RATE COMPONENT
13008562	ID TYPE - ID FORMAT VALIDATION ALGORITHM C1-WEBID WORKS AMBIGUOUSLY.
13010328	COPY OF 12999534 - PERFORMACE DEGRADATION AT BILL COMPLETION WITH APPLY TAXATION
13011208	FW - SERVER ERROR DISPLAYED WHEN NAVIGATING TO LETTER TEMPLATE PAGE

Bug Fix	Description
13016042	FW – MISSING LABELS IN FT
13016070	COPY OF BUG 12986361 - TIDY BALANCES JOB DOES NOT ALLOW LUMPING OF OLDEST ARREAR
13016447	FW – WRONG ALIGNMENT OF NON CIS UI TENDER ROW
13017021	FW – SERVER ERROR NAVIGATING TO WF PROCESS LINK
13025883	80038 - COPY OF 13020659 - SEND PREVIOUS USAGE REQUEST ID ON MDM USAGE REQUEST
13051996	FW - JSCRIPT ERROR ON PAYMENT PORTAL UI MAP
13058151	COPY OF 13041757 - ONLINE BILLING FAILS FOR BILL DETERMINANT SA
13062845	RE-ORG OF CCB DEV PACKAGES PROJECT
13066535	COPY OF 13035555 - PAYMENT TRANSFER OVERRIDES CANCELED PAYMENT MATCH TYPE/VALUE
13071700	COPY OF 13027307 - CSS2 - MASTER BUG FOR CCB POST RELEASE ISSUES PREREQ 12784167
13071762	COPY OF 12853107 - ERROR ENCOUNTERED WHEN RUNNING BATCH EXTPER WITH SERVICE SCRI
13071769	COPY OF 12680819 - V2301121;HIGH;CONFIGLAB: V2.3 REQUEST FOR PERL LOG FILES, HIG
13073544	COPY OF 13004282 - PAYMENT(S) FIELD NOT UPDATED CORRECTLY WHEN PAYMENT AMOUNT IS
13079745	FA UPLOAD PAGE WORKED BY DESCRIPTION IS NOT DISPLAYING
13079844	COPY OF 13061944 - XAI SERVICE CILXRQRP NEEDS TO BE JAVA BACKED, REWRITE CIPXRQR
13079954	80041 - SUPPORT USAGE REQUEST BASED CONSUMPTION FOR SUB-SAS
13082270	MESSAGE 6,13725 SHOWS AMOUNTS WITHOUT CURRENCY SYMBOL
13082826	WPTG_TBT:GBU:CNTXT:Q&A192490 - 1:INCORRECT WORDING IN STRING:CCB-CCB-2.3.1SP-D1
13089032	BUFFER BUSY WAITS IN BATCH BILLING
13097605	COPY OF 13097602 - CCB-MDM2: 80039 - SCALAR METER READ SYNC FROM CCB TO MDM
13113019	COPY OF 12965243 - CANCELLED BILL SEGMENTS WITH ZERO VALUE DO NOT REACTIVATE CLO
13114634	WPTG_TBT:GBU:CNTXT:Q&A 193251 - 1:WORD MISSING IN STRING:CCB-CCB-2.3.1SP-D1

Bug Fix	Description
13257780	COPY OF 13091206 - CANNOT INSERT CASE CHARACTERISTICS NUMBERFORMATEXCEPTION
13259054	COPY OF 13258363 - F1-SYNRQ FOR METER CONFIG WILL CRASH IF METER MANAGEMENT FC I
13262965	COPY OF 13262900 - CCB-MDM2 USAGE INTERVAL DATE TIME CALCULATION ISSUE
13321525	WSS MASTER CONFIGURATION BO SHOULD REFERENCE A NEW APPLICATION SERVICE
13322136	MOD 10108 - ADDRESS VALIDATION
13325103	COPY OF 11901395 - TD-FAUPL DOES NOT COMPLETE OPEN TO DO'S WHERE THE ERROR HAS B
13325786	COPY OF 13078295 - XAI INBOUND SERVICE EXTRACTFAINFO IS NOT PICKING UP THE ARREA
13325815	COPY OF 8773326 - BILL DATE IN BILL GRAPH ON CONTROL CENTRAL NOT DISPLAYED BASED
13325822	COPY OF 12976901 - V2301144;MEDIUM;CONFIGLAB: V2.3 EXISTENCE CHECK USING A SELEC
13325832	COPY OF 13025589 - ACCESS IS RESTRICTED TO THE USER THAT ESTABLISHED A TENDER CO
13325841	COPY OF 13096297 - BI 2.4 IT 3: D_TD_TYPE EXTRACTS FAILED WITH UNIQUE KEY VIOLAT
13345839	SERVICE QUANTITY VALUE IN THE HOW TO USE (SP) FIELD FOR CCB-MDM INTEGRATION
13355374	CMPS AND ARCH .BAT SCRIPTS INCLUDED WITH ENVSETUP.EXE FLIP FLOP -S AND -R PARAMS
13361403	COPY OF 13257031 - V230113 INCORRECT MESSAGE GENERATED BY THE CONFIGLAB PROCESS
13366092	COPY OF 12981726 - WPM GENERATING REFUNDS WHEN NOT ALL SAS HAVE A CLOSING BILL S
13392319	CHANGE OWNER FLAG ON SOME ELEMETS RELATED TO SYNC REQUEST
13398048	WPTG_TBT:GBU:CNTXT:Q&A195199 - 2:INCORRECT WORDING:CCB-CCB-2.3.1SP-D1
13447630	COPY OF 12568037 - V00951 CONFIGLAB: V2.3, CM_COPDB - DELETE DURING DB PROCESS M
13465211	COPY OF 13454404 - USAGE REQUEST - INVALID USAGE REQUEST USED TO GENERATE BILL S
13471621	COPY OF 13072843 - WRITE OFF DEBT TRANSFER ALGO TRANSFERRED MONEY TO SA WITH BLA
13515856	COPY OF 13515799 - AUTO PAY SOURCE CODE AND PAYOR ACCOUNT ID DEFAULTING PROBLEM

Bug Fix	Description
13520851	COPY OF 13108037 - COLLECTION LIMIT REACHED ON FA EXTRACT FOR COLLECTION PREM-G
13526189	CONVERT INBOUND SERVICES AND SCHEMAS TO CM
13539780	COPY OF 13533642 - DEGREE DAY SEARCH NOT RETURNING ALL AVAILABLE ROWS FOR A GIVE
13539804	COPY OF 13538956 - DOCUMENT NUMBER FIELD SIZE 14 ON BILL SEARCH SHORTER THAN DOC
13560238	COPY OF 13491319 - PREMISE HISTORY LIST NOT DISPLAYING PENDING STOP AND PENDING
13564663	COPY OF 13548179 - OFF CYCLE BILL GENERATOR INTERNAL SERVER ERROR WHEN LINKED AD
13572703	CONTROL TABLES - PHYSICAL BO'S
13573013	COPY OF 13061052 - WPTG_TBT:GBU:CNTXT:Q&A192243 - 1:INCORRECT WORDING IN STRING:
13577450	DB PROCESS DESCRIPTION CONTAINS 'CORDAPTIX' NAME, PLEASE REMOVE
13578826	COPY OF 13554176 - PREMISE ZONE DOES NOT REFLECT EXPECTED NEXT METER READ
13583037	COPY OF 13580035 - TENDER SOURCE COLUMN IS MISSING IN THE TENDER CONTROL S
13596985	COPY OF 10221853 - CSP-1582 - EO MBR SA W/ZERO BALANCE STOPPED, SHOULD BE CLOSED
13601526	COPY OF BUG 13529304 - CORRECTED READ INITIATED REBILLS FAILS TO BE FROZEN/COMPL
13607151	COPY OF BUG 13388445 - BS THAT CREATES/UPDATES AN ACCOUNT AUTOPAY RECORD SHOULD
13620700	COPY OF BUG 13586941 - METER REPLICATOR INSERTING SPACE IN BADGE NBR
13620995	COPY OF BUG 13554427 - USE SCHEDULE BILLING OPTION ISSUE
13631591	WPTG_TBT:GBU:CNTXT:Q&A199035 -33:BILL/BILLABLE CHARGE:CC&B 2.3 & 2.3.1
13642765	COPY OF 13058253 - SUPPORT USAGE REQUEST BASED CONSUMPTION FOR SUB-SAS
13648182	COPY OF 13648179 - UPDATE SYSTEM DATA DESCRIPTION: BATCH CONTROL, BUSINESS SERVI
13653117	COPY OF 12985358 - FIX FOR BUG 12587339 - C1-RECTD EXTRACT PROCES RUNNING LONG W
13683042	COPY OF 12665500 - ERROR RAISED WHEN ADDING A PAYMENT EVENT BECAUSE WE DON'T HAV

Bug Fix	Description
13683054	COPY OF 13015052 - ORA-01722 DURING EXECUTION OF CL-APPCH
13683061	COPY OF 13082331 - INCORRECT BADGE NUMBER LENGTH IN METER READ UPLOAD STAGING SE
13683065	COPY OF 13103720 - THE DESCRIPTION FOR THE ERROR WHEN PAYMENT TENDER CONTROL ID
13683069	COPY OF 13350344 - ALWAYS CHANGE ACCT DATE FREEZE OPTION NOT WORKING FOR ADJ WIT
13683073	COPY OF 13384221 - FAILED TO RETRIEVE THE ALGORITHM OF DB PROCESS INSTRUCTION
13697999	COPY OF 13386701 - ERROR IS ENCOUNTERED WHEN TRYING TO UPDATE SERVICE AGREEMENT
13698005	COPY OF 13397202 - [CCB 2.3.1] : CHANGE OF BEHAVIOR OF THE MODULE CIPZNMFN
13698016	COPY OF 13402489 - CIPRQCHX (CONSUMPTION HISTORY SQ ALGORITHM) ISSUE
13698025	COPY OF 13403947 - BAD PERFORMANCE ON METER READ SEARCH SCREENS (A.O. ON SP METE
13698062	COPY OF 13420344 - CRE-DTTM FIELD INVALID IN CREDIT AND COLLECTION PORTAL ZONE
13698069	COPY OF 13431953 - CIPQTDEN RAISES AN ACTION INVALID 5,201 ERROR WHEN CALLED WIT
13698072	COPY OF 13453285 - BSEG EXCEPTION IF RATE BREAK ON FIRST DAY OF BILL PERIOD
13698074	COPY OF 13464490 - ISSUES IN CCB 2.3.1 BI DEMO EXTRACTS FORMAT
13698076	COPY OF 13476433 - WFPRINIT OVERRIDES ERROR MESS CAT FROM CM WF PROCESS CRITERIA
13698078	COPY OF 13481574 - NEED TO PREVENT DEFAULTING ON SP TYPE CHANGE (SMART METER ROL
13698080	COPY OF 13489543 - CREATE SERVICE TO INVOKE CAMPAIGN ELIGIBILITY ALGORITHMS
13698082	COPY OF 13499777 - SASP BATCH PROGRAM: CIPCSAPB - S_ACCT SQL MISSING FETCH FIELD
13698088	COPY OF 13534270 - WRAP DISPLAY STATEMENTS IN CIPRRTVN PROGRAM
13698091	COPY OF 13568593 - CSS - SELF-SERVICE TASK PORTAL - UNABLE TO ADD
13698095	COPY OF 13572232 - START/STOP ERASES ADDRESS INFO WHEN BILL ROUTE ON ACCOUNT'S P

Bug Fix	Description
13698098	COPY OF 13609345 - WHEN SA ACTIVATES CHANGES IN START/ STOP ADDRESS REVERT TO OLD
13698104	COPY OF 13612659 - BILLED CONSUMPTION ZONE DISPLAYS MULTIPLE GRAPH FOR EACH BILL
13698109	COPY OF 13613649 - REQUEST TO INCREASE BATCH BILLING LIMIT OF OPEN BILL CYCLES T
13698114	COPY OF 13621895 - BASE SASP BATCH PROCESS IS MISSING THE DRILL KEY SA ID
13698116	COPY OF 13631516 - CSS: ADD METER READ MESSAGE
13705133	COPY OF 13093081 - FIX CHAR TYPE UI TO ALLOW CM CHAR VALUE
13720650	SERVICE TASK TYPE MAINTENANCE CHANGES
13729704	COPY OF 13497115 - {INFO} RATE COMPNT PROPERTIES NOT DEFAULTED IF BILL CALC LIN
13767464	[FW420] CCB 240 PREDEV COMPILATION ERRORS
13777537	COPY OF 13609986 - PASS GEO CODES ON QUERY FOR APPOINTMENTS
13785094	CREATE BUSINESS COMPONENT FOR COBOLNUMBERFORMATWRAPPER
13785111	CREATE BUSINESS COMPONENT FOR COBOLDATETIMEWRAPPER
13789812	RETRIEVAL OF CHAR AND AUTOPAY COLL FOR ACCOUNT IS IN INCORRECT ORDER
13790271	RELATED FK CHARS FOR MO LOG ENTRIES ARE HARD CODED ON THE ZONE PARAMETER
13815295	MAKE SURE CM-INPUTCHARACTERISTICSGEOCODESCOLLECTION.XML IS UPGRADE SAFE IN 2.4
13819802	{INFO}INFORMATION ON DASHBOARD DOES NOT MATCH
13826616	ADD INDEX ON FIELD COLL_PROC_ID ON TABLE CI_SEV_PROC
13849078	INCREASE THE COLUMN LENGTH EXT_REFERENCE_ID FROM 30 TO 36
13855554	COPY OF 13771989 - DUPLICATING PAYMENT EVENT UPLOAD STAGING THROWS AN ERROR
13855561	COPY OF 12968674 - BILLING RUNS SLOW - LICENSE CHECK WHEN RETRIEVING SYS DTTM
13855575	COPY OF 12882319 - IB-SPDB QUERY CAUSING DEGRADING PERFORMANCE

Bug Fix	Description
13855581	COPY OF 13403269 - PRODUCT CATALOG (CCB-SBL) - NEW ORDER SERVICE
13855587	COPY OF 13505760 - CONFIGLAB: BILL FACTOR VALUE - DELETE MISSING RI VALIDATION
13855596	COPY OF 13611755 - 80037 MWM - CCB ACTIVITY COMPLETION INTEGRATION
13855601	COPY OF 13635441 - CAMPAIGN COMPLETION ERROR WHEN THE USER HAS ONLY "INQUIRE" AC
13855606	COPY OF 13645856 - PERSON'S LANGUAGE NOT PASSED INTO BUILD DESCRIPTION (SUBSTITU
13855608	COPY OF 13650984 - ZERO-SUPPRESSION FOR %Q BILL DISPLAY FIELD NOT WORKING FOR ZE
13855618	COPY OF 13652578 - CSS201 - CCB ENHANCEMENTS REQUIRED FOR SELF-SERVICE 2.0.1
13855619	COPY OF 13688494 - PRINT OPTION IN THE BASE REPORTS
13855624	COPY OF 13690812 - GENERATE NEW PAGE DRIVER FOR UOM BASED ON UPDATED TEMPLATE
13855629	COPY OF 13711132 - C1-FTGL EXTRACT HAS MISSING FREEZE_DT AND USERID AND
13855633	COPY OF 13717676 - READ DATES SHOULD BE SAME FOR ALL THE REGISTERS OF ALL THE SP
13855637	COPY OF 13718206 - DEPOSIT NOT CALCULATING CORRECTLY ON ACCOUNTS WITH MULTIPLE P
13855641	COPY OF 13718487 - SA STOPPED MID MONTH AFTER USAGE REQUEST SENT TO MDM FOR ENTI
13855647	COPY OF 13723710 - ORDER'S PREMISE FIELD "TREND AREA" IS NOT AUTO POPULATED
13855652	COPY OF 13728396 - SYSTEM ERROR WITH CM JAVA INSTALLATION OPTIONS OVERRIDE PRORA
13855653	COPY OF 13738693 - PERSON PHONES GRID NOT SHOWING FORMAT WHEN ALGO HAS MULT EFFE
13855656	COPY OF 13781037 - ADD SA CREATION RULE TASK TYPE VALIDATION ALGORITHM
13855658	COPY OF 13809420 - BALANCE CONTROL DISPLAYS THE RECORDS IRRESPECTIVE OF CIS DIVI
13873438	CHANGE C1-OUTBOUNDMESSAGE DA WITH F1-OUTBOUND MESSAGE DA
13874889	COPY OF 13789758 - CSS201 - SETUP BILLING NOTIFICATION PREFERENCES REFERENCE ID
13898535	11748 CREDIT CARD DATA SECURITY T COPY BOOK CHANGES

Bug Fix	Description
13900414	MISSING SOME LOOKUP VALUES FOR F1_SYNC_REQ_DISCARD_RSN_FLG
13913044	DELETE DUPLICATE CONSTRAINTS
13921555	COPY OF 13901473 - WPM BATCH HAS SQL ERRORS FOR ACCOUNTS WITH MULTI SITES
13921564	COPY OF 13866985 - BILLING PROCESS CHANGE AFTER APPLYING CCB 2.3.1 SP4 (PATCH 12
13921571	COPY OF 13721419 - VALUES LIKE 99999999999.9999999 DO NOT FIT INTO FORMATS LIKE
13921576	COPY OF 13687859 - FACOMPL PROCESSES RECORDS IN AN INCORRECT ORDER
13921605	COPY OF 12839645 - CONFIGLAB: NEXT BATCH NUMBER NOT BEING UPDATED CORRECTLY DURI
13921621	COPY OF 13511366 - CCB C1-BNBAS BATCH DEADLOCK
13934313	NEED INDEX ON BASE TABLE CI_INTV_DATA_SET
13945423	COPY OF 13874096 - METER READ MO AUDIT ALGORITHMS NOT EXECUTED DURING BATCH PROC
13953187	11349 CONFIGURABLE EXTRACTS
13960666	COPY OF 8312561 - FILE NAME PATH IS TRUNCATED IN LTRPRT BATCH JOB
13963590	MOD 11747 - V2 RATE SCHEDULE DUPLICATE OPENS ORIGINAL RATE SCHEDULE AFTER SAVE
13963597	MOD 11747 - V1 RATE SCHEDULE DUPLICATE DOES NOT INCLUDE RATE VERSIONS
13963675	MOD 11747 - CALCULATION GROUP INFO ON CUSTOM SEARCH NOT DISPLAYED
13963711	MOD 11747 - INCORRECT VALIDATION ENCOUNTERED WHEN CREATING/DELETING SUMMARY RULE
13963729	MOD 11747 - SOME SECTIONS ARE NOT BEING COLLAPSED IN SUMMARY RULE DISPLAY
13963759	MOD 11747 - APPLY-TO RULE DISPLAY/MAINTENANCE MAP ISSUES
13963805	MOD 11747 - APPLY TO RULE SEASONAL VALIDATION IS NOT WORKING
13964694	MOD 11747 - ERRORS ENCOUNTERED WHEN CREATING A FLAT CHARGE RULE
13964861	MOD 11747 - CALCULATE FINAL VALUES DISPLAY MAP SECTIONS NOT COLLAPSING
13968304	MOD 11747 - CALC LINE CATEGORY TYPE MAINTENANCE MAP ISSUES

Bug Fix	Description
13968557	MOD 11747 - CALCULATION LINE CATEGORY TYPE LIST IS CASE-SENSITIVE
13969692	MOD 11747 - LIST HAS 2 REFERENCES WITH THE SAME KEYS [].
13969864	MOD 11747 - UNABLE TO SAVE CALC RULE ELIGIBILITY CRITERIA
13969990	MOD 11747 - SORT CALCULATION RULES LIST BY EXECUTION SEQUENCE
13973350	MOD 11747 - CALC LINE CATEGORY VALUES DROPDOWN
13973504	MOD 11747 - SEASONAL DETAILS ARE DISPLAYED WHEN SEASONAL IS BLANK
13973893	MOD 11747 - MATH MAINTENANCE/DISPLAY MAPS' ISSUES
13974245	MOD 11747 - DIVIDE BY 0 ON CALCULATEFINALVALUEALGCOMP TRACE
13975019	MOD 11747 - DISTRIBUTION CODE/ REVENUE CLASS DISTRIBUTION MISSED VALIDATION
13979055	MOD 11747 - CALC LINE CATEGORY LIST'S FILTER SHOULD NOT INCLUDE CHARACTERISTICS
13981138	COPY OF 13925345 - MRRA DOES NOT CREATE EXCEPTION RECORDS FOR ALL REMARK ERRORS
13999483	MOD 11747 - V1 RATE SCHEDULE DUPLICATE DOES NOT INCLUDE CHILD LISTS
14007932	COPY OF 13894431 - CUSTOMER NAME FOR FIELD ACTIVITY IS NOT PROPERLY PASSED TO FW
14007951	COPY OF 13936320 - NEGATIVE SQ LOSES NEGATIVE SIGN WITH JAVA OVERRIDE PRORATION
14009595	MOD 11747 - RATE SCHEDULE BILL MESSAGE DISPLAYS ERROR WHEN END DATE BLANK
14013858	COPY OF 13985328 - CONCURRENCY ERROR DURING RUNNING LATEPYMT BATCH IN CCB 2.3.1
14017606	11231 4000 CHARACTERS IN COMMENT FIELD NOT ACCEPTED
14017653	11231 UNABLE TO IMPORT FIELD ACTIVITY WSDL TO SOAP UI
14019566	MAKE XT233S1 INDEX UNIQUE ON CI_INTV_DATA_SET
14020779	11740 - ENCOUNTERED GETELEMENTBYID() IS NULL ERROR FOR TOU MAP ID QUERY
14020793	11740-"SHOW LASTEST 100 TOU MAP DATA" NOT DISPALYED ON TOU MAP DATA LIST ZONE
14020798	11740-ERROR NOT DISPLAYED ON TOU MAP DATA MAINTENANCE UI MAP WHEN TOU IS INVALID

Bug Fix	Description
14022830	11740-MONITOR PROCESS IS MISSING FROM STATUS ACTIVE OF BO C1-TOUMAP
14027088	COPY OF 14004432 - 80037:EXCHANGE METER WITH CHANGE METER DATA FA THROWING "CO
14032890	BILLSEGMENT COBOL DATA MAPPER THROWS ENTITY NOT FOUND ERROR DURING REGEN
14033663	MOD 11747 - RATE SCHEDULE ADD - PRESENTS UI TO SELECT BO - NOT EXPECTED
14034230	MOD 11747 - RATE SCHED MO OPTION TYPE VALUE MISSING SEARCH BUTTON
14034547	COPY OF 13956314 - RETIRED METERS SYNC ISSUE
14034560	COPY OF 13956630 - ADD XSL TO REMOVE ENVELOPE OF MDM RESPONSE MESSAGE
14036717	COPY OF 13403624 - BUDGET BILLING RECURRING CHARGE CONFUSION
14038521	MOD 11747 – HISTORIC PERIODS AND START/END MONTH/ DAY ARE ALL REQUIRED
14038913	MISSING FK REF FOR MO OPTIONS
14043215	COPY OF 14029726 - SORTING FUNCTION REQUIRED ON CUSTOMER CONTACT TYPE PAGE'S POP
14045778	MISSING $#LEXC ON ZSQLN COPYBOOK DEFINITION
14049715	MOD 11747 - INCORRECT PARAMETER SUBSTITUTION ON ERROR MESSAGE (4, 11612)
14050431	MOD 11747 - RATE SCHEDULE UI MAP NOT CONSISTENT WITH ED PLUS FIELD LENGTH ISSUES
14050895	MOD 11747 – JAVASCRIPT FUNCTION DISABLEELEMENT DOES NOT DISABLE DROPDOWNS
14051942	MOD 11747 - DUPLICATING A CALCULATION GROUP NAVIGATES TO A BLANK PAGE
14053420	COPY OF 13998538 - CSS2 - CSS PAYMENT ISSUE
14053424	COPY OF 14021161 - SYNC REQ PRE-PROC ALGOS SHOULD HANDLE DELETE AND CAN BE CALLE
14054604	MOD 11747 – ERROR WHEN THE "MISSING VALUE ACTION" VALUE IS "SKIP" OR "CONTINUE"
14054746	MOD 11670 – PAGE IS HANGING WHEN SETTING "OR SELECT FUNCTIONS" VALUE TO BLANK
14055975	11231- XAI REQUEST SUBMISSION WITH ADD ACTION RETURNS A RESPONSE WITHOUT DESCRLO
14060127	MESSAGE WINDOW IS HANGING

Bug Fix	Description
14060959	MOD 11670 – RATE CHECK RESULT PAGE ISSUES
14061878	11556 - INTERNAL SERVER ERROR RETURNED
14068254	ADJUSTMENT CLOB DATA AREA IS SAVED IN XML COMPACTED FORMAT
14069077	CCB-SBL: UNABLE TO SAVE AUTOPAY WITH NO EXPIRE DATE
14069125	CCB-SBL: UNABLE TO DELETE CONTACT WITH PERSONADDRESSOVERRIDE
14073421	INTRODUCE A PRE-PROCESSING ALGORITHM IN CCB THAT POPULATES THE SOURCESYSTEM
14073541	11740- OVERRIDE TOU MAP TEMPLATE'S SPI IS NOT USED WHEN GENERATING TOU MAP DATA
14077009	MOD 11747 - POST-PROCESSING CALC GROUP FOR TAXES NOT CREATING SEP BSEG HEADER
14078773	11740-ERROR MESSAGE STILL DISPLAY WHEN SELECTING A VALID TOU.
14079383	00000 - PERSON FILTER DISPLAYS MORE THAN 50 ROWS OF SEARCH RESULTS
14080027	00000 - MULTIPLE CUSTOM SEARCH ZONE DISPLAY MORE THAN 50 ROW OF SEARCH RESULTS
14081747	MOD 11747 – SP JAVA ERROR "NOT A NUMBER: 150" FOR CALCULATE SERVICE QUANTITY C R
14081909	10412 PPB IT - TRANSFER DEBT TO PPB MAP TITLE IS WRONG
14081935	10412 PPB IT - CHECK PPB'S SA STATUS - NO NEED FOR LAST STEP TO TERMINATE
14081970	10412 PPB IT - DELETE UNUSED FIELDS
14082000	10412 PPB IT - TRANSFER DEBT TO PPB - ERRORS AND WARNING NOT SHOWN IN THE MAP
14082049	10412 PPB IT - CREATE PREPAY BILLER - VALIDATE THAT THE SERVICE TASK TYPE PARM
14082068	10412 PPB IT - DELETING A BILL SEGMENT DOES NOT UPDATE PPBS
14083133	10412 PPB IT - ARREARS DATE OF THE PPB REQUEST FUND ADJUSTMENT'S FT NOT SET
14084043	11740-WHEN TOU MAP IS DELETED, THE PAGE STILL DISPLAY&TABS ARE STILL AVAILABLE
14087772	POSTAL DEFAULTING ON UI MAP
14094765	CANNOT DELETE A REGISTER
14098902	10412 PPB IT - DETERMINE TOPUP ALGORITHM NEEDS TO ADD MO LOG FOR FUND REQUESTS

Bug Fix	Description
14098934	MOD 11747 – ERROR "DECIMAL POSITIONS FIELD MISSING"
14099357	10412 PPB IT - DETERMINE TOPUP ALGORITHM - NO NEED TO SET CURR BAL TO ZERO
14102393	MOD 11747 - SQ ENTRY ADDED EVENTHOUGH UOM/TOU/SQI DOESN'T MATCH
14103456	COPY OF 13972525 - RENAME "SIEBEL INTEGRATION..." OBJECTS TO "SERVICE TASK..."
14104161	MOD 11747 – JAVA ERROR FOR CALCULATE SERVICE QUANTITY - HISTORICAL QUANTITY CALC
14109515	MOD 11747 – ERROR FOR CALCULATE SERVICE QUANTITY - CALC LINE CALCULATION RULE
14109987	MOD 11747 - CALCULATION GROUP UI ISSUES
14110039	10412 PPB IT - NON-CYCLICAL USAGE NOT TRANSITIONED AFTER BS IS GENERATED
14110294	COPY OF 13951641 - ACCOUNT INFO BUTTON (ALT+I) CAUSES CCB SCREEN TO "FLICKER"
14110392	10412 PPB IT - DETERMINE TOPUP ALGORITHM - FUND REQ ADJ CREATED WITH ZERO AMOUNT
14115095	MOD 11747 – ERROR "IS REQUIRED" IS DISPLAYED FOR ITEM TYPE CALCULATION RULE
14115629	MOD 11747 - CALC LINE CATEGORY TYPE UI ISSUES
14119635	COPY OF 13991444 - INCORRECT ACCOUNTING DATE SET BY BATCH PROGRAM PERFORMING PAY
14119649	COPY OF 13829822 - WRITE OFF BY DIST CODES CREATES ADJUSTMENTS WITH INCORRECT AM
14119653	COPY OF 14004249 - CSS201 - CCB ENHANCEMENTS POST RELEASE CHANGES
14119658	COPY OF 14021661 - RUNNING C1-BLCMP WITH LOCALIZATION IS TAKING 10 TIMES AS LON
14119664	COPY OF 14034109 - DISPLAY MAPS NAVIGATING TO SERVICE TASK TYPE PORTAL TWICE
14120451	10412 PPB IT - PPB TASK TYPE MAPS LAYOUT CHANGES
14121833	MOD 11747 - BASE AMOUNT IS NOT PROPERLY REFLECTED FOR 'APPLY TO' RULES
14122849	C1FACOMPLETIONEXTSYSSTRUCT ELEMENT NAME WAS MODIFIED
14125065	COPY OF BUG 13952900 - BS/ZONE THAT RETRIEVES LIST OF SERVICE TASK TYPES SHOULD
14128989	MOD 11747 - CALC RULE 'APPLY TO DETAIL' UI ISSUES (RETEST FW BUILD 021 14524888)

Bug Fix	Description
14129137	10412 PPB IT - DET BS SCHED ALGO - NON-BD SA NOT PASSED TO DET CONSUMP PERIOD
14134611	10126346: CUSTOMER ID IS TRUNCATED IN PAYMENT UPLOAD STAGING
14136617	COPY OF 13994834 - ERROR IN LETTER EXTRACT BATCH
14136623	COPY OF 14113214 - ERROR IN CIPMUP2B (MUP2 BATCH JOB)
14137368	MOD 11747 - CHAR VALUE PARAMETER IS MISSING ON ERROR MESSAGE
14138219	COPY OF 13974310 - ISSUE WITH PAYMENT TRANSFER
14138508	11739-NEM FT GL CREATION ALGORITHM SHOULD SUMMARIZE FTS BASED ON DIST CODE
14138510	MOD 11747 – SA ID PARAMETER SUBSTITUTED WITH PREMISE ID
14139076	SEARCH BY EXTERNAL ID DOESN'T WORK IF BOTH EXTERNAL ID AND SERVICE TASK TYPE CO
14142670	11739-NEM FT GL COBOLWRAPPER NOT INITIALIZING FT COLLECTION
14148781	MOD 11747 - SEASONAL PERIOD VALIDATION ERROR
14148802	MOD 11747 - CALCULATE SERVICE QUANTITY UI ISSUES
14152785	COPY OF 13931147 - SYSTEM ERROR AT BILL COMPLETION FOR ACCOUNTS WITH ADJUSTMENTS
14154539	COPY OF 13365573 - OM02246;HIGH;BATCH JOB FOD DOESN'T USE VERSION# TO IDENTIFY O
14154974	MOD 11747 – INCORRECT CALCULATION FOR PRORATE METHOD "ACCOUNTING DATE"
14155063	CONVERSION: UPDATE INSERTION TEMPLATE TO HANDLE SRCH_CHAR_VAL FIELDS PROPERLY
14160139	10412 - NULLPOINTER ON DET PREPAY BAL ALGO FOR INCOMPLETE PAYOFF RELIEF INFO
14164504	MOD 11747 - ITEM TYPE CALC RULE - REQUIRE AT LEAST ONE ITEM TYPE ENTRY
14165100	MOD 11747 RATE ENGINE - FUNCTIONAL REVIEW
14165118	MOD 11670 RATE CHECK - FUNCTIONAL REVIEW
14165853	MOD 11747 - SQ - MULTIPLE SEASON ROWS HANG SYSTEM (RETEST FW BUILD 021 14524888)
14170489	10412 - DUPLICATE, UNUSED FIELDS
14171185	MOD 11747 - STEPPED SQ UI MAP ISSUES (RETEST FW BUILD 021 14524888)

Bug Fix	Description
14173567	PREMISE PAGE DISPLAYING LABELS IN BOLD/DIFFERENT SIZE UNLIKE OTHER FIELDS
14174158	ERRORS ENCOUNTERED WHEN ADDING ISSUING CENTER
14174828	COPY OF 14164043 - DE MINIMIS RULE NOT WORKING WITH USAGE REQUEST BILLING
14175318	11747 - DELETE LOOKUP TOU_CALC_FNC_FLG
14176283	MOD 11747 - MINIMUM / MAXIMUM / FLAT CHARGE UI ISSUES
14179610	10412 – ERROR NO BILL CYCLE SCHEDULE
14181994	COPY OF 12387737 - ASSET INVENTORY RELATED SCREEN ARE RESPONDING VERY SLOW
14183005	10412 FR - ADJ TYPE SEARCH SHOULD RETRIEVE AND DISPLAY THE FIRST 50 RECORDS
14187295	10412 - CONVERT PPB TASK TYPE TO USE UI HINTS
14187465	COPY OF 14176652 - NEW LOCATION HISTORY IS ALLOWED TO BE CREATED EVEN IF ITEM IS
14187803	MOD 11747 – STEP MULTIPLIER ALGORITHM IS NOT EXECUTED
14188183	10412 FR - ADD VALIDATION THAT PAYOFF RELIEF INFO MUST BE COMPLETE ON PPB TYPE
14188273	10412 FR - SECOND RESULT COLUMN OF SERVICE TASK SEARCH SHOULD BE "SERVICE TASK"
14188321	COPY OF 14126157 - WRONG PAYMENT DISTRIBUTION BY CIPPDOIX ALGORITHM
14188600	COPY OF BUG 14140091 - FIELD ACTIVTY CREATED FROM METER READER REMARK, FA COMMEN
14189379	COPY OF 14102557 - BATCH JOB SEC NOT WORKING PROPERLY
14190259	SA SYNC REQUEST IS NOT INSTANTIATED WHEN CREATING NEW SERVICE AGREEMENT.
14193820	MOD 11747 - MATH CALC RULE UI ISSUES (RETEST FW BUILD 021 14524888)
14194888	WSS DEPRECATED. REMOVE WEB SELF SERVICE TAB
14195139	10412 FR - PPB TYPE REQUIRED FIELD VALIDATION IN WRONG ORDER IN MAINT MAP
14195375	SYNCHRONIZED SYNC REQUEST DOES NOT TRANSITION RELATED USAGE TO AWAITING BILL DET
14196104	ORDER PAGE/MAIN TAB - DISPLAY ERROR 500 - INTERNAL SERVER ERROR
14198282	COPY BUG FOR BUG 13624381 - MDM VERSION 1 - CORRECTED READ REBILL FUNCTION

Bug Fix	Description
14198615	BILL SEGMENT NOT SHOWING EXPANDED MESSAGE WITH SUBSTITUTION PARM
14200369	MOD 11747 - CALC RULE SEARCH DOES NOT HAVE VALUES IN QUERY OPTION DROPDOWN
14200461	MOD 11747 - CONTEXT MENU RATE CHECK FROM RATE VER DOES NOT DEFAULTRATE SCHEDULE
14202824	MOD 80041 - SUB BILL SEGEMENT GO TO BUTTON TO NAVIGATE TO MASTER BILL SEGMENT)
14208358	MOD 80041 - SUB BILL SEGMENT FOR NON BD IS NOT CREATED WHEN MASTER SA HAVE A COM
14209190	MOD 11747 - STEP SUMMARY IS STILL BEING CREATED EVEN IF CREATE OPTION IS BLANK
14211701	COPY OF 13835992 - CCB - BILLING BATCH SLOWS WAY DOWN - HIGH CPU
14211704	MOD 11747 – SUM AND TAXES NOT CALCULATED WHEN CALC AMT GREATER THAN THE MIN AMT
14212217	MOD 11747 – JAVA NULL POINTER EXCEPTION FOR MINIMUM CHARGE
14214004	MOD 80041 - THE GENERATE, DELETE AND FREEZE BUTTONS ARE ENABLED FOR BD SUB BILL
14222101	ADD CCB-SPECIFIC F1_SVC_TASK_CL_FLG LOOKUP VALUES BACK TO CCB
14222929	COPY OF 14185824 - MAX LIMIT REACH AT C1-BNBAS BATCH
14223335	USAGE REQUEST - DATE BREAK LIST
14224527	11697-SERVICE POINT ID & FA TYPE FIELDS ARE DISABLED IN FA PAGE
14225885	MOD 80041 - AFTER DELETING A PENDING BILL I'M GETTING AN ERROR WHEN ADD NEW BILL
14227143	11739-NEM ADMIN MAP TO USE UI HINTS
14229203	ERROR SENDING SYNC REQUEST ACKNOWLEDGEMENT DUE TO THE NEWLY ADDED STATUS REASON
14230891	MOD 80041 - INVALID PLUG-IN SCRIPT 'ZZ-TDTEST' ASSOCIATED TO 'C1-CORRRDTD' ALGOR
14233032	COPY OF 6091173 - SR# CCB-1210# ADDING NEW ITEM TYPE WITH UOM OKWH ITEM DESCRIP
14233725	COPY OF 14141901 - PUPL PERFORMANCE DEGRADATION WITH ROW LOCK
14239914	MOD 11747 – PRORATION WAS NOT CALCULATED FOR MAXIMUM CHARGE

Bug Fix	Description
14247146	FA UPLOAD STAGE STEPS: INDENTATION NOT THE SAME FOR ALL STEPS
14247193	11697-MISSING 'TASK TYPE' TITLE IN THE SR MASTER CONFIGURATION
14256905	COPY OF 14054504 - PERFORMANCE ISSUE IN C1-BNBAS
14256998	MOD 11747 – "PRINT" CHECK BOX IS NOT CHECKED ON CALC LINE FOR FLAT CHARGE
14257943	COPY OF 14247195 - JAVA-ENABLEMENT OF CIPPUPFN ROUTINE
14262863	COPY OF 14254156 - BI : REQUEST FOR BPA SCRIPT TO NAVIGATE TO CCB FROM BI
14267196	MOD 80041 - THE CYCLICAL BILLING USAGE REQUEST STOPS AT AWAITING DATA SYNC EVEN
14270537	COPY OF 14183773 - INVALID UOM/INTERVAL REGISTER TYPE COMBINATION ON METER CONFI
14274342	MOD 11747 - RATE CONTEXT MENU (+) ADD FUNCTIONS INCORRECTLY NAVIGATE TO CTR CNTL
14274895	10412 - DUPLICATE RELATED TRANSACTION BO DISPLAYED IN PPB TASK TYPE DISPLAY MAP
14275677	GRAY BAR UNDER 'FIELD 1' AND 'FIELD 2' IN SELF-SERVICE INTEG DISPLAY MAP
14276541	ERROR MESSAGE DISPLAYED ON CALCULATION GROUP ADD PAGE ON FUNC2 ENV
14277722	MOD 80041 - THE USAGE RELATED TO SUB BILL SEGMENT IS BEING DELETED WHEN SENDING
14293236	CORRECT JAVA NAME OF LOOKUP FIELD CORRECTED READ CANCEL REASON
14293618	COPY OF 14278951 - BATCH CODE : CIPHFGLB - PERFORMANCE ISSUE
14301438	MOD 11747 - BSEG ERROR CALC SQ CALC RULE (RETEST FW BUILD 021 14524888)
14304603	COPY OF 14154544 - UNABLE TO DELETE SA SP RECORD, SQL ERROR ENCOUNTERED
14304617	COPY OF 14062084 - SYNC REQUEST SEARCH BY NAME DOES NOT WORK IF THE ACCOUNT ONLY
14304620	COPY OF 14077961 - VIEW ACCOUNT LIST - NO CHECKING OF FILTER VALUE
14304627	COPY OF 14085775 - MISSING SCHEMA CONSTANT LOOKUP
14304655	COPY OF 14103240 - TO DO RELATED CHARS FOR SYNC REQUESTS ARE NOT BEING CREATED

Bug Fix	Description
14304670	COPY OF 14109327 - FAVORITE LINK - ACCOUNT INFORMATION DOES NOT WORK CORRECTLY
14304678	COPY OF 14118681 - INCORRECT SP TYPE IS BEING DISPLAYED IN THE ERROR MESSAGE UPO
14304681	COPY OF 14136838 - CHANGE CONTROL CENTRAL SEARCH FACTOR TO A CONFIGURABLE LIMIT
14310023	THE VALUE DISPLAYED IN CUSTOMER MAINTENANCE TASK IS THE SERVICE TASK ID INSTEAD
14312863	COPY OF 14155533 - BILL GENERATE INTO COMPLETE IF A MR FAILED HIGH-LOW CHECK WHI
14321169	SA REL ID GO TO BUTTON IN BILL SEGMENT PAGE IS NOT WORKING. AN ERROR "THE SERVER
14321928	11697-SERVICE REQUEST INTEGRATION 'INCORRECT ERROR MESSAGE'
14327635	MOD 80041 - BATCH JOB C1-USGDF RETURNS JAVA.LANG.NULLPOINTEREXCEPTION
14329340	APPOINTMENT PAGE DOES NOT PROPERLY DISPLAY THE FA W/O APPOINTMENTS RECORD AND T
14331132	COPY OF 13542278 - CCB COBOL QUERY PERFORMANCE ISSUE DUE TO RECOMMENDED CHANGES
14333706	REGENERATE ROW MAINTENANCE TO PASS "BEFORE" AND "AFTER" COPYBOOKS
14333949	ALERT ALGO "RETRIEVE OPEN SERVICE TASKS" CAUSING REDUNDANT SERVICE TASK ALERTS
14347716	MOD 80041 - NON-BD SUB BILL SEGMENT IS DELETED IF AN ERROR IS ENCOUNTERED ON BIL
14348656	10412 – BILL ID IS MISSING EXPERIENCED ON CLOSING BILL SEGMENT
14350829	MOD 11747 - ROUNDING ISSUE ON SEASONAL CALC LINES PROATE METHOD: PRORATE
14351138	FA PAGE DOES NOT HIDE/SHOW FIELDS CORRECTLY
14351413	COPY OF 14330437 - RETRY UNTIL DATE TIME IS REQUIRED FOR ONLINE BILL WITH USE SC
14351632	COPY OF 14185848 - V2.3.1 SF-SUNAPP-30.US.ORACLE.COM:8700/ SPL/ SEARCH ON CTRL CE
14352210	11697-MINOR ISSUES(SR QUERY,FA SR PORTAL,FA IN CANCEL STATUS)
14356711	COPY OF 14355948 - CCB ALLOWS UPDATES ON FA CHARACTERISTICS FOR COMPLETED FAS
14356838	COPY OF 14348543 - USAGE REQUEST ALLOWS ESTIMATES EVEN THOUGH SA DOES NOT

Bug Fix	Description
14357775	INITIAL INSTALL ISSUES
14361343	PARAMETER COPYBOOK 1 IS NULL ERROR
14361580	MOD 11747 - SEASONAL STEPPED SQ ANNUAL RATES NOT WORKING AS EXPECTED
14361744	MOVE USAGE SKIP INFO TO THE PARENT USAGE BO TO CATER FOR BOTH ONLINE AND BATCH
14362534	MOD 11670 – NO VERTICAL SCROLL FOR CALC LINES THAN HAVE MORE THAN ONE CALC HEADE
14367164	MOD 11747 – "BILLABLE SERVICE QUANTITY" VALUE IS "0" FOR CALC RULE "ITEM TYPE"
14367226	MOD 11747 – "DISTRIBUTION CODE" VALUE IS BLANK FOR CALC RULE "ITEM TYPE"
14368382	CSS2 - ERROR IS ENCOUNTERED IN WXGETSELFSERVICELABELS SERVICE
14368803	MOD 11747 - PREFERRED DISCOUNT NOT APPLIED ON V2 RATE SCHEDULE
14372970	NEM FR ISSUES
14374422	11697-FA SYNC REQUEST -CANCEL REASON IS MISSING
14377924	COPY OF 14308750 - PROBLEM DUE TO THE CHANGE OF THE MODULE CIPFGLEB INTRODUCED B
14379539	11697 - UNABLE TO ADD SERVICE TASK TYPE - UI MAP SCHEMA ERROR THROWN
14389394	MOD 11747 – JAVA NULL POINTER EXCEPTION FOR APPLY TO
14389569	MOD 11747 – TAX EXEMPT "T" VALUE IS NOT DISPLAYED ON DESCR ON BILL FOR APPLY TO
14390689	10412 – TRANSFER DEBT UI MAP SA INFO LEFT JUSTIFIED
14394866	MOD 11670 – TWO SAME ERROR MESSAGES IS DISPLAYED ON THE RATE CHECK PAGE
14397645	10412 – PAYMENT AMOUNT FIELD MISSING
14401569	10412 – STILL CREATED PAYMENT TENDER TYPE IS NOT AUTOPAY
14401733	MOD 11747 - CALC FINAL READ RULE DID NOT CALC SQ INITIAL/BILLABLE SQ CORRECTLY
14401959	COPY OF 13994254 - LACK OF WARNING MESSAGE WHEN ACCOUNT'S MAILING PREMISE ID IS
14402712	10412 – NO VALIDATION FOR INVALID SA TYPE IN ALGO TYPE C1-OVPY-PPSA
14405987	DUPLICATE BUS_OBJ_OPT_FLG LOOKUP VALUES FOR EXT SYSTEM AND OUTBOUND MSG TYPE

Bug Fix	Description
14407580	COPY OF BUG 14309931 - LATE PAY CHARGE SWITCH IS ON FOR CREDIT NOTE BILLS.
14407623	10412 – UPDATE OF PREPAID SMART METER FLAG DISABLING ADJ TYPE
14458762	COPY OF BUG 14251106 - DOCUMENT NUMBER IS MISSING ON PAY EVENT INFO
14458965	JAVASCRIPT ERROR WHILE MOVING TO CASE TYPE PORTAL FROM TO DO SEARCH PORTAL
14459452	DB PROCESS - OWNER FLAG IS REQUIRED FOR PRIMARY INSTRUCTION
14461709	COPY OF 14011727 - UNABLE TO USE APPLYCM AFTER INSTALLATION CC&B SP4 DUE TO LOOK
14461711	COPY OF 14186168 - BILL OPTION AND ALLOW ESTMATES CHANGES ON OCBG FORCED REBILL
14461716	COPY OF 14389570 - ORDER COMPLETION NEW PREMISE CREATION ISSUE
14463644	COPY OF 14382472 - EXTRACT FILES NAME WRONG IN DEMO 2.3.1 FOR C1-RECTD
14463818	MOD 11747 - WRONG ERROR MESSAGE WHEN TRYING TO CHANGE SERVICE TYPE ON RATE SCHED
14463915	MOD 11747 - SERVER ERROR TRYING TO CHANGE CURRENCY ON V1 RATE SCHEDULE
14466611	SUBMISSION OF REPORTS FROM CCB RETURNS ERROR "FILE DOES NOT BEGIN WITH '%PDF'
14468255	MOD 11747 – ERROR IF MISSING VALUE ACTION VALUE IS SKIP CALC SERVICE QNT HISTORI
14468856	MOD 11747 - VALIDATION ON CHANGE OF SUBRATE LINKED TO PRIMARY NOT WORKING
14469301	MOD 11747 - ERROR MESSAGES NOT SUBSTITUTING VARIABLES
14471253	THERE ARE SOME ISSUES IN SA CREATION RULE MAINTENANCE UI MAP
14471755	MOD 11747 - ERROR IMPORTING BUNDLES FOR CALC GROUP
14474791	COPY OF 14204124 - TOOL TIPS ON BILL SEGMENT PAGE SHOW # WHEN USER HOVERS OVER T
14474796	10108 - INCONSISTENT DISPLAY OF VALIDATE BUTTON IN ORDER PAGE
14475060	10412 – ERROR IN BATCH F1-STKDF MIN BAL NOTIF EMAIL AND NO EMAIL DEFINED IN PERS
14475372	10412 – BATCH F1-STKDF ERROR MIN BAL NOTIF SMS AND NO SMS IN PERSON

Bug Fix	Description
14475670	10108 - ADDRESS VALIDATION NOT WORKING PROPERLY IN STARTSTOP PAGE
14475826	10108 - EXTRA LINE DISPLAYED IN BILL ROUTING PAGE USING IE8 BROWSER
14478968	COPY OF 14462092 - COPY ADJUSTMENT DETAILS ROUTINE DOES NOT COPY ADJUSTMENT CHAR
14489111	COPY OF 14406270 - BILLABLE CHARGE ONE TIME SA CREATED CLOSED WHEN SA CREATION A
14490171	CSS2 - USAGE DETAILS ERRORS
14491036	COPY OF 14489971 - ADD THE ABILITY FOR COBOL TO REMOVE SAVEPOINTS
14493306	CALENDAR ICON ISSUES ON HIDE, DISABLE AND DISPLAY
14496257	COPY OF 14141949 - COLLECTION AGENCY PAID HISTORY RECORD CREATED WHEN WRITE OFF
14496903	10412 - ERROR WHEN TRYING TO UPDATE A PPB WITH DELETED LATEST BILL SEGMENT
14497336	ISSUE IN PRODUCT OFFER SEARCH PAGE - START OPTION DROPDOWN IS NOT CLEARED WHEN
14500281	COPY OF 13993329 -CCB-SBL: UNUSED DA IN SCRIPTS ADDED FOR CCB-SIEBEL INTEGRATION
14500519	MOD 11747 - RATE SCHEDULE ADD UI MAP HYPERLINK TO CLASSIC - V2 RATE ENGINE ONLY
14500602	COPY OF 14493293 - SAVING MR WITHOUT USE ON BILL
14500784	SERVER ERROR ENCOUNTERED ON LOAD OF MATCH TYPE PAGE
14504442	ISSUING CENTER MAINT UI MAP ERROR ON EDIT
14506526	CCB-SBL: CUSTOMER SYNCHRONIZATION:DOES NOT CONTAIN EXCEPTIONINFO IN CCBRESPONSE
14507105	CSS2 - SERVICE CHARGES SHOULD BE DISPLAYED AS SERVICE TYPE
14510243	11743 DIGITAL SIGNATURE FR ISSUES
14510546	CORRECT THE DATA TYPE METADATA OF DOC_ID FIELD FOR TABLE CI_BILL
14520257	COPY OF 14139622 - DISTRIBUTION OF PAYMENTS TO BILLS WITH DISPUTING ITEMS
14520261	COPY OF 14338644 - TRIGGERS IN SOURCE FOR OUBI
14520264	COPY OF 14483132 - DUPLICATE ERROR ON SERVICE ROUTE TRANSFER AS OPPOSED TO WARNI

Bug Fix	Description
14520271	COPY OF 14496979 - JAVA ENABLEMENT OF BASE COBOL COMMON ROUTINE CIPCOARN
14520276	COPY OF 14496988 - JAVA ENABLEMENT OF BASE COBOL COMMON ROUTINE CIPCGDCN
14521540	TD-SEVT JOB UPDATES SEVERANCE EVENT VERSION FIELD TO 0
14527533	COPY OF 14523440 - CREATED AND APPROVED ADJUSTMEN, CURRENCY SYMBOL DISPLAYS WRON
14527745	MOD 11747 - INVALID ERROR ON ENTER CALC RULE UI - INPUT SEQUENCE INVALID
14528111	11697-ERROR SCHEMA FIELD GEOVAL (SCHEMA/GEOVAL) HAS AN INVALID DEFAULT FUNCTION
14528519	POSTROUT JOB: SQL ERROR CODE 999999994 OCCURRED IN MODULE CIPBHSTG:XA200 FETCH
14531519	CSS2 - NULLPOINTER EXEPTION ON GETUSAGE - WXUSAGEOVERVIEW
14538138	COPY OF 14352927 - ADJUSTMENTS THAT ARE NOT SWEPT ON TO BILL ARE BEING CAPTURED
14538141	COPY OF 14356225 - BILL COMPLETION VALIDATION ERRORS SHOULD BE TRAPPED AS BILL E
14539451	10412 - SCHEDULED EXTRACT DATE OF THE PAY EVENT TENDER IS INCORRECT
14546822	MOD 11747 - ADJUSTMENT CALC LINE DETAILS NOT DISPLAYING PROPERLY
14547346	STATUS FIELD IS DISABLED WHEN LIFECYCLE ENCOUNTERS ERROR ON THE NEXT PAGE
14547747	REGENERATE CONVERSION PROGRAMS AFFECTED BY TABLE AND TEMPLATE UPDATES
14547975	CLICKING THE HYPERLINK OF ALERT CASE WITH THE SAME TYPE CAUSES ERROR 500
14550979	COPY OF 14550995 - BILL SEARCH CHAR WAS NOT POPULATED DURING BATCH C1-BNBAS
14552372	NPE WHEN RS IS EFFECTIVE AFTER SA START DATE
14553227	10412 FR - MOVE DEFAULT PAYMENT METHOD AND BAL REPLENISHMENT OPTION TO PPB TYPE
14554278	ERROR MESSAGE AND ALIGNMENT ISSUE ON PACKAGE ELIGIBILITY TAB
14557354	10751 - SALES AND MARKETING FOR DSM ENHANCEMENT
14558146	10412 - ERROR WHEN TRYING TO GENERATE BS FOR CANCELED PPB SA

Bug Fix	Description
14558734	10412 FR - INEFFICIENCY IN RETRIEVING LATEST BILL SEGMENT
14558935	ORA-00936: MISSING EXPRESSION ON BATCH CIPVSRRV
14559086	COPY OF 14558926 - CORRECT OPEN AND ASSIGNED HOURS OF TO DO EXTRACT FOR BI
14559541	FK VALIDATION ERROR ON CI_BSEG_CALC TABLE WHEN USING RATES V2
14575693	COPY OF BUG 14535058 - UNABLE TO ADD SA CREATION RULE. AN ERROR MESSAGE WILL DIS
14576298	11740 - ERROR DISPLAYED WHEN ADDING CALCULATION RULE
14579464	USING DOC_ID SEARCHING FOR A BILL FAILED DUE TO LACK OF INDEX
14584712	CSS2-ERROR IS ENCOUNTERED WHEN TRYING TO COMPARE RATES IN CSS
14585838	COPY OF BUG 14409431 - [INFO] PERSON IS NOT DISPLAYED IN PERSON TREE IN CONTROL
14589178	DELETE/DEPRECATE C1 ALGORITHMS PORTED TO FW
14589838	INSERTION PROGRAM ISSUES
14590009	MOD 11747 - BATCH BILLING CREATES A BILL SEGMENT WITH NO CALC HEADERS OR LINES
14590276	COPY OF 14526215 - BUG 13718206 CHANGED DEPOSIT CALCULATION FROM PREMISE BASED T
14590680	COPY OF BUG 14520407 - CHANGES TO CUSTOMER CLASS - OVERRIDE DUE DATE ALGORITHM R
14590694	PAYMENT FOR ACCOUNTS WITH DIFF. CUR ERROR IN NCIS PORTAL
14591885	CSS2-UNABLE TO RETRIEVE RATES USING "WXRATEANALYSIS" THRU XAI SUBMISSION
14593876	COPY OF 14222588 - ISSUE WITH DEPOSIT RECOMMENDATION USING TREND CALCULATION
14593882	COPY OF 14513536 - AFTER APPLY FW2.2.SP 15 CCB2.3.1 SP5,C1-ADMOV REPORTING ORA-0
14593889	COPY OF 14561831 - BATCH TD-HILO FAILS WITH MESSAGE MULTIPLE REGISTERS PRIORITY
14594987	MOD 11747 – HISTORIC QUANTITY JAVA NULL POINTER EXCEPTION
14599535	10412 FR - PREPAY BILLER TASK AND TASK TYPE UI LAYOUT CHANGES

Bug Fix	Description
14600647	10412 FR - CHANGE DESCRIPTION OF C1-SSTSK CHAR TYPE TO "SERVICE TASK"
14603240	10412 - DUPLICATE FUND REQUEST ADJ CREATED FOR PPB SA IN 1 PERIODIC MONITOR EXEC
14605587	COPY OF 14366834 - LOST CORRECTION READ NOTIFICATIONS IN CCB
14606410	MOD 11747 – HISTORIC QUANTITY CALCULATED INCORRECTLY
14606895	10412 FR - ADD PPB INFO TO THE TRANSFER DEBT AND PPB TASK MAINTENANCE UI MAPS
14606993	10412 FR - CREATE BATCH CONTROL TO MONITOR PENDING AND ACTIVE PPB
14607325	MOD 11747 – NO ERROR MESSAGE IF MEASURES PEAK QUANTITY VALUE SET TO "YES".
14607368	10412 FR - ADD PERSON INFO, EMAIL, AND SMS TO PPB TASK MAP
14607450	HIDE "ACTIONS" ZONE ON THE USAGE REQUEST PORTAL
14608175	CONFIGURING EDGE APPLICATIONS FOR CCB-NMS INTEGRATION(CCB2.4 CERTIFICATION)
14612032	10412 FR - REQUESTED FUND SHOULD BE A WHOLE NUMBER
14613112	10412 FR - XPATH ERROR WHEN TRYING TO TRANSFER DEBT TO PPB
14614184	CCB : INITIAL LOAD BATCH JOB C1-SYNIL NOT WORKING
14616469	COMPARE UTILITY NEEDS TO BE ENHANCED TO USE NEW PASSWORD ENCRYPTION ALGORITHM
14617471	CLOSING BILL SEGMENT END DATE FOR USAGE IS INCORRECT
14620617	11697- FA MO AUDITS ARE NOT TRIGGERED IN BATCH
14621403	10412 & 11739 – VARIABLE 'STATISTICAMOUNT' NOT IN SCOPE ON FREEZING BS
14625146	10412 FR - CHANGE TOOL TIP PPB ALERT TO "GO TO PREPAY BILLER"
14626050	UI XML WITH BAD DISPLAYS OF FIELDS
14629870	MOD 11747 – JAVA NULL POINTER EXCEPTION FOR MATH RULE
14638065	MOD 11747 – NO NODE NAMED "CONDITIONALFORMULALIST" FOR MATH RULE
14641771	WAM-CCB:CREATION OF FA FROM WAM THROWING INVALID DATE FORMAT ERROR

Bug Fix	Description
14645521	11739 - UNABLE TO COLLECT TARGET ELEMENT DATA FOR MOVE COMMAND
14646835	10412 FR - ADD DIFFERENT FIELDS FOR MAIN SECTION LABEL OF PPB AND NEM TASK TYPE
14647725	10412 FR - PPB ALERT ALGORITHM CHANGES
14652904	MOD 11747 – JAVA OUT OF MEMORY ERROR FOR MATH RULE
14664629	11349 - TRUNCATED QUOTE DESCRIPTION FOR ONLINE DISPLAY
14664754	11349 - BILL DETAILS OF GAS RELATED BILLS ARE TRUNCATED ON DISPLAY LAYOUT
14669120	COPY OF 14633127 - START/STOP - ADDRESS SOURCE WARNING MESSAGE IS DISPLAYED MULT
14669678	11697-RECON FA NOT CREATED WHEN CUT PROCESS IS CANCELED.
14675021	10412 FR - PPB NOT TRANSITIONED TO INACTIVE AFTER SA WAS CLOSED AN FINAL BILLED
14675218	CI_BILLPR BI PUBLISHER REPORT DOES NOT HAVE THE FIX FOR OLD BUGS 9694249/1021812
14676472	SYSTEM ERROR - WHEN TRYING TO DELETE ADJUSTMENT NOT LINKED TO BILL
14680973	10412 FR - BILL ID MISSING ERROR ENCOUNTERED WHEN TRYING TO REBILL A PPB BS
14684887	COPY OF 14552697 - APPLY TAXATION THRESHOLD PREBILLCOMPLETION ALGORITHM
14686340	MOD 11670 - NEW RATE CHECK RESULTS PAGE ISSUE
14686520	MOD 11747 – HISTORIC QUANTITY WAS NOT CALCULATED WHEN SEASON START /END POPULATE
14686731	MOD 11747 – MATH RULE SYNTAX VALIDATION FOR CONDITIONAL FORMULA IS INCORRECT
14696101	11739 - FR NEM UI CHANGES
14696334	11739 – SYSTEM ERROR UPON TRANSITIONING TUM TO TRUED-UP
14702326	CCB : INITIAL LOAD BATCH JOB C1-NMSIL NOT WORKING
14702978	MOD 11747 - MATH MAINT UI - WRONG ERROR MESSAGE FOR MISSING BILL FACTOR
14703879	JS ERROR ENCOUNTERED DURING LOADING OF ADD CIS PAYMENT UI MAP
14708185	MOD 11747 - BSEG WITH MIN CHARGE NOT WORKING SAME AS RV1

Bug Fix	Description
14708844	COPY OF BUG 14685589 - ISSUE WHEN FINAL BILLING ZERO BALANCE LOAN
14711177	11429 MAX BILL THRESHOLD - ALGORITHM USES THE BS PERIOD S/B CONSUMPTION PERIOD
14711636	DIFFERENCE QUERY - RECEIVE ERROR TOO MANY KEY FIELDS SPECIFIED FOR MAINT. OBJECT
14722437	STANDARD MONITOR PROCESS ERROR DEPRECATED
14722896	PAYMENT PORTAL/TEMPLATE DISPLAY ISSUES
14725916	COPY OF 10258686 - BILL PRINT EXTRACT NOT WRITING ENTIRE RECORD
14727092	10412 FR - ADD PPB FINANCIAL HISTORY ZONE THE THE SERVICE TASK PORTAL
14729738	11697 - EXPOSE SP SOURCE STATUS AND DISCON LOCATION WHEN ACTION IS ADD
14731450	SYNC REQUEST COUNT IN ALERT ZONE IS NOT THE SAME AS THE ACTUAL SYNC COUNT.
14733744	COPY OF 14646568 - REALTIME DATA SYNC BETWEEN CCB AND MDM
14734606	10412 FR - PPB TASK DISPLAY MAP'S GOTO SA AND GO TO BS CONTEXT MENUS NOT WORKING
14734681	PERSON NAME BASE IS DEFAULTED INCORRECTLY
14741113	MISUSE OF ORATYPE:FKREF
14741319	COPY OF 14262784 - SQ COLLECTION ISSUE WITH USAGE RESPONSE (MDM 14383949, CCB/MD
14745230	MOD 11670 - ISSUE REQUESTING NEW USAGE
14748550	11349 - SYSTEM ERROR AFTER RUNNING EMLROUT USING XML ALGO
14752192	10412 FR - ADD BILL COMPLETION ALGORITHM TO ADD PPB BILL MESSAGE
14752345	MOD 11747 - CALC LINE NOT CREATED WHEN MATH CALC RULE MISSING INT DA = SKIP
14755318	THE ENDPOINT URL PATTERN FOR C1ADJUSTMENTMAINTENANCE.WSDL
14764318	ISSUES FOUND IN SYNCING NMS CUSTOMER DATA
14764805	MOD 11747 - NO BILL SEGMENT CREATED FOR BILLABLE CHARGE SA
14770981	COMPARE UTILITY ERROR 1024 ON BATCH CI_COCNT
14773386	11739 - TUM TASK DISPLAY MAP'S GOTO ACCT AND GO TO SA CONTEXT MENUS NOT WORKING

Bug Fix	Description
14776603	CONFIGLAB - COMPARE UTILITY USING NEW PASSWORD ENCRYPTION ALGO FAILS IN WINDOWS
14780241	11697 FA SYNC AUTO TRANSITION LOGIC IS CAUSING CONCURRENCY ISSUES
14789691	MOD 11747 - FR ITEM 80
14794449	F1-TDCREATE ALG TYPE ADDITIONAL PARAMETERS CAUSING 2.3.1 ALG TO FAIL
14799085	DESCRIPTION UPDATES FROM FR
14800385	ERROR WHEN PRESSING "GET MORE" BUTTON ON SQ DETAILS/CALCULATION/AUDIT USAGE DETA
14804518	10412 FR - ADD PPB BILL SEGMENTS GRAPH
15868412	CCBV2.4 - NMS INTEGRATION CONFIGURATION EXAMPLES
15868422	CCBV2.4 - SIEBEL INTEGRATION CONFIGURATION EXAMPLES
15974294	CONFIGURING CCB 2.4 FOR CCB-MDM V2 INTEGRATION IN DEV (POINT TO NEW INT SERVER)
16020746	UPDATE UPGRADE SCRIPTS TO POPULATE SEARCH CHAR VALUE UP TO 50 CHARS ONLY
16963468	PERFORMANCE ENVIRONMENT STARTUP ISSUE FOR CCB 240 BENCHMARK

Appendix C

Application Framework Fixes

This section lists bugs fixed in Oracle Utilities Application Framework version 4.2.0, including:

- Bugs Fixed in Version 4.2.0 Service Pack 2
- Bugs Fixed in Version 4.2.0 Service Pack 1
- Bugs Fixed in Version 4.2.0.0

Bugs Fixed in Version 4.2.0 Service Pack 2

Bug Fix	Description
7173082	SYSWIDE FK REFERENCE VALITATION (F1-FKVBP) SHOULD NOT ISSUE AN ERROR FOR BLANK BOOLEANS
8276632	SYSWIDE MASKING ISSUE WHEN UPDATING MASKED DATA VIA A SERVICE SCRIPT
8981724	CONFIGTOOL INVOKING A NON-EXISTANT BPA RETURNS A BAD ERROR MESSAGE
9736141	CONFIGTOOL DESCRIPTION FOR ZONE TYPE PARAMETER ROWSTOEXPORT MISLEADING
10275294	BUNDLE FIREFOX: COPYING BUNDLE CONTENT INCLUDES "COLLAPSE NODE"
10424859	CONFIGTOOL SGG- DEFAULT CURRENT DATE/TIME INCORRECT AS IT IS BEING CACHED.
11658900	CONFIGTOOL TEST BUG FOR LONG PFD AUTOGENERATION
11839105	CONFIGTOOL TEST BUG FOR SHORT PFD AUTOGENERATION
12710567	CONFIGTOOL FIREFOX: CLICK ON STATUS WHICH IS IN LIFE CYCLE DISPLAY GETTING ERROR
12901432	BUNDLE FIREFOX: ALWAYS GIVING INVALID FILE TYPE ERROR, EVENTHOUGH IT IS VALID CSV FILE
13577435	ACCESS ADA-MDM: WORKLIST IS NOT PART OF TAB NAVIGATION
13577521	ACCESS ADA-MDM: USING ENTER ON THE EXP/COL, HELP, OR CONTEXT MENU IMAGES DOES NOT WORK

Bug Fix	Description
13650842	CONFIGTOOL IN RTL FW ENVIRONMENT, HISTORY MENU IS INCORRECTLY DISPLAYED IN IE BROWSER.
13650896	CONFIGTOOL RTL FW: TEST UI MAP LINK IS NOT AVAILABLE ON MAIN PAGE OF UI MAP IN IE BROWSER
13791802	HELP SPLHELP.HTML SEEMS TO HAVE WRONG LOGIC FOR NON-ENGLISH HELP
13882007	ACCESS ADA: JAWS: ISSUES WITH THE EXPLORER ZONE MENU
13900159	ACCESS ADA-MDM: SLOW RENDERING OF FILTER AREA IN MULTI QUERY ZONES
14074964	CONFIGTOOL UI MAP: IN FF THE ALLIGNMENT OF UI MAP TYPE IS WRONG
14078341	CONFIGTOOL IN FF REMOVE OPTION IS IN DISABLE STATE WHEN ADDING A NEW LOG IN TODO ENTRY PAGE
14246243	CONFIGTOOL SUPPORT OVERRIDE HTML
14325011	CONFIGTOOL COPY OF 14294119 - XHTML UI MAP WITH ORADOWNLOADDATA GETS XSLTRANSFORMER ERROR
14393030	DATABASE MISSING COPY BOOK INFO FOR THE FRAMEWORK OWNED FIELDS
14504020	BUNDLE BUNDLE IMPORT OF ALGORITHM RECEIVED MESSAGE 11002,12902 (ALG VERS REQUIRED)
14511001	MIGASSIST CMA OBJECT FAILING VALIDATION DOESN'T HAVE STATUS APPLIEDERROR
14554243	PORTAL COPY OF 14394716 - GAP IN THE DASHBOARD WHEN HIDING A CONTEXT SENSITIVE ZONE
14599104	SYSWIDE DYNAMIC ANALYSIS : ERROR 500 INTERNAL SERVER ERROR
14641015	TODO COPY OF BUG 14489674 - ADDING CUSTOM ROLE TO OOB TODO IS NOT WORKING
14727652	PORTAL NAVIGATION ISSUES WITH PORTAL ZONES
14740613	SYSWIDE CACHE_FLG NEEDS BE UPDATED FOR FW SYSTEM OWNED TABLES.
14757887	CONFIGTOOL RETURN NUMBER OF UPLOADED DATA FROM CSV
14772887	GEN ENTER KEY NOT WORKING ON MULQRY ZONE RECORD LINKS DISPLAYED NEXT TO CONTEXT MENU
14830103	GEN ADD MORE DESCRIPTION TO OVERRIDE DATE CHARACTERISTIC TYPE
15834880	SYSWIDE SHIFT CALENDAR DOES NOT RENDER DUE TO USER AND LOGIN NAME NOT MATCHING
15835819	TRANSLT MDM PSEUDO TRANSLATION ISSUES

Bug Fix	Description
15932706	ACCESS ADA-ODM: COLOR CONTRAST ISSUE IN UI MAP
15967069	SYSWIDE NEED ABILITY TO HIDE SOME SQL ERRORS FROM THE LOGS
15972133	COMMON COPY OF 16398679 SAVE POINT DISPATCHER SERVICE DOES NOT TRAP ALL ERRORS
15992897	CONFIGTOOL ETM: SUPPRESS SYNTAX FOR ENTERING A VALUE ON ADD BUT NOT ON EDIT
15993276	CONFIGTOOL GUI SE: DRAG AND DROP IS NOT FULLY FUNCTIONAL YET, CANNOT MOVE
16019726	CONFIGTOOL COPY BUG 16495223 GUI SE: TREE RENDERING SHOULD SUPPORT COMMENTED OUT
16020110	COMMON MDM: ERR MESSAGE "VALUE TO TOO LONG FOR A FIELD" COUNTS CHARS INSTEAD OF BYTES
16047750	CONFIGTOOL ER 00436 - BO OPTION FOR MAINTENANCE BPA SCRIPT
16065847	PORTAL COPY OF 16046658 - IN PRINTED ZONE TITLE DISPLAYS ZONE MENU AND HELP TEXT WITH Z
16088667	SYSWIDE CHROME: UNABLE TO ADD HIJRI DATES MAPPING IN CHROME BROWSER
16091279	SECURITY ER 00434 - ETM: ENHANCE MASKING CAPABILITY FOR SCHEMA BASED OBJECTS
16092274	ACCESS COPY OF 14222314 ADA: MENUS AND SUBMENUS ARE NOT ACCESSIBLE USING JAWS
16162474	WORKFLOW NO DEFAULTING ON WORKFLOW PROC TEMPLATE DEPENDENT EVENTS DESCRIPTION
16178243	DATABASE IN MO F1-STASKTYPE, TABLES HAVE WRONG CLASSIFICATION
16190631	SYSWIDE 00428 DATA EXPLORER PAGINATION SUPPORT
16191584	SYSWIDE COPY OF BUG 14791127 - CANNOT PURGE RECORDS-CHILD ROWS HAVE REFS TO PARENT
16191724	BATCH COPY OF BUG 15938107 - TRANSITION ERROR ALGORITHM ERROR HANDLING
16191834	UN COPY OF BUG 15882339: SUPPORT COBOL ROW STARTTOADD (SADD) IN JAVA CHANGEHANDLERS
16213996	TRANSLT MDM:INCORRECT WORD ORDER FOR JAPANESE RUNTIME CONCATENATION - COLLAPSE ... ZONE
16219040	SYSWIDE ETM:360 SEARCH QUERIES ON CI_ZONE_PRM NOT USING BIND VARIABLES & TRIM() DISABLES
16238502	CONFIGTOOL IF MULTIPLE ORADISPLAYNONE SPECIFIED IN ORALOAD, ONLY LAST ONE IS EXECUTED

Bug Fix	Description
16246003	SYSWIDE GUI SE: HIDE MO FILTER WHEN USER IS EDITING BO SCHEMA
16274027	GEN MDM: DEC=6 MNEMONIC OF ZONE IS NOT FORMATTING DECIMAL VALUES PROPERLY
16275797	SYSWIDE FIREFOX 17 ESR : CERTIFICATION ISSUES ON 4.2.0.1.0
16279612	ENVIRON 00228 INCORRECT ENTRIES FOUND IN CHANGES FOR EAR INDEPENDENCE
16285904	SECURITY ER 00435 - SUPPORT ENCRYPTED FIELDS AS FILTER ON QUERY DATA EXPLORER
16289428	SYSWIDE DYNAMIC CURRENCY SUPPORT IN ZONE FETCHES WRONG VALUES WHEN WE EMPTY VALUES
16293476	SYSWIDE GUI SE: CODE CLEAN UP
16295186	SYSWIDE GUI SE: INCLUDESS SEARCH CAN BE RESTRICTED TO SERVICE SCRIPT ONLY
16295792	CONFIGTOOL JS ERROR WHILE CLICKING CUSTOM SEARCH ICON TWICE
16296571	PORTAL ETM: HYPERLINK USING FK REF NAVIGATES TO BLANK PAGE
16303417	SYSWIDE GUI SE: IMPROVE MAP FIELD SEARCH FILTERS
16313792	SYSWIDE GUI SE: UIHINT PROPERTIES FKREF CONTROL CAN BE CONDITONALLY HIDDEN/DISABLED
16324590	HELP ATTACHMENT SEARCH PORTAL NEEDS NAVIGATION KEY FOR CONTEXTUAL ONLINE HELP
16327744	SYSWIDE GUI SE:REMOVING UI HINT NAMESPACE SHOULD SHOW ERROR MESSAGE IN DESIGN VIEW
16340610	SYS EAR STILL NOT FULY INDEPENDENT
16343425	COMMON VARIOUS COSMETIC ISSUES WITH ATTACHMENTS
16343980	THIRDPTY COPY OF 16343977 - ER FOR MDB TO HANDLE POISON MESSAGES FOR WEBSPHERE MQ.
16344893	BATCH COPY OF 16263038 - SSE BATCH RUNNING FOR LONG PERIOD OF TIME WITHOUT ANY TERMINA
16356307	SYSWIDE COPY OF 16356298 - COPY OF 15922990 - MWM SHIFT CALENDAR DOES NOT RENDER DUE TO
16359969	UIMAP GENERATED MAPS ARE NOT BEING CACHED IMPACT GUI SE
16400205	SYSWIDE 0405 - EMAIL SERVICE AND ATTACHMENTS - COSMETIC ISSUES
16428053	SYSWIDE POP-UP PAGES NO LONGER APPEARING ON CENTER OF PAGE BUT ON UPPER LEFT OF SCREEN

Bug Fix	Description
16444128	SYSWIDE GUI SE: CHROME ISSUES
16446898	DATABASE FOREIGN KEY VALIDATION ERRORS IN QA DUE TO FW DATA
16448294	UN COPY OF 16448289 COMMENTS IS NOT SAVE IN ADDING CUSTOMER CONTACT - IN QUICK ADD
16448330	TODO COPY OF 14797345 RELOCATION SAVEPOINT IN F1-TDCREATE
16472842	DATAEXPLOR 00384 PORTAL PERSONALIZATION - ISSUES
16474506	GEO COPY OF 16283266 - ERROR WHEN PERFORMING MULTISEARCH GEOCODING REQUEST
16479302	COMMON COPY OF 16190087 - UNABLE TO SUCCESSFULLY ENABLE REVISION CONTROL FOR SOME OF TH
16479984	BATCH COPY BUG 16374017 - LOS ALWAYS SET TO ERROR WHEN THE TIMED JOBS ARE RUNNING SUCC
16481786	CONFIGTOOL FW: Z1 AND ZZ COMPONENTS IN DEVELOPMENT ENVIRONMENT
16484210	SYSWIDE COPY OF 16437301 - GUI SE: APPENDING GARBAGE CHARACTERS IN 'APPLICATION SECURITY
16484224	SYSWIDE COPY OF 16385299 - GUI SE: ADD SUPPORT FOR NEW UIHINT:ALPHAFORMAT ATTRIBUTE
16484232	SYSWIDE COPY OF 16425774 - GUI SE: ADD "STRING" OPTION TO THE DATATYPE ATTRIBUTE
16488499	CONFIGTOOL COPY OF BUG 16480050 - CCB: HYPERLINK OF FIELDS ARE NOT GENERATED ON THE DISPLAY
16494258	CONFIGTOOL COPY OF 16316995 UIHINT INCLUDEDA IN MAINTENANCE MAP FRAGMENT SCHEMA NOT COLLLEC
16498241	SYSWIDE COPY OF 16489896 - WHEN MANUALLY ALLOCATING THE FA THE CREW SHIFT QUERY ZONE
16500536	BATCH COPY BUG 16497621 - THREADPOOLWORKER FAILS IN WINDOWS ENVIRONMENT
16501703	BATCH COPY OF 14807234 - ERROR IN CIPZSVPN WHEN CREATING A LIST OF SAVEPOINTS
16505281	MIGASSIST COPY OF 16449617 - MIGRATION PLAN/REQUEST PAGES THROWING JAVA SCRIPT ERROR
16510447	BO GUI SE: IMPROVE FIELD SEARCH BY MAINTENANCE OBJECT
16511162	COMMON ALGORITHM VERION SHOULD DISPLAY OWNER
16512194	COMMON COPY OF BUG 16759653 - UNABLE TO ENTER A NEW SET OF ALGORITHM PARAMETERS ON ANY
16523814	MIGASSIST COPY OF 16490438 - NUMBER FORMAT EXCEPTION WHEN RUNNING F1-MGDPR - IMPORT

Bug Fix	Description
16523970	MIGASSIST COPY OF 16504198 - UNSUPPORTED OPERATION (TIMESTAMP) WHEN RUNNING F1-MGDPR - EXP
16524561	UN CCB ACCOUNT-BUDGET IS BROKEN AFTER APPLYING BUG 16193071
16525303	CONFIGTOOL COPY OF BUG 16472132 - MAINTENANCE MAPS HAVE TWO TITLES
16529274	REVCTRL 00419 SMART REVISION CONTROL
16532153	CONFIGTOOL GUI SE: MAPLIST IS NOT PROTECTED ON DISPLAYMAP
16533437	GEN COPY OF BUG 14797345 - ODM: RELOCATE SAVEPOINT IN F1-TDCREATE
16537110	CONFIGTOOL NAVIGATION ON ATTACHMENT CREATION
16538167	SYSWIDE COPY BUG 16210577 - LDAP IMPORT ERROR REPORTING AND HANDLING TO 4.2.0
16546972	BATCH SEPARATE SINGLE-SERVER CLUSTERS FOR TESTING
16554890	BATCH RUN/THREADABORTEXCEPTION NOT LOGGED CORRECTLY IN BRT
16565429	CONFIGTOOL COPY OF BUG 15877611: ROWFILTER ON FLATTENED LIST IS ALWAYS RENDERED WHEN USING
16578088	MIGASSIST COPY OF 16552932 - ENTITY ID FIELD SEQUENCE DOES NOT MATCH PK OR TABLE METADATA
16584650	COMMON COPY OF BUG 14594616 - ADD FILE SIZE TO ATTACHMENTS
16584655	COMMON COPY OF BUG 16579180 - ATTACHMENT ISSUES WHEN FW OWNED ATTACHMENTS ARE EXTENDED
16587299	SYSWIDE COPY OF 16520616 - GUI SE: MULTIPLE SCENARIOS FAILING IN SE
16590846	MIGASSIST COPY OF 16586472 - CMA:SQLINTEGRITYCONSTRAINTVIOLATIONEXCEPTION IS COMING AT THE
16594546	CONFIGTOOL GUI SE: NO SUPPORT FOR ATTRIBUTE UIHINT:CAPITALIZE ON SCHEMA EDITOR
16599744	CONFIGTOOL COPY OF 14644644 - INCREASE NUMBER OF USER FILTERS, HIDDEN FILTERS & SQL COLUMNS
16616713	BATCH COPY OF 16616715 - ORA-00001UNIQUE CONSTRAINT F1_TSPACE_ENTRY AT THREAD STARTUP
16617709	RELEASE COPY OF 16545152 - ISSUES WITH CO.SH
16624983	MIGASSIST EXPORT OF CYRILLIC-NAMED BUSINESS SERVICE CAUSES NULL POINTER ERROR

Bug Fix	Description
16625647	CONFIGTOOL COPY OF 16396059 - UIHINTS - AVOID PROLIFERATION OF MAINTENACE/DISPLAY SCRIPTS W
16625761	MIGASSIST COPY OF 15880329 - ADD FW MIGRATION PLANS - DROP 1
16636568	MIGASSIST COPY OF 16635023 - NULL POINTER ERROR ON IMPORT/ APPLY OF A PLUG-IN SCRIPT
16655659	CONFIGTOOL COPY OF 16212989 : UIHINT: NO AVAILABLE METHOD TO CAPITALIZE
16657578	BATCH COPY OF 16530304 - BATCH TO DO CREATION CREATES DUPLICATE TO DOS AND DOES NOT CL
16659074	RELEASE COPY OF 16215864 - ORS FUNCTIONALITY IS BROKEN BECAUSE OF THREADPOOLWORKER CHANG
16659413	SYSWIDE COPY OF 17458173 MO AUDIT LOGIC CAUSED SYNCS TO BE CREATED IN AN INCORRECT ORDER
16670605	CONFIGTOOL COPY OF BUG 16482296 - ORATYPE DELETEGRIDROW NOT INVOKING ONCLICK JAVASCRIPT ON
16670742	SYSWIDE COPY OF 16580225 - {INFO} HIBERNATECACHEHELPER.FLUSHANDCLEAR(); NOT WORKING ANYM
16672151	GEN EXPOSE ADDRESS ELEMENTS IN ADDRESS GEOCODING PLUG-IN SPOT AND SERVICE
16675541	XAIXAI XAI INBOUND SERVICE WSDL EXPOSES JAVA VALUES FOR LOOKUP BUT DOES NOT ACCEPT ONE
16677648	SYS COPY OF BUG 16431404 - CREATE A BO ALGORITHM ZONE DOES NOT CHECK USER ACCESS T
16681493	MIGASSIST COPY OF 16672791 - CMA CANNOT APPLY BPA SCRIPT
16691278	COMMON COPY OF BUG 16677131 - FILE SIZE IS NOT SHOWN IF THE FILE SIZE IS IN BYTES
16694764	RELEASE COPY BUG FOR 16592440 - XAI SUBMISSION ISSUE ON WINDOWS FOR FW 420 SP1
16699794	CONFIGTOOL COPY OF BUG 16547650 - ZONE DOES NOT RENDER PROPERLY FOR SOURCE=SPECIFIED
16706380	COMMON BO SEARCH ON COMMON ATTACHMENTS DOES NOT RETURN CHILD BO'S
16708886	XAIXAI COPY OF 14523613 - XAI: TIME ZONE CONVERSION PROBLEM
16718517	BATCH COPY BUG 16717970 - INCORRECT IMPLEMENTATION OF BATCH LEVEL OF SERVICE PLUG-IN
16719473	CONFIGTOOL COPY OF BUG 16659790 - ALLOW ABILITY TO RENDER PRE-SCRIPT SCHEMA WHEN EDITING A

Bug Fix	Description
16730011	GEN COPY OF BUG 14698961-ETM: ONCHANGE NOT BEING TRIGGERED FROM AN INPUT TEXT
16732498	GEN GUI SE: POPULATE IS="%EFFECTIVEDATE INSTEAD OF IS="%EFFECTIVEDATE() WHEN NO VALU
16734038	RELEASE COPY OF 16568048 - SPL.PROPERTIES CHANGES TO SUPPORT BATCH VIEW FROM SERVER
16742045	CONFIGTOOL COPY OF 16694153 - INFO / QUERY ZONES DO NOT AUTO REFRESH
16743579	CONFIGTOOL COPY OF 16303599 - ERROR 404--NOT FOUND IS THROWN WHEN WE CLICK ON THE HELP
16744001	GEN MWM: ERR DISPLAYED WHEN CLICK ON ?CSV FILE TO UPLOAD? BUTTON TWICE
16744855	BATCH COPY OF 16449924 - TO DOS LINKED TO A BATCH RUN SHOWS THE LATEST BATCH RUN NUMBE
16753871	COMMON COPY OF 14674545 - ETM: ADD OPA REQUEST AND RESPONSE TO LOG FILE
16762676	MIGASSIST COPY OF 16689329 - CMA PERFORMANCE IMPROVEMENTS
16767735	TODO COPY OF BUG 16664523 - DEFAULT CHARACTERISTIC VALUE IS NOT SET WHILE ADDING THE
16771270	RELEASE SERVICE PACK INSTALLATION ALERTS WHEN HOT FIX COPIES ARE NOT PRESENT IN THE SP
16772019	TODO COPY OF BUG 16679656 - SRCH_CHAR_VAL NOT POPULATED ON CI_TD_TYPE_CHAR ABLE
16772958	CONFIGTOOL ODM: UIHINTS : CSV FILE UPLOAD NOT WORKING FOR BO'S WITH UI HINTS
16774281	XAIXAI 234 - INBOUND WEB SERVICE UI AND DEPLOYMENT
16776394	CONFIGTOOL COPY OF BUG 16743893 - ISSUE IN UIHINTS GENERATED DISPLAY/MAINTENANCE PAGE AFTER
16780112	CONFIGTOOL COPY OF 16679063 - GUI SE: INVALID MAXLENGTH IN FLATTENING INFORMATION FIELDS
16780601	SYSWIDE COPY BUG 16670760 - GUI SE: SCHEMA TAB NOT GETTING REFRESHED WHEN OPENING ANOTH
16792355	SYSWIDE COPY OF 16792321 - PREVIOUS SCREEN TITLE CONTINUES TO DISPLAY ABOVE THE NEWLY DI
16792659	MIGASSIST ERROR MESSAGE LIST THE KEYS IN IN-CORRECT ORDER.
16805473	SYSWIDE COPY OF 16671538 - GUI SE: ALLOW DUPLICATE ELEMENT IN SCHEMA DESIGNER FOR TYPE C
16806926	SYSWIDE COPY OF BUG 16806914 - COPY OF BUG 16745968 - ETM:SRCH_CHAR_VAL POPULATED WITH S

Bug Fix	Description
16810210	CONFIGTOOL COPY OF BUG 16418659 - UIHINTS - SUPPORT UIHINTS FOR STATE TRANSITION MAPS
16810642	MIGASSIST COPY OF 16802088 - NULL POINTER ERROR ON IMPORT/ APPLY
16811214	SYSWIDE DYNAMIC CURRENCY IS NOT WORKING WHEN WE USE CUR=COLUMN NAME OR 'CURRENCY'
16811499	SYSWIDE COPY OF 16675844 - GUI SE: CONDITIONALLY HIDE ELEMENTS ISSUES
16812311	TRANSLT TRANSLATION: BUG TO TRACK THE CODE CHANGES REQUIRED FOR BUG 13334177
16816491	RELEASE COPY OF 16816282 - IN FW_JARS_STRUCTURE.XML THE BASESUPPORT FOLDER SHOULD BE CAM
16816617	CONFIGTOOL COPY OF 17171626 ON ADD DEFAULT VALUE ON THE SCHEMA IS NOT DISPLAYED ON THE UI
16819629	GEN COPY OF BUG 16758539 - BS F1-SMSSEND FAILS IF MESSAGE HAS "<" TRAILING CHARACTER
16821296	UIMAP THE FILTERS ON THE ATTACHMENT QUERY PORTAL ARE CENTERED
16821515	XAIXAI COPY OF 16622223 - PURGE CI_XAI_DWN AND RELATED TABLES
16822481	PORTAL COPY OF 16736533 - BI BUCKET CONFIGURATION RELATED CHANGES FOR MO AND PORTAL - S
16822988	BATCH COPY OF 16806989 - GET CLUSTER INFORMATION BS NOT WORKING IN QA ENVIRONMENT
16823619	BO COPY BUG 16480191 - MODIFY FLATTENED EFFECTIVE DATED ELEMENTS MAINTENANCE
16828901	SYSWIDE ETM: USE LAZY INITIALIZATION TO FETCH ZONE METADATA AND CACHE FOR FIELD HELP
16834157	PORTAL COPY OF 16736533 - BI BUCKET CONFIGURATION RELATED CHANGES FOR MO AND PORTAL - S
16837418	BUNDLE PHYSICAL AND BUNDLING BOS SHOULD NOT BE INSTANTIABLE.
16839543	TODO COPY OF BUG 16622418 - PERF ISSUE ON HOME PAGE FOR ALL USERS CAU
16842190	BATCH COPY OF 16787374 - PROCESS ID IN THE DETAILS GROUP IS 0 WHEREAS IN THE MEMBERS L
16858186	CONFIGTOOL GUI SE: NOT SAVING FLATTENED FIELD CORRECTLY WHEN CHILD TABLE/LIST IS MISSING
16862244	BATCH REMOVE BATCH CONTROLS USED FOR TESTING
16867759	DATABASE COPY OF BUG 17335666 - MDMV2 D1-SMMTR IS SLOW AND LOG FILES USE ALL DISK SPACE

Bug Fix	Description
16874369	MIGASSIST COPY OF 16864647 - RUNTIME ERROR SUCH AS "SQL TOO LARGE" CAUSES CMA TO FAIL
16879555	MIGASSIST COPY OF 16874883 - APPLYING IMPORT OF SCRIPT INVOKING A FUNCTION FAILS WITH HIBE
16880375	SYSWIDE COPY OF 17344235 ALLOW 0 FOR REQUIRED NUMERIC NON-SERVICE-BASED FIELDS
16881510	MIGASSIST COPY OF 16850247 - IMPORT/APPLY GIVES SQL ERROR "QUOTED STRING NOT PROPERLY TERM
16885846	TRANSLT CCB_24_FR:2237:UI MAP - SCHEMA TAB TITLE LAYOUT
16886338	MIGASSIST IMPORT ZONES SHOW BO ERROR ABOUT MISSING SCHEMA - NO ROWS DISPLAYED
16886698	DEVTOOLS ARTIFACT GENERATOR GENERATES CODE USING DEPRECATED METHODS
16887380	MIGASSIST COPY OF 16850309 - IMPORT/APPLY THROWS ILLEGALARGUMENTEXCEPTION: ILLEGAL GROUP R
16888958	CONFIGTOOL COPY OF 16838338 - GUI SE: NOT ALLOWING ENOUGH SPACE IN VALUE REFERENCE FIELD
16889192	DATABASE COPY OF BUG 16889187 - COPY OF BUG 14844844 - FIELD SC_USER_CHAR.SRCH_
16905016	COMMON COPY OF 16871726: RAISE A NUMBER TO A DECIMAL POWER NOT WORKING AS EXPECTED
16911910	SECURITY COPY OF BUG 16904379 - CLOB FIELD IS NOT UPDATED WHEN ANY ELEMENT PRESENT IN THA
16914323	BATCH USE CORRECT COHERENCE-CACHE-CONFIG.XML IN ONLINE BATCH
16914425	BATCH COPY OF 16914402 - BATCH: NEW COMMAND LINE OPTION FOR JVM NAME
16918451	CONFIGTOOL COPY OF 16858291 - GUI SE: NOT DISPLAYING FLATTENED FIELD FUNCTIONS CORRECTLY ON
16919520	CONFIGTOOL COPY OF BUG 12617593 - ORASEARCHFIELD DOES NOT SEEM TO WORK WITH LITERALS
16923195	SYSWIDE GUI SE: LOOKUP HYPERLINK IN SCHEMA EDITOR DOES NOT NAVIGATE
16923342	TODO COPY OF BUG 16919009 - ISSUES IN PURGING COMPLETED TO DO ENTRIES USING 'F1-TDPG'
16928602	COMMON COPY OF 16836085 - DASHBOARD REMAINS POPULATED AFTER GOING TO CONTROL CENTRAL
16931190	COMMON COPY OF BUG 16917344 - WRONG ERROR MESSAGE WHEN ATTACHMENT VALIDATION IS FAILED
16934120	BATCH COPY OF 16164935 - EXCESSIVE DELAYS TO GENERATE A NEW BATCH RUN TREE

Bug Fix	Description
16936687	SYSWIDE COPY OF BUG 16923725 - IF A DISPLAY PROFILE IS YYYY-MM-DD, THE DATEPICKER WILL N
16942463	SYSWIDE CUSTOM ERROR PAGE FOR HTTP SERVER ERRORS
16946713	BATCH 00429 BATCH STABILITY
16950238	CONFIGTOOL HTML GENERATE ADDS LIST NAME TO THE XPATH FOR ELEMENTS WITH SEARCH ATTRIBUTES
16954046	CONFIGTOOL GUI SE: FLATTENED FIELD ROWS TO BE CREATED IF ATLEAST ONE FIELD VALUE IS ENTERED
16955376	BATCH COPY BUG 16787349 - INCORRECT IMPLEMENTATION OF BATCH LEVEL OF SERVICE DESC
16957497	CONFIGTOOL COPY OF BUG 16704821 - UNABLE TO RETRIEVE GLOBAL CONTEXT VARIABLE TO SET CHARAC
16959348	TODO COPY OF BUG 16951883 - TO DO : "SUBJECT" ELEMENT MISSING IN THE BUSINESS SERVICE
16974342	TODO COPY OF BUG 16974331 - COPY OF BUG 16815002 - TO DO SEARCH NEEDS TO BE A FAVORIT
16974508	DEVTOOLS API CHANGE MONITOR IS FAILING FOR GEN CHANGES
16985938	ENVIRON COPY OF 16762892 - LDAP CONFIGURATION TO CC&B 2.4 IS NOT WORKING
16986824	CONFIGTOOL COPY OF BUG 16950639 - UIHINT:SELECT BS NOT ALWAYS POPULATING DROPDOWNS
16986846	RELEASE COPY OF BUG 16727925 - UNABLE TO GET GEOCODE DATASOURCE CONNECTION IN BATCH
16989102	SYSWIDE COPY OF 14192814:MOVE TRANSLATABLE LOGIN PAGE TEXT TO MESSAGE METADATA
16989136	TRANSLT COPY OF BUG 16989121 - COPY OF 16768046: CCB_24_PL:2237:RIGHT ALT + C TRIGGER FU
16994281	XAIXAI WEBSERVICE ADAPTER SEARCH, LOG PAGE IS NOT GETTING RENDERED
16996294	SECURITY COPY OF 16461061 - VALUE TOO LONG ERROR POPUP WINDOW THROWN IN THE APPLICATION S
16997374	BATCH COPY OF 16956950 - BATCH JOB MO IS NOT AVAILABLE FOR BO MAINTENANCE
16999420	UIMAP COPY OF BUG 16999381 - COPY OF BUG 16999320 - COPY OF BUG 16999295 - COP
17010978	SECURITY ENHANCE UNMASKING FUNCTIONALITY FOR SCHEMA BASED FIELDS
17011266	XAIXAI COPY OF 16935190 - UNABLE TO CONVERT ELEMENT VALUE FROM XSD:DATETIME TO INTERNAL

Bug Fix	Description
17012500	RELEASE ENHANCED CLIENT CERT SUPPORT (ER 417)
17013221	BATCH COPY OF 16931039 ADD EXISTENCE-CHECK-SAVEPOINT OPTION FOR COBOL
17014351	COMMON COPY OF BUG 16844187 - ETM: ERROR IN UI GENERATION FOR MOS NOT USING F1-MAINPROC
17015187	WORKFLOW COPY OF 16959160 - SERVICE CILWDWNP NO LONGER POPULATING CTXT_TYP_DESCR
17016856	CONFIGTOOL FOREIGN KEY REFERENCE SYSTEM ERROR
17040509	UN COPY OF BUG 16562242 - CASETRAN BATCH JOB IS NOT RELEASING SAVEPOINTS
17049195	CONFIGTOOL UI DEPENDENTS WITHIN A GRID DOESNT WORK AS EXPECTED
17051441	MIGASSIST MIG REQUEST SELECT SPECIFIED KEYS SHOULD VALIDATE EXISTENCE
17053205	SECURITY COPY OF BUG 17053201 - COPY OF BUG 16630145 - LOGOUT IS NOT WORKING WHEN ACCESS
17054142	SYSWIDE TIPS DOCUMENT ISSUES
17060351	SYSWIDE FIREFOX 17 ESR : CERTIFICATION ISSUES - EXTRA BLANK SPACES
17061107	BATCH COPY OF 17049686 - MWM: LOS REASON MESSAGE SHOULD BE OPTIONAL IN BATCHLEVELOFSER
17064682	PORTAL PORTALINFOREPOSITORY CACHE IS ALWAYS USING NEW SESSION TO RETRIEVE ZONE METADATA
17070782	REVCTRL 00419 EMAIL NOTIFICATION IS NOT SENT ON FORCE CHECKIN IN SMART REVISION CONTROL
17076214	UN COPY OF BUG 17076211 - COPY OF BUG 17012812 - DASHBOARD POPULATED AFTER GOING TO
17076802	TRANSLT JAPANESE LANGUAGE IS NOT DISPLAYED IN THE LOGIN PAGE
17078825	CONFIGTOOL DUPLICATE STRINGS DISPLAYED IN MESSAGE FOR PORTALS COUNT
17160606	BATCH COPY OF 17160530 - SUBMITJOB DOES NOT ALLOW SPACE IN BATCH SOFT PARAMETERS.
17161494	PORTAL COPY OF BUG 17029115 - [CCB 231] - < CHARACTER EMBEDDED WITH SPACES WHEN USED
17166515	PORTAL 00445 CONFIGURE PIE CHART COLORS
17168122	DATAEXPLOR 00428 PAGINATION - ERR ON CLICK OF NEXT BUTTON ON F1-DE & F1-DE-QUERY ZONES.
17178065	CONFIGTOOL REQUEST TO UPDATE TIPS WITH THE NEW ENHANCEMENTS FOR SCHEMA AND MAPS

Bug Fix	Description
17179593	COMMON CORRECTION TO F1-BOSTATUS SCRIPT, SEARCH_LBL FIELD, F1-EDITACTIONS MAP
17195196	DATAEXPLOR COPY OF BUG 16689562 - OM2681;LOWCASE MGT_FILTER OPTION VALUE DISPLAYED IN ZONES
17203085	SYSWIDE COPY OF 17027605 - BACKPORT OF BUG 14270378 - ERROR MESSAGE NOT BEING CLEARED FR
17212326	SYSWIDE GUI SE:JS ERROR WHILE SELECTING A RECORD FROM DATA EXPLORER SEARCH ZONE
17215603	COMMON COPY BUG 16675764 GUI SE: EXTENDED DA EDITING SHOULD NOT ALLOW FOR ITS CHILD DA
17231337	CONFIGTOOL CACHING ISSUE WITH BUSINESS OBJECT RENDERED UI MAP
17242605	XAIXAI COPY OF 17232848 - XAI-XML FILE RECEIVER. GENERIC ERROR "XAI TOOL ERROR OCCURRED
17244399	BATCH COPY OF 17221519 - NULLPOINTEREXCEPTION IN F1-LDAP AFTER APPLYING PATCH 17165578
17247476	UIMAP NULL POINTER EXCEPTION IS COMING WHEN CLICK SCHEMA TAB IN UI
17252913	TODO TODO: "TYPE OF CHAR VALUE" ADDITIONAL COLUMN DISPLAYED IN CHROME
17257234	SYSWIDE COPY OF 16476077 - ETM: APPEAL VALIDATION WEB SERVICE ERROR ON OPA 10.4
17278840	UIMAP COPY OF BUG 16908713 - MDM: ISSUE WITH F1-RECORDACTIONSFUSION XHTML FRAGMENT
17278852	SYSWIDE COPY OF BUG 17278843 - COPY OF BUG 17244868 - HIBERNATE NOT RELEASING CONNECTION
17281733	DATAEXPLOR PAGINATION - PREV/NEXT BUTTONS ENABLED BY DEFAULT ON ZONE LOAD FOR F1-DE-QUERY
17294158	SYS COPY BUG 17290592 - SYNC ALGO F1-WAITRELSR NOT FINDING RELATED SYNC WITH SAME CR
17296911	TRANSLT COPY OF 17296906:RIGHT ALT + C TRIGGER FUNCTIONAL ACTION AFTER PATCH 16989136
17297239	SYSWIDE COPY OF BUG 16653838 - FEATURE CONFIGURATION PAGE REFRESH IS SLOW
17302132	TODO COPY OF BUG 17082999 - CM PORTAL LEADING TD ENTRY PAGE CANNOT BRING UP DEFAULT T
17308880	GEN COPY OF BUG 17273482 - AFTER CLICKING GET MORE, CONCURRENCY ERROR ENCOUNTERED FO
17314476	CONFIGTOOL COPY BUG 17179383 - MULTIPLE FLATTENED LISTS FROM SAME TABLE DO NOT WORK

Bug Fix	Description
17317416	COMMON ALGORITHM SEARCH BY ENTITY SHOULD SHOW DATA AFTER LAUNCHING
17318749	DATAEXPLOR COPY BUG 17285833 - HIDE CUSTOM SEARCH SELECTION ICON
17319827	CONFIGTOOL COPY 16956686-UI HINTS: FK INFO IS NOT CLEARED IF FK INPUT IS DEPENDENT ELEMENT
17321658	COMMON HELP LINKS NOT NAVIGATING TO CORRECT PAGES (NAV KEY ISSUES)
17325487	DATAEXPLOR 00384 PORTAL PERSONALIZATION: DUPLICATE KEY ERROR
17327811	COMMON COPY OF BUG 17022658 - EXTENDABLE LOOK UP BUTTON ISSUE
17329139	CONFIGTOOL COPY OF BUG 17061689 - ORAINVOKESS IN UI MAP FRAGMENT BREAKS DROPDOWN ELEMENT RE
17336559	SECURITY COPY OF 16926970 - ACTIVE DIRECTORY INTEGRATION WHEN CISUSER ROLE IS NOT USED
17336881	SYS COPY OF 17294111 - UNIXDOMAINSOCKET MASKS SOCKET ERROR NUMBER
17342459	MIGASSIST COPY OF 17342450 - COPY OF 17338595 - BUG 17211890 - MIGRATION DATA SET IMPORT -
17351419	SYSWIDE COPY OF BUG 17214853 - F1-FLUSH DOES NOT CLEAN UP TPW
17355943	CONFIGTOOL CANNOT BUNDLE AN EXPORT BUNDLE - ERROR IS "MISSING EXTERNAL REFERENCE ID"
17358494	CONFIGTOOL COPY OF 17254746 - SPACES NOT BEING REMOVED FROM SPECIFIED ELEMENTS
17358916	SYSWIDE COPY OF BUG 14839792 - ETM:CUSTOM CHANGE HANDLER ON PAYMENT EVENT EXCEPTION NOT
17369072	XAIXAI STDTIMEREF IS NOT BEING CONVERTED TO OUAF STANDARD TIME
17376032	BATCH ETM: ERROR ENCOUNTERED CREATING TO DO DURING BATCH ERROR
17378478	SYSWIDE LIST OF CHROME BROWSER ISSUES ON 4.2.0.2.0
17379574	UIMAP COPY OF BUG 17305257 - FW4.2 TO FW4.2 SP1 UPGRADE ALIGNMENT & JAVA SCRIPT ISSUES
17380127	PORTAL F1-DE DOES NOT SUPPORT PAGINATION FOR MULTIPLE SQL DATABASE QUERIES
17384044	RELEASE COPY OF BUG 17316663 - UT OUTBOUND MESSAGE PREFIXES NAMESPACE DETAILS TO EVERY E
17387216	PORTAL QUERY PAGENEXT CONDITION SHOULD NOT BE REPEATED IN PAGEPREV CONDTION.

Bug Fix	Description
17399370	SYS NO POP ERROR IS THROWN WHEN USER CLICK "CREATE ALGORITHM" WITHOUT ADD PERMISSION
17411212	RELEASE CHECK JAVA_HOME GREATER OR EQUAL TO 1.6
17411559	CONFIGTOOL INCONSISTENCIES WITH HTML GENERATION OF UIHINT:DISPLAYNONE
17416992	RELEASE ADD GENERIC USER EXITS IN WEB.XML TEMPLATES
17418451	XAIXAI COPY BUG 17418262 TO 4.2.0.2.0
17418970	CONFIGTOOL COPY OF 17384099 - STACKED CHART NEEDS TO SUPPORT MORE THAN 5 SERIES
17428495	CONFIGTOOL COPY OF 17258929 - ADDRESS VALIDATION NOT WORKING IN SP1 DEMO
17428619	COMMON 7365200 - COPY OF 17364929 - NO CURRENCY SYMBOL WHEN FORMATTING MONEY USING CURR
17428687	PORTAL PAGINATION - PREV/NEXT BUTTONS NOT DISPLAY TO LEFT WHEN ALIGN=LEFT IS USED
17429092	PORTAL PAGINATION - BUTTON BAR DOES NOT DISPLAY BELOW RESULT-GRID WHEN LOCATION=BOTTOM
17429335	PORTAL PAGINATION - BUTTON BAR DOES NOT DISPLAY LINK WHEN MNEMONIC DISPLAY=LINK IS USED
17432160	UIMAP COPY OF BUG 17377813 - ISSUE WITH ORAHANDLEDEPENDENTELEMENTS JAVASCRIPT FUNCTION
17432948	PORTAL PAGINATION - UNABLE TO USE VALUE SHOW=FALSE FOR PARAM RECORD COUNT DISPLAY
17432978	PORTAL PAGINATION - RECORD COUNT IS DISPLAYED ON UI EVEN IF THE PARAMETER IS OMITTED
17433093	PORTAL PAGINATION - ON PREV BUTTON CLICK, INCORRECT NUMBER OF RECORDS ARE DISPLAYED.
17434656	UN COPY OF BUG 17434604 - ARREARSBAR WIDTH ON CONTENT.XSL
17438370	DATABASE TABLE FIELDS HAVING NULLABLE IN METADATA AND ARE DEFINED AS NOT NULL ON DATABASE
17439746	SYSWIDE COPY OF BUG 17432895 - DEPENDENT DROP DOWNS: ISSUES WITH CLEARING FK REF CONTAIN
17454775	CONFIGTOOL COPY OF 16504293 - ON F1-DE-QUERY ZONE, USING REFRESH=PORTAL PARM ON MULTI SELEC
17458277	CONFIGTOOL COPY BUG 17450267 - MULTIPLE DATE ICONS ON FILTER MAP IS DISPLAYED WHEN ZONE
17464635	XAIXAI COPY BUG 17464596 TO 4.2.0.2.0
17465984	TODO COPY OF 17420015 - TO DO TYPE MESSAGE OVERRIDE NOT WORKING WITH F1-ADDTODOENTRY

Bug Fix	Description
17473957	CONFIGTOOL COPY OF BUG 17471956 - UI HINTS: DEFAULT VALUE IS BEING SET EVEN ON UPDATE
17478487	SECURITY COPY OF BUG 17438161 - PERSISTENT CROSS-SITE SCRIPTING (XSS)
17479115	PORTAL PAGINATION - BUTTON BAR DOES NOT DISPLAY ICON WHEN MNEMONIC DISPLAY=ICON IS USED
17479355	CONFIGTOOL COPY OF BUG 17472596 - REQUIRED FIELD IS MISSING ERROR WHEN TRANSITIONING EVEN I
17479539	PORTAL PAGINATION - JAVA SCRIPT ERROR WHEN QUERY ZONE IS SELECTED FROM A MULQRY ZONE
17480112	PORTAL JS ERROR IS THROWN WHEN CLICKED ON FK REF HYPERLINK
17480592	DATAEXPLOR COPY OF BUG 17337014 - PATCH 16689562 IS NOT WORKING
17489380	SCRIPT COPY BUG 17489370 COPY BUG 17489467 COPY BUG 17206714 - ETM: HAVE THE BROWSER
17490279	RELEASE COPY OF 17180419 - MWM TEMPLATES GETS OVERRIDDEN BY FW TEMPLATES UPON RUNNING IN
17504918	MIGASSIST COPY OF 17478927 - CMA IS NOT HANDLING "TIME" FIELDS CORRECTLY WHEN RUNNING F1-M
17506003	MIGASSIST CMA:SQLINTEGRITYCONSTRAINTVIOLATIONEXCEPTION EXCEPTION IS COMING AT THE TIME OF
17508045	COMMON COPY OF BUG 17055049 - NO RESPONSE WHEN CLICKED ADD AFTER EXPORT TO EXCEL
17510170	XAIXAI COPY OF 17505391 - CCB 2.4 CAN'T SEND MAIL THRU XAI DUE TO TYPO ERROR IN CLASS E
17511163	RELEASE CHANGE PROCESS TEMPLATE TO HANDLE MODULES DYNAMICALLY
17528274	TODO COPY OF BUG 17445631 - COPY OF 14681890 ONLY EXTRACT THE FIRST SKILL DESCRIPTIO
17534449	CONFIGTOOL COPY OF BUG 17441910 - ADD DIALOGUE THAT PROMPTS FOR BO SHOULD CHECK ADD SECURIT
17535135	GEN HIJIR MAPPINGS BROKEN IN FF 17ESR
17535690	COMMON COPY OF 17535672 COPY OF BUG 17456202 - COPY OF 17176825 - TO DO TYPE
17539824	XAIXAI FF : 00234 IWS DEPLOYMENT OPERATION FIELDS NOT VISIBLE
17542235	SECURITY COPY OF BUG 17533662 - JAVASCRIPT ALERT BOX WHILE EXECUTING BPA SCRIPT

Bug Fix	Description
17558780	SYSWIDE COPY OF 17517869 : ACCELERATOR KEY ALT-INSERT AND ALT-DELETE NOT INSERT/DELETE R
17560454	DATAEXPLOR PAGINATION - PREV/NEXT BUTTONS ENABLE EVEN WHEN NO RECORDS ARE FETCHED
17562189	BATCH COPY OF 16599494 - BILLING BATCH JOB FREEZES
17562401	CONFIGTOOL COPY OF BUG 17555647 - ETM: UIHINT:DEPENDENT FUNCTIONALITY NOT WORKING AFTER APP
17564470	SYSWIDE COPY OF BUG 17517777 - ACCELERATOR KEY ALT-RIGHT ARROW AND ALT-LEFT ARROW DOES N
17569995	SYSWIDE ILM SUPPORT-HANDLE NULL POINTER EXCEPTION (NPE) WHEN PARENT RECORD IS ARCHIVED
17584819	CONFIGTOOL COPY OF BUG 17583089 - ETM: DEPENDENT FUNCTIONALITY NOT WORKING IF DEPENDENT ELE
17587199	PORTAL PAGINATION:WHEN DISPLAY=ICON AND ICON="<ICON-PATH>" IS GIVEN, DEFAULT ICON APPEA
17596020	TODO COPY OF 17596015 - COPY OF 17506764 - CREATED LOG TYPE NOT INSERTED WHEN CREATIN
17602459	ENVIRON FW: COPY OF BUG 17602442 - APPLICATION NOT PROPERLY RELEASING THE SOCKETS
17604664	SYSWIDE COPY OF BUG 16925841 - COPY OF BUG 16186722 - COPY OF BUG 14575643 - CAN'T USE
17615874	BATCH BATCH LOS: REMOVE ALG ENTITY FLG 'REASON'
17624749	UIMAP COPY OF 17408028 - ADA: TOOLTIPS ARE NOT BEING GENERATED PROPERLY FOR FK REFS ON
17629150	DATABASE COPY OF 17348986 - ISSUE WITH THE ONS.JAR LIBRARY
17634530	ENVIRON ETM: SETTING WEBLOGIC DFILE.ENCODING TO UTF8
17638274	PORTAL PAGINATION:WHEN TYPE=APPEND AND DISPLAY=ICON, ONLY NEXT ICON/BUTTON SHALL DISPLA
17661834	BATCH COPY OF 17589610 - TIMED BATCH DOES NOT AUTOMATICALLY RECOVER WHEN PROCESS CRASH
17664385	MIGASSIST COPY OF 17651139 - CMA ON EXPORT - UNABLE TO COPY RECORDS ON TABLE C1_REP_GRP_ME
17696997	XAIXAI COPY OF 17649461 - UNABLE TO PROCESS INBOUND XAI REQUESTS WHICH DO NOT HAVE SOA
17711365	UIMAP INPUT MAP AND DISPLAY MAP GENERATING THE SAME MAP
17748110	UIMAP COPY OF BUG 17414002 - UIHINT:CAPITALIZE="TRUE" DOES NOT CAPITALIZE TEXT AFTER A
17749014	CONFIGTOOL COPY OF 17743032 - GUI SE: TIME DATA TYPE IS MISSING

Bug Fix	Description
17750870	XAIXAI COPY BUG 17750857 TO 4.2.0.2.0
17754380	SYSWIDE COPY BUG 17754375 - COPY BUG 17754366 - COPY BUG 17741118 - ETM: PATCHES CAUSING
17799642	XAIXAI COPY OF 17794062 - ERROR COMMUNICATING WITH XAI JAVA.IO.IOEXCEPTION: UNAUTHORIZ
17800918	CONFIGTOOL COPY OF BUG 17592316 - SEARCH FIELD FROM CUSTOM SEARCH NOT RETAINED ON THE FILTE
17808097	XAIXAI XAI INBOUND SERVICE ADDED -(F135783055) AS TEST DATA
17821581	RELEASE RELEASE BUG FOR 13770531
17830956	SYSWIDE COPY OF BUG 17830939 - COPY OF BUG 17609265 - LOCKING OCCURS IN USERZONEPREFEREN
17835698	MIGASSIST REVIEW DESCRIPTIONS OF MIGRATION PLANS IN DEV
17837536	GEN COPY OF BUG 16219683 - CCB 2.4.0 RATE SCHEDULE SERVICE AGREEMENT SEARCH ERROR WH
17837742	SYSWIDE COPY OF 16726511 - VERIFY AND SIGN CTI AND POS COMPONENTS
17838014	WORKFLOW COPY OF 17600131 - WORKFLOW PROCESS TEMPLATE BEHAVIOR DOES NOT MATCH CCB PROCESS
17841697	XAIXAI NEGATIVE ID CAUSES IWS SEMAPHORE LOCK DENIAL
17879109	TODO COPY OF BUG 17801211 - ADD TODO ENTRY QUERY PAGE DOES NOT FILTER OUT AUTOMATIC T
17879687	TODO COPY OF BUG 17879674 - COPY OF BUG 17760781 - SUPERVISOR TO DO ASSIGNMENT SHOWS
17890002	BATCH BYPASS TO DO FOR ARCHIVED ENTITIES
17902824	GEN API CHANGE MONITOR: CONSUTRUCTOR SHOULD BE IN REPORT.
17912181	BATCH COPY OF 17797353 - MWM: BATCH JOB M1-TSKTR FAILS EVERY MORNING DURING THE FIRST

Bugs Fixed in Version 4.2.0 Service Pack 1

Bug Fix	Description
9580915	APP VIEWER STARTS WITH WRONG LANGUAGE (INCORRECT COOKIE NAME)
12919398	INCONSISTANT SPACE BETWEEN INPUT TEXT AND CUSTOM SEARCH TEXT FIELDS.
13000579	11748 SECURITY & ENCRYPTION FOR CREDIT CARDS, PASSWORDS, SENSITIVE INFO
13080330	CONTEXT MENU NOT SHOWING UP THOUGH CONTEXT:TRUE IS SPECIFIED IN THE DISPLAY MAP.
13578297	FIREFOX-MDM: KEYBOARD FOCUS LOST AFTER SAVE/CANCEL OF RECORD
13618718	HORIZONTAL SCROLL BAR NOT VISIBLE FOR DISPLAY UI MAPS
13868034	MDM ADA: INCORRECT TAB STOPS IN UI MAP AND EXPLORER ZONE
13868197	MDM ADA: UI MAP ENHANCEMENT FOR INCLUDING TITLE IF MISSING IN HTML MARKUP
13896710	COPY OF BUG 13066151 - CLICKING ON THE DOWN ARROW DOES NOT REDUCE A DATEUSING O
14004760	VALIDATION REQUIRED FOR EXTERNAL URL
14119912	00378 USER FRIENDLY SCHEMA EDITOR
14157189	JS ERROR WHEN WE CLICK ON THE LIFECYCLE TAB IN THE BO PAGE
14222796	ADA: PAGE TABS ON 360 DEGRESS VIEW WERE NOT MARKED WITH ARIA TAB.
14238506	COPY OF 14238494 - ZONE MENU PRINT ZONE DOES NOT PRINT COMPLETE ZONE IN MAPEXPL
14313699	FIREFOX: TIME LINE ZONES ARE NOT DISPLAYING PROPERLY IN FIREFOX BROWSER.
14319227	COPY OF MAKE SYSUSER CMABLE
14328272	IN FIREFOX THE XAI SERVICE IMPORT PAGE IS NOT ALLIGNED PROPERLY
14328361	IN FIREFOX: UNABLE TO NAVIGATE TO ANY OTHER PAGE FROM XAI SERVICE IMPORT PAGE
14328440	UIHINT SELECT DROPDOWN NOT WORKING WHEN INPUT PARAM IS OUTSIDE LIST
14373356	SDP PROTOCOL SUPPORT FOR XAI
14377685	SELECTING ROW ON POPUP ZONE SEARCHES

Bug Fix	Description
14392770	JAVASCRIPT ERROR IS THROWN WHEN USER SELECTS A FILE TO UPLOAD IN ATTACHMENTS.
14400458	SYNC REQUEST PAGE HANGS ONLICK OF REFRESH PAGE
14510051	UNSET SERVICE SCRIPT GROUP ELEMENT IS NOT RETURNED AFTER INVOCATION
14510966	ATTACHMENT CONTENT (COULD BE BIG) SHOULD NOT BE SHOWN IN ADVANCED DEBUGGER
14542185	COMMON ATTACHMENTS - ISSUES
14562796	TEST DATA IN LOOKUP FLAG F1AW_OPT_TYP_FLG
14576442	MDM: SCHEMA TIPS/DOC MUST BE UPDATED FOR FLATTENED EFFECTIVE DATED ELEMENTS
14588358	COPY OF 14082530 - XAI ERROR PROCESSING XSD DATE FORMAT
14588484	COPY OF 14588469 - COPY OF 14401947 - GEOCODING SERVICE RETURNING INCORRECT RESU
14596139	COPY OF 14581708 - ODM: ERROR WHILE ADDING OWNED ATTACHMENTS
14599635	COPY OF 14569219 - BATCH SUBMISSIONS STAYS IN PENDING STATE
14600498	COPY OF BUG 14600491 - D1-IMD BATCH JOB IS FAILING WITH CLASSCASTEXCEPTION
14608227	UNABLE TO ADD A STATUS REASON ON ANY BO WHERE STATUS REASON BO IS FW'S CHILD BO
14614596	COPY OF BUG 14579412: ODM: UIHINTS: FKREF NOT WORKING ON LIST ELEMENTS
14615474	COPY OF 14565442 - ONBLUR IS NOT WORKING FOR XHTML MAPS
14618088	SCROLL BARS SHOWN IN THE DISPLAY MAP OF BO WITH UIHINTS
14626892	COPY OF 14560564 - LIST GRID IS DISTORTED WHEN A POP-UP ERROR IS DISPLAYED
14627866	COPY OF BUG 14524888 - ERROR MESSAGE IS BEING CLEARED IN SUBSEQUENT SERVICE CALL
14627989	COPY OF BUG 14627977 - COPY OF BUG 13893299 - OTSS: ADD NEW MANAGED CONTENT TYPE
14628258	COPY OF BUG 14521962 - SMS SEND SERVICE FAIL AUTHENTICATION
14628479	COPY OF BUG 14545944 - CONTEXT MENU FROM UI MAP POPULATES CONTEXT FIELDS INCORRECT

Bug Fix	Description
14630637	SUPPORT NEW LOOKUP GENERATION KEYWORD IN PATCH FILES
14631157	COPY OF 12366543 - SPL.SH DISPLAYS WRONG PROCESS ID (PID) FOR STARTWEBLOGIC.SH
14635211	COPY OF 14634316 MULTIPLE USERS DEBUGING GIVES ERROR
14635317	COPY OF 11067376 -XAI IMPORT SERVICE FUNCTIONALITY IS NOT WORKING
14635812	COPY OF 14189386 - WHEN WE RESET ZONE BUTTON TEXT ARE CLEARED
14637555	COPY OF 14539076 - ADD WLFULLCLIENT TO FW DISTIBUTION
14638816	COPY OF 14544366 - UIHINTS : CSV FILE UPLOAD NOT WORKING FOR BO'S WITH UI HINTS
14638817	COPY OF 14609627 - SHORT-TERM STRATEGY FOR HEADER TAB STOPS FOR CCB
14641272	Z1 COMPONENTS IN DEVELOPMENT ENVIRONMENT
14641392	COPY OF BUG 14565634 - UNABLE TO OPEN APP VIEWER FROM MENU (WRONG URL CONNECTION)
14642561	COPY 14642554 - ABILITY TO SET XAI TRACE TYPE SO THAT ONLY TRANSACTIONS IN ERROR
14648721	COPY OF 14504240 - MUP2'S SUBMITJOB.SH STAYS RUNNING TWICE AS LONG AS MUP2 RUNTI
14651147	COPY OF 14527006 - CCB: BATCH - SAX PARSER ERROR AND UNPREDICTABLE OUTPUT FILE L
14652819	ETM: ALLOW OPTION TO DISABLE AUTOMATIC FORMATTING OF NUMERIC FIELDS VIA UIHINTS
14654009	COPY OF 14559104 - DEFAULT VALUES SHOULD NOT BE APPLIED ON LIST ELEMENTS DURING
14658828	COPY OF BUG 14626695 - ERROR LABELING DYNAMIC FIELDS
14661035	COPY BUG 14661021 - COPY BUG 14629214 - ETM:ETPM LOGIN PERFORMANCE ISSUE
14661317	DISPLAY ONLY VALID XAI CLASSES IN THE SENDER/ RECEIVER SEARCH PAGE
14661459	COPY OF 14631396 - UIHINT:DISPLAYNONE CORRECTION TO NOT HAVE 'ITEM' AS FIRST PAR
14661918	COPY OF 14621732 - UIHINT: UI HINTS BS DROP DOWN IS NOT WORKING IN ONLOAD IF ID
14669676	ELEMENT 'SC' (SCROLL) IS NOT USING LABEL STYLE ORALABEL
14675636	ODM: OLD ERROR MESSAGE BEING SHOWN IN MULTI-QUERY ZONES

Bug Fix	Description
14680999	COPY OF 14544452 - ODM: UI HINTS ISSUE - DEFAULT VALUE IN DROPDOWN NOT GETTING S
14686683	COPY OF 14589038 - COPY OF 14353910 - BILLING BATCH RUN TREE IN ERROR AFTER RUNN
14692761	COPY OF BUG 14676277 - ODM V2.0.1 TPW HAS ISSUES ON AIX PLATFORM
14694752	EXPOSE BATCH GLOBAL VIEW ITEMS
14695217	COPY OF 14640113 - PK VALUE MISSING FOR LIST IN DA F1COMMONMESSAGEDATA
14695824	DATE TIME PICKER LABEL APPEARS IN XAI DYNAMIC SUBMISSION UI
14699133	CAPABILITY TO RUN DATABASE BLUEPRINT BY ANY NON-SCHEMA OWNER IS BROKEN
14699509	COPY OF BUG 14699506 - UNIQUE CONSTRAINT ISSUE FOR CI_TAX_ROLE_K
14703180	COPY OF 14671706 - INVALID D2-SSMETERREADTASKTYPE BO SCHEMA PRESENT IN APPLICATI
14706373	COPY OF 14727095 - REAL TIME HTTP SENDER DOES NOT IMPLEMENT HTTP TRANSPORT METHO
14708575	COULD NOT LOAD THE TRANSLET CLASS 'GREGORSAMSA'
14709991	COPY OF BUG 14708436 - FUNCTION DISABLEDATETIME DOES NOT DISABLE THE CALENDAR IC
14722199	ETM: DEFAULTING CURRENCY FROM INSTALLATION
14736675	DASHBOARD ZONES ARE OVERLAPPING
14737603	COPY OF BUG 14600735 - SHORT-TERM STRATEGY FOR CALENDAR ICONS
14740424	COPY OF 14730885 - DELETE SERVICE PROGRAM: CILYDFQL
14740550	COPY OF 14729592 - ORADISPLAYNONE ENFORCES BLOCK STYLE; ORAFIELD ISSUES
14746035	COPY 14751617 - JMS MESSAGES ERROR OUT IS ASSOCIATED USER HAS TRAILING SPACE
14747057	WHEN BO OPTION TYPE EXTERNAL SYSTEM IS SELECTED THE OPTION VALUE DOES NOT DISPLA
14752196	COPY OF 14602866 - CI_WF_PROC_K DATA ROLE FLAG SHOULD BE CONVERT (RETAIN PK)
14757161	COPY OF 14711726 - STATUS REMAINS IN PROGRESS WHEN WORKER KILLED
14757970	TEMPLATIZE JMX CONFIGURATION FOR THE APPSERVER

Bug Fix	Description
14763849	COPY OF BUG 14736785 - DATE/DATETIME DISPLAY FORMAT ISSUE ON TREES
14764710	COPY OF BUG 14664647 - MDM2.1.0 UIHINT DEPENDENT ELEMENT NOT GETTING POPULATED C
14770092	COPY OF 14736454 - COMPARE UTILITY ERROR 256 - A NON-ZERO CODE WAS RETURNED BY C
14770399	COPY OF 14751302 - WEBSPHERE BASIC/ND DEPLOYMENT SCRIPTS IN OUAF: V4.1.0.1.0 IS
14772819	FIREFOX : TABBING ON GO TO ZONE ICON NAVIGATES TO ZONE PAGE
14773808	COPY OF BUG 14708140 - 00371 IMPROVE PERFORMANCE OF DATABASE TAGGING
14774682	CUSTOM SEARCH POPUP HAS WRONG FONT ON CUSTOM SEARCH FIELD INFO STRING
14777124	COPY OF 14614586 - THE CONTEXT MENU BUTTON IN SOME UI MAPS ARE NOT WORKING. ON C
14790682	COPY OF BUG 14789571 - MISSING NAVIGATION KEY FOR SYNC REQUEST HELP DOCUMENT
14791458	COPY OF BUG 14772030 - ACCORDION DOES NOT ALWAYS DISPLAY THE GRID IT CONTAINS
14804081	COPY OF BUG 14804078 - COPY OF BUG 14803928 - COPY OF BUG 14803908 - COPY OF BUG
14805063	COPY OF 14240578 - JS ERROR ENCOUNTERED AND BUTTON IS DISABLED WHEN MAP IS CANCE
14831752	ER 405 - EMAIL SERVICE AND ATTACHMENTS
14835151	UIHINT:SECTIONOPEN="FALSE" BREAKS UIHINT:DEPENDENTS ONCHANGE EVENT
14844684	COPY OF 14744330 - EMAIL CLIENT PROBLEM IN BATCH ON 32 BIT
15829295	COPY OF 14808137 - MULTI SELECT ZONES ARE NOT WORKING CORRECTLY IF SORTED
15838578	COPY OF 13072602 ETM: OPA - ERROR GENERATING DATA AREAS/CALLING WEB SERVICE DI
15839437	QUERY ZONE NOT DISPLAYING TOTAL NUMBER OF ROW RESULT
15839882	COPY OF 14769626 - COPY OF 13790776 - USING RENUMBER BUTTON BRAKES SOME BPA SCRIPTS
15847477	COPY OF BUG 14647651 - HORIZONTAL SCROLL ON INLINE HELP POPUP
15867632	COPY OF 15863907 - COPY OF 15857954 - UNKNOWN DATE IS USED TO COMPARE AGAINST

Bug Fix	Description
15868749	ETM:XAI PRINTS USER PASSWORD IN XAI.TRC
15868783	COPY BUG 14787869 CCB CALL TO INTEGRATION LAYER WHEN THE JMS Q IS PAUSED THROW
15874664	REALTIME SENDERS CACHE NOT ACCESSIBLE FROM JMX
15893223	COPY OF 14156144 - SCRIPT ENGINE V 3.0 BUG - INCORRECT REFERENCING TEMPORARY VA
15893616	COPY OF 15873943 - SCR_CD IS INCORRECTLY UPPERCASED WHEN ADDING TO USER FAVORITE
15894676	COPY OF BUG 15841356 - ENHANCEMENT TO SUPPORT MULTIPLE DATA SOURCE INDICATOR
15905526	COPY OF 15905379 - INSTALLSF.PLX SHOULD ALLOW TO INSTALL CCB 2.4.0.0.0 HF ON 2.4
15919502	COPY OF 14851115 - MWM BATCH JOB M1-TSKTR RUNS AND KEEPS FAILING EVERY MINUTE
15943303	COPY OF 13883686 - RENDERING OF DATETIMES USING REFERENCED TIME ZONE DOES NOT SH
15948925	COPY OF 15945711 - COPY OF 14510102 - COPY OF 14394216 - ETM:IMPLEMENTING ETPM 2
15949665	COPY OF 10435036 - ADDING LARGE MESSAGE IN THE LOG TAB TRUNCATES, BUT NO WARNING
15952704	CTRL+SHIFT+S SHORCUT ENABLES THE DEBUGGER IN FIREFOX 17 ESR
15969738	COPY OF BUG 15963686 - COPY OF BUG 14684549 - ASSIGNMENT OF TO DO'S NOT LOGGED C
15974911	SPECIFIED COLUMN FOR SQL IN ZONE CONSIDERS C12 AS C1 AND APPENDS 2
15976526	NEWLY CREATED TODO TYPE IS NOT AVAILABLE IMMEDIATELY TO CREATE TODO ENTRY
15979879	COPY OF 13800043 - ENHANCE LOGGING TO INCLUDE CONTEXT IN SQL CALLS
15980396	COPY OF 15992858 EMIT EMPTY ELEMENTS ATTRIBUTE NOT RETAINED IN INCLUDED SCHEMA
15983232	ETM: INPUT FIELD IN A TABLE INSIDE A TABLE IS NOT GENERATING PROPER ID
15989640	EXTENDED LOOKUP RECORD GETTING DELETED WHEN WE CLICK ON CANCEL BUTTON
15999152	FIX DATABASE HEALTH CHECK SQL FOR INDEX VALIDATION
16008752	COPY OF BUG 15892253 - RECORDSLOADBATCH SHOULD USE THREAD-ITERATION STRATEGY

Bug Fix	Description
16019739	UIHINTS: SCHEMA VALIDATIONS NOT WORKING FOR GROUPS OR LISTS
16024356	COPY OF 14840823 - ANTLR CONFLICT ISSUE WITH WIN32
16034715	COPY OF 14755292 - IE 8 FROZEN AND HAS TO BE KILLED WHEN NAVIGATING ON TABLE MEN
16036807	COPY OF 14672381 - BATCH PERFORMANCE AND EXCEPTION HANDLING ENHANCEMENTS
16037258	MDM: JAXEN CAUSES XSLT/JAVASCRIPT FAILURE IN WEBSPHERE FW4.2
16047746	COPY BUG 16037414 - MISSING "SEQUENCE" ATTRIBUTE DEFINITION FROM CDXUSERMAIN
16090338	MDM : IMD ACTIONS PANEL IS BLANK WHEN CHOOSING UTC TIME ZONE
16091326	COPY OF 16087749 - ABILITY TO CALL A CUSTOM XAI SERVICE WITHOUT CHANGING THE FIR
16096506	COPY OF 16182645 - BS F1-SYNCMSTDTA SHOULD VALIDATE IF INPUT HAS A VALUE BEFORE
16100079	EJB INITIALIZATION UNABLE TO FIND SPL.PROPERTIES USING THE SPLEBASE ENV VARIABLE
16105233	MDM:UIHINT: SELECT DOES NOT WORK WHEN ELEMENT HAS ISPRIMARYKEY="TRUE" ATTRIBUTE.
16174565	JS ERROR WHILE SEARCHING IN DATA EXPLORER POP-UP
16186980	COPY OF 15966433 - BATCH JOBS REMAIN IN 'STARTED' STATUS IN CI_BATCH_JOB TABLE
16193071	COPY OF 13743074 - ERROR SERVER HAS ENCOUNTERED A PROBLEM WHEN SELECTING MORE TH
16205637	DEPRECATE -CHARACTERISTIC COLLECTION MAPS THAT WERE ADDED USING BUG 10397029
16215020	CLICK ON 'TEST UI MAP' LOADS INVALID UI MAP
16217185	COPY OF 16184414 - JOB FAILING WHEN CALLED ALGORITHM RAISES ERROR IN THE MIDDLE
16273717	RENAME DATABASE RELEASE UTILITIES AS PER ORACLE STANDARDS
16286927	COPY OF BUG 16184921 - ETM:DECISION REPORT (ATTACHMENT ENTITY) NAVIGATION DOES N
16290006	EXCEPTION THROWN WHENSYSTEM EVENT "GET LEVEL OF SERVICE" ADDED TO EXISTING BATCH
16293966	XAI COMPONENTS ARE NOT WORKING AS EXPECTED
16299048	4.2 SP1 AUDIT - FOREIGN KEY VALIDATION ERRORS

Bug Fix	Description
16315870	F1-EMAILMESSAGE SERVICE IS NOT WORKING BECAUSE OF BO SCHEMA ERROR
16326843	INVOKE BO FOR READ DOES NOT RETURN THE BO SCHEMA ELEMENTS
16368009	LOS IS ALWAYS SET ERROR FOR THE SUCCESFUL EXECUTION OF THE NON-TIME BATCH JOBS
16372187	ER 405-EMAIL SERVICE AND ATTACHMENTS-REVERT CHANGES MADE IN BO F1- EMAILMESSAGE
16374065	JS ERROR IS THROWN WHILE NAVIGATING TO CALCULATION RULE DISPLAY MAP
16448317	COPY OF 14592799 DELETE TEST DATA - BO_12375579_TEST

Bugs Fixed in Version 4.2.0.0

Bug Fix	Description
16517004	COPY OF 13000618 - UI MAP: SOME COMMON SCHEMA ISSUES FOR WHICH UI MAP NOT RENDER
14838056	ORASDUPG.PLX NEEDS TO BE UPDATED NOT TO ACCEPT VALUE FOR -U SWITCH
14574730	[XAI] WSDL URL CONTAINS INCOMPLETE SERVER NAME
14546912	ADD FUZZY SEARCH INFO (MOD 00155) TO THE ZONE TIPS
14543687	REMOVE REDUNDATE CALL TO SAVE ACTION DATABASE TAG
14539199	COPY OF 14484493 - COPY OF 14337865 - CCB: STALEOBJECTSTATEEXCEPTION WHEN ACTIVA
14537422	UP/DOWN ARROWS ON DORPDOWN BOXES IN A GRID DO NOT WORK AS EXPECTED
14525843	ODM:UI HINTS: SUPPRESS FUNCTIONALITY IS NOT WORKING UI HINTS
14521902	COPY OF 1453624 WSDLSEARCH SHOULD BE AVAILABLE ONLY FOR OPA WEB SERVICE ADAPTERS
14516683	F1-EXSYS CHAR TYPE DESCRIPTION
14516468	FIX AUDIT QUERY BY TABLE/FIELD/KEY DYNAMIC FIELDS TO MATCH FUSION LOOK
14516400	AFTER SELECTING VALUE FROM CUSTOM SEARCH IT CAUSES DOUBLE LOAD
14516373	CONTEXT MENU NOT WORKING ON UI MAP - JS ERROR ENCOUNTERED
14516361	BILL SEGMENT GRID IS NOT DISPLAYED AFTER FW UPGRADE
14501612	COPY OF 14501604 - COPY OF 14461057 - UI MAP?S ORADOWNLOADDATA DOES NOT WORK FOR
14500088	COPY BUG 13871351 - ERROR WHEN IMPORTING A BUNDLE CONTAINING SOME MOS
14499487	CHANGE BATCH GLOBAL VIEW TO BE CM OWNED
14499017	COMPARE DATE NOT SET ON IMPORT
14495958	COPY OF 14125771 - STABILITY ISSUE - REMOTE JVM SPAWN/ DIE LOOP
14490091	PARTIAL ACTION BUTTON SHOWING IF SWITCH FROM 1 QUERY TO ANOTHER ON MULTIQUERY
14485534	COPY OF 14305425 - STEPS OF SCRIPTS ARE NOT DISPALYED WHEN THE FRENCH LANGUAGE I
14484837	LOOKUP GENERATION FAILS IF A LOOKUP FIELD'S VALUE HAS A NULL JAVA VALUE NAME

Bug Fix	Description
14478611	CLASS CAST EXCEPTION WHEN SENDING NOTIFICATIONS
14475705	BGV:500 INTERNAL SERVER ERROR IS COMING IN BATCH CLUSTER PAGE.
14475508	BGV: UI ISSUES IN BATCH CLUSTER PAGE
14473950	4.2 COPY BUG OF BUG # 14318856 - ETPM LOGIN PERFORMANCE ISSUE
14472768	COPY OF 14292770 - ODM: BS F1-UPDATESYNCREQUEST HAS NON-EXISTENT APP SERVICE F1-
14465698	COPY OF 14366851 - ETM: NULL POINTER EXCEPTION ENCOUNTERED IF MESSAGE PARM TYPE
14465486	PROVIDE POSTINSTALLATION SCRIPTS FOR EDGEPRODUCTS
14463732	COPY BUG 14199085 - F1-ADDMOLOG BUSINESS SERVICE LIMITED TO 9 MESSAGE PARMS
14462188	ADD SYNC REQUEST SEARCH BY SYNC REQUEST ID
14459050	CALENDAR POPUPS ARE NOT DISPLAYING PROPERLY
14458941	ENHANCE SEARCH SELECTION AND FIX TABBING ISSUES ON SELECT ICON
14458122	CMA APPLIED AN INVALID SCHEMA (BAD SCHEMA CONSTANT)
14458045	FW420 DATABASE HEALTH CHECK
14456321	REPORT SUBMISSION DOES NOT WORK.
14402957	BGV: BATCH CLUSTER PAGE IS NOT DISPLAYING ALL TPW'S THAT ARE RUNNING IN THE ENV
14402924	CONTEXT MENU IS NOT DISPLAYING ALL MENU LINES
14395422	MAKE A CALL TO RETRIEVE BASE TIME ZONE LANG_CD AGNOSTIC
14392739	IMPROPER ERROR MESSAGE WHILE USER TRIES TO UPLOAD WITH EMPTY FILENAME.
14391697	JAVA SCRIPT ERROR "NAVOPTIONCODE IS NULL" IS COMING WHEN WE CLICK USERS IN WORK
14390431	CLEAR BUTTON DOES NOT WORK IN FIREFOX ,IN IE ITS WORKING
14386081	COPY OF 14358963 - COPY OF 13967754 - MSG_PARM_VAL FIELD TOO SMALL TO SUPPORT LO
14383530	LOOKUP VALIDATIONS TO ENSURE JAVA NAMES ARE CORRECT.
14380527	JAVAX.XML.TRANSFORM.TRANSFORMERCONFIGURATIONEXCEPTION WHILE SENDING MESSAGE

Bug Fix	Description
14378130	MODIFY SANITY TO USE ENVIRONMENTCONFIG.CSV AND OUAFCORE FUNCTIONS
14376352	IMPROPER ERROR MESSAGE BY ALGORITHM MANDATORY PARAMETER VALIDATION.
14375839	ISSUES WITH 'SECURE A MENU ITEM' FUNCATIONALITY.
14373600	COPY OF BUG 13932646 - TRIM APPLICATION PROPERTY VALUES
14372846	THREADPOOLWORKER DOES NOT SHUTDOWN WHEN KILLED THROUGH JMX
14368577	COPY OF 14368514 - COPY OF 14211260 - ONBLUR JAVASCRIPT EVENT IS NOT TRIGGERED
14368496	COPY OF 14368493 - COPY OF 14316987 - ODM, MDM: UI HINTS ISSUE - ORAINVOKEBS IS
14368197	REFRESHING PORTAL IN FIREFOX ADDS A BLANK LINE IN THE PORTAL
14367510	COPY OF 14367501 - COPY OF 14367480 - COPY OF 14352708 - GF5:ODM: DECLAREBO IS G
14366575	XAI SENDER CONFIGURATION NOT UPDATED IN REGISTRY
14366384	ENABLE JMX FOR UCP
14364539	CMA:-DUPLICATING FW OWNED MIGRATING REQUEST THROWS OWNER OF Z1-SECURITYCONFIG D
14364433	CMA-BATCH THROWS EXCEPTION WHEN EXPORTING DATA USING "F1-SECURITYCONFIG" MIGRAT
14362456	COPY OF 14226403 - [CC&B 2.3.1]: ADD REMOVE-SAVEPOINT OPTION FOR COBOL
14358523	CMA-BATCH IS THROWING JAVA.SQL.SQLINTEGRITYCONSTRAINTVIOLATIONEXCEPTION
14358287	CMA-GETTING EXCEPTION "INPUT REQUEST FIELD EXPIRATION DATE HAS AN INVALID VALUE"
14358050	EXTERNAL SYSTEM: ENABLE/ DISABLE PROPERTY OF "XAI SENDER" FIELD NOT PROPER
14357888	CI_DB_INSTR - OWNER FLAG IS NOW REQUIRED IN DB INSTRUCTION
14357836	FW CHANGES FOR 11698/10279307 MOD
14355026	COPY OF 14154392 - TPW BATCH JOBS FAIL TO FINISH
14354995	COPY OF 14349978 - OM2533;HIGH;BRT NOT UPDATING CORRECTLY WHEN SUBMIT JOB ABENDS
14352124	GET MORE BUTTON IS NO ALLIGNED AS PER STANDARD

Bug Fix	Description
14345044	COPY OF 13586965 - REMOVE CRYSTAL REPORTS INTERFACE FROM FRAMEWORK
14338552	ODM - SNAPSHOT MISSING AFTER RECEIVED ACKNOWLEDGEMENT
14331939	XML TYPE SUPPORT FOR MIGRATION
14329567	ODM:UI HINTS ISSUE: ADDING NEW ROW FUNCTIONALITY NOT WORKING IN RECURSIVE LIST
14324978	COPY 14301157 - ERROR IN WEBSERVICE MSG ENCODING OF POLISH CHARACTERS AFTER UPGR
14323777	COPY 14323755 - APPOINTMENT PAGE IS HANGING IF FA'S DISPATCH GROUP IS LINKED TO
14319093	UI HINTS - MAPFIELD AND MDFIELD ELEMENT ATTRIBUTES SEEMS TO BE CONFLICTING
14315227	COPY OF BUG 14267759 - DYNAMIC GENERATION OF UIMAP IS NOT WORKING
14315202	ZONE HEADER IS NOT REFRESHED FOR F1-DE-SINGLE ZONE TYPE.
14305959	ZONE WITH CHECK BOXES ARE NO LONGER SELECTED AFTER NAVIGATING TO ANOTHER PAGE
14304853	ETM: CHANGE 'ALLOW SEARCH' FLAG ON CHAR TYPE TO BE CM-ABLE
14304476	ODM: SCRIPT ERROR WHEN UI AND DA NAMES ARE SAME
14303135	REQUEST TO REMOVE THE CILVFVSL SERVICE FROM FW
14300738	COPY OF 13596527 - COBOL JVMS END WITH SIGSEGV OR SIGBUS
14293247	MIG PLAN CUSTOM SEARCH FOR CONSTRAINT GETS SECURITY ERROR
14292898	COPY OF 13447624 GENERATED CONFIGLAB DRIVER PROGRAMS - UNJAACCEPTABLE RESULTS FO
14286948	COPY OF BUG 14269714 - QUERY ZONE INCORRECT ORDER BY
14286098	COPY OF 13877910 - AUTOMATION SCRIPT DATS004 IS FAILING IN THE 4.1.0.4GF WEEK 7
14286021	GETTING NULL POINTER EXCEPTION WHEN TPW STARTED IN DISTRIBUTED MODE
14282968	THE KEYSTORE PASSWORD PROPERTY EXPOSES THE PASSWORD
14282181	VALIDATION IS FAILING WHEN WE GIVE BPA SCRIPT IN BO MAIN AND LIFE CYCLE PAGE.
14278629	BAD FORMATING OF ERROR MESSAGE USING CURLY BRACKETS

Bug Fix	Description
14278628	COPY OF BUG 13341067 - COMPLETING TODOS USING F1-UPDATETODOENTRY DOES NOT CREATE
14278610	COPY OF BUG 12947925 ETM: SUPERVISOR USER SUMMARY
14277354	"COPY OF 14353386 - ETM: CANNOT EXPORT TO EXCEL FILE FROM A CUSTOM ZONE"
14275998	ODM: 4.2 MIGRATION: SEARCHING BY ATTACHMENTS NOT WORKING CORRECTLY
14275986	ODM: 4.2 MIGRATION: NAVIGATION IS NOW INCORRECT
14275978	ODM: 4.2 MIGRATION: UIHINTS: DROPDOWN MISBEHAVING AND PICKING DEFAULT VALUE
14275956	ODM: 4.2 MIGRATION: ATTACHMENTS MALFUNCTIONING
14275948	ODM: 4.2 MIGRATION: UIHINTS: MISSING BLANK VALUE IN DROPDOWN
14275669	DISABLEELEMENT FUNCTION NOT WORKING FOR DROPDOWN
14275137	MPL RECEIVERS DO NOT FIND THEIR SENDERS
14270378	ERROR MESSAGE NOT BEING CLEARED FROM MAP AFTER INVOKING SS
14269454	FIRST NAME AND LAST NAME FIELD METADATA CHANGES
14265844	ORAMDFIELD IS NOT WORKING FOR FIELD TYPES
14260490	IE9 : JAVA SCRIPT ERROR WHEN CLICKING DELETE ICON
14260315	ODM: BUSINESS SERVICE F1-SYNCMSTDATA NOT UPDATING RETURNED BODETAILS XML
14259390	COPY OF BUG 14225342 - LABELS ARE NOT LOADED FOR THE FIELDS ON INPUT UI MAP OF D
14257292	TRANSFORM RAW SCHEMA TO EXPANDED XML ALLOWING OUTPUT FORMAT CUSTOMIZATION
14252543	COPY OF BUG 14252542 - COPY OF BUG 14211157 - ETM: CHECK FORM FUNCTIONALITY BROK
14251420	TO DO ROLE IS REQUIRED ON THE GENERIC TO DO ENTRY CREATOR ALG
14247790	BGV: BATCH CLUSTER PAGE DISPLAYING THREADPOOL NAMES TWO TIMES
14245757	FW DOES NOT RECOGNIZE XPATH OF RAW NODE'S CHILD AS MSG PARMS
14239492	COPY OF 14239487 - COPY OF 13986892 - SYSTEM BECOMES UNRESPONSIVE RANDOM TIMES D
14239337	SCHEMA SUBSECTION OUT OF SYNC WITH THE MAIN SECTION

Bug Fix	Description
14238142	COPY OF BUG 14236596 - COPY OF BUG 14235346 - OM2518;EMERGENCY;OUTAGE TOOL NOT G
14237868	INCORRECT OWNER NAMES IN ERROR MESSAGE WHILE TRYING TO ADD ALGORITHM VERSIONS
14237713	ALGORITHM MANDATORY PARAMETER VALIDATION FAILS.
14231495	COPY OF 13065384 - INCORRECT JAVASCRIPT VALIDATION OF NUMBERS
14231294	ASSIGNTODOSBYTYPEMAINPAGE XML IS MISSING.
14230092	BATCH JOB SUBMISSION DOES NOT SAVE MORE THAN 50 PARMS
14227538	UI HINTS - DETAILED DESCRIPTION INCORRECT DISPLAY USING MAX CHARS
14222098	REMOVE CCB-SPECIFIC F1_SVC_TASK_CL_FLG LOOKUP VALUES
14220564	HYPERLINK FOR APPLICATION SERVICE FIELD IS NOT WORKING IN SCRIPT PAGE
14220186	UIMAP TYPE "XHTML" GENERATING HTML CODE FOR EMPTY SCHEMA
14219243	FF:JAVA SCRIPT ERROR "WINDOW.EVENT IS UNDEFINED" IS COMING
14219211	FF:JAVA SCRIPT ERROR "CLIENTDOCUMENT.STYLESHEETS[1] IS UNDEFINED" IS COMING.
14217910	COPY OF BUG 14217908 - COPY OF BUG 14217692 - CONTROL CENTRAL CURRENT
14216942	COPY OF 14158456 ISSUES WITH MAINT. AND DISPLAY UI MAPS FOR ACTIVITY TYPES AND
14216920	COPY OF 13341915 DO NOT APPLY QUERY DATA EXPLORER QUERY LIMITS IN BATCH
14214828	IN I.E 8 THE SAVE AND CANCEL BUTTONS ARE NOT VISIBLE PROPERLY
14214746	ADDING A CHARACTERISTIC WRAPS THE CHAR VAL DESCRIPTION IN THE TABLE
14208203	WEB/EJB LAYER IS NOT FULLY DEMARCATED IN REQUEST CONTEXT
14207470	TWO "SHOW EDITOR" BUTTONS FOUND FOR ANY MPL COMMAND TEXT FILED
14203985	GETTING ERROR MESSAGE AT THE TIME OF IMPORITING STATUS REASONS.
14203102	UNABLE TO EDIT THE Z1_GEOCODE_2 SCRIPT .

Bug Fix	Description
14202506	JAVA SCRIPT ERROR " 'NULL' IS NULL OR NOT AN OBJECT" IS COMING.
14201433	COPY OF BUG 14057377 - MDM - CONTEXT FIELD VALUE IS NOT BEING SET PROPERLY (GF4)
14200658	IE:JAVA SCRIPT ERROR "'NAVCONTEXTS.0' IS NULL OR NOT AN OBJECT" IS COMING.
14198778	BLANK AND MISSING "MAP" DERIVATION SCRIPT OUTPUT INTERPRETED DIFFERENTLY
14198682	UNIX PROCESS NOT GETTING TERMINATED WHEN SHUTDOWN MPL
14197855	ALGORITHMS CANNOT CALL SERVICE TO RETRIEVE BO OPTIONS
14193081	MASTER CONFIG MAP ISSUES
14188603	ERROR IS ENCOUNTERED WHEN ACCESSING GEOCODE ADDRESS BUSINESS SERVICE
14188468	DEFAULT TO MANGED CONTENT XSLS WHEN F1-IAF FEATURE CONFIG IS MISSING
14187832	COPY OF 14187819 - FW: USE INTLEVEL(4) COBOL COMPILER DIRECTIVE IN CO.SH
14184646	CMA- GETTING AN EXCEPTION "THE OWNER OF THE F1_BUS_OBJ ROW CANNOT BE CHANGED"
14182583	IF LAST FIELD IN OBJECT IS LOOKUP W/ BLANK VALUE STRINGOUTOFBOUNDS ERROR OCCURS
14182124	UPDATE THE TITLE LOOK AND FEEL
14181813	11165 - CCB - ATTEMPTS TO REFRESH TO DISPLAY A PERSONS RECORDS FAILS
14181776	CONFIRM DELETE POPUP HAS TOO MUCH WHITE SPACE
14179747	JAVA SCRIPT ERROR IS DISPLAYED WHEN NAVIGATE TO PARAMETER TAB(REPORT DEFINITION)
14177426	JAVA SCRIPT ERROR IS COMING WHEN WE CLICK MESSAGE IN TODO SEARCH PAGE.
14175383	COPY OF BUG 14175370 - DOWNLOAD BUTTON DOESN'T OPEN UP DOWNLOAD DIALOG BOX
14174040	COPY OF 14009210 - ROLLBACK TO SAVEPOINT ROLLSBACK MO AUDITS AS WELL
14173581	COPY OF 14077172 - STORE EXTERNAL IDS IN OUTBOUND SYNC REQUEST FOR BI EXTRACTS
14173414	CANNOT OPEN "VIEW SCHEMA" AND "VIEW SCRIPT AS TEXT" SIMULTANEOUSLY
14173232	CLEAN THE UNNECESSSARY LOG

Bug Fix	Description
14173078	IN FF THE DETAILS TAB PAGE IN THE MESSGAE IS NOT ALLIGNED PROPERLY
14172806	COPY OF 14105789 - ODM: POP UP INCOMPLETE DISPLAY WHILE ATTACHING ATTACHMENTS IN
14172348	COPY OF 14072846 - DEFAULTING FOR SOURCESYSTEM IN F1-SYNCREQUEST PARENT BO SHOUL
14172173	COPY OF 13998057 - ATTACHMENT LABELS NEED TO BE UPDATED
14172119	SAVE BUTTON ALWAYS ENABLED
14169276	DESCRIPTION OF ALGORITHM TYPE F1-TDCREATE NEEDS UPDATE
14168234	JS ERROR THROWN WHEN WE CLICK ON THE CLEAR FILTERS IN THE FILTER UI MAP ZONE
14167607	JAVA SCRIPT IS ERROR COMING WHEN WE TRY CLICK ANY ZONE IN PORTAL.
14166359	CMA:ERORR MESSAGE IN LOG TAB PAGE AT THE TIME OF EXPORT IS NOT HELPFUL.
14165785	COPY OF 14165774 - COPY OF 13646497 - ETM: APPLICATION RESTART AFTER DB CONNECTI
14165555	THE SEVER HAS ENCOUNTED A PROBLEM ERROR WHEN UIHINT NAME SPACE IS OMMITED.
14164513	BUILD PRE-BUILT MIGRATION PLANS FOR CMA
14162067	COPY OF 14116770 - ATTACHMENT FILE NAME VALIDATION IS NOT CASE SENSITIVE.
14161148	COPY OF 13092441 - ISSUE AN ERROR WHEN A USER ATTEMPTS TO ADD AND DOESN'T HAVE S
14161042	SCHEDULER DAEMON IS DISABLED AFTER DB ERROR
14156235	COPY OF 14142345 RENAME "VIEW UI MAP" ZONE HEADER, UI MAP PREVIEW ISSUES
14156135	COPY OF 14068498 - CSV UPLOAD DOES NOT WORK FOR POLISH LOCALES
14154450	ORAAFTERLOAD FUNCTION DOES NOT PERMIT PARAMETERS
14148677	COPY OF BUG 14148675 - COPY OF BUG 14119401 -ODM DEPENDENTS WITH MULTIPLE VALUES
14142904	COPY 13815615 - XAI SENDER UNEXPECTED IOEXCEPTION RESPONSE CODE 202
14142734	COPY OF BUG 13443403 - DATETIME FORMAT CONVERSION ISSUE USING JMS QUE
14139725	BUSINESS OBJECT LIFE CYCLE OPTION TYPES ARE NOT VALIDATING WHEN WE GIVE ARBITARY

Bug Fix	Description
14128764	COPY OF 13387574: MAKE CENTRAL REPOSITORY'S ORA-ERROR MESSAGES MORE EXPLICIT
14128617	OSB TRANSPORTS
14125798	JAVA SCRIPT ERROR IS COMING WHEN WE TRY TO SEARCH FOR ALGORITHMS
14122025	COPY OF BUG 14052981 - ODM: FIREFOX : PIE CHART NOT VISIBLE IN FIREFOX
14119316	MAKE MIG PLAN AND MIG REQUEST BUNDLE-ABLE
14119262	IMPORT MOVE BY NAME BUSINESS SERVICE FROM MWM
14119199	CLEAN UP DUPLICATE MOS FOR SERVICES
14119079	INFO STRING FONT IN BUNDLE IMPORT AND BUNDLE EXPORT IS NOT AS PER STANDARD
14115190	CMA ZONES CONTAINING USER OBJECTS GET SYSTEM ERROR
14114768	COPY OF 13975543 - NO SUCH METHODE ERROR WHILE ACCESSING WSDL URL.
14112651	ODM:UI HINTS: ISSUES RELATED TO UI HINTS
14109410	COPY BUG 14014460 - FW COMPONENT TO SUPPORT OPA 10.4
14108117	ETM: TEMPLATE USER NOT WORKING FOR FAVORITE SCRIPTS
14106678	IE9 JAVA SCRIPT ERROR IS DISPLAYED WHEN CLICKING ON COPY BUTTON ON SCRIPT PAGE
14105443	CMA:'PRIMARY KEY 1 FIELD' IS MISSING MSG WHEN DUPLICATE MIG REQ AND CHG SEL TYPE
14104598	COPY OF 14066551 - COPY OF 14055292 - ETM: AFTER APPLYING PATCH 13397408, CUSTOM
14104580	COPY OF 14103613 - COPY OF 13899582 - ETM: AFTER APPLYING PATCH 13563830, COLLEC
14104086	SUPPORT FOR ORADISPLAYNONE WITHIN UIHINT FRAMEWORK
14103555	FKREF RELATED CONTROLS IN UIHINTS
14101681	SEARCH ICON IS BELOW THE OBJECT NAME
14101671	CMA: MASTER CONFIGURATION BO IS NOT ACCEPTING LONG FILE PATHS FOR IMPORT AND EXP
14100095	COPY OF 13983174 - ELIGIBLE SCRIPTS ZONE DISPLAYS SCRIPT THAT SHOULD NOT BE USER
14098363	COPY OF 14088232 - COPY OF 14023346 - DAYLIGHT SAVINGS CONVERSION FOR EUROPEAN T
14097649	CMA:EXPORT FUNCTIONALITY IS NOT WORKING WHEN WE TRY TO EXPORT STATUS REASONS

Bug Fix	Description
14097217	CMA: MIGRATION PLAN INSTRUCTIONS ARE NOT DISPLAYING AS PER INSTRUCTION SEQUENCE.
14096531	DATABASE TAGS ARE NOT SET ON THE EXECUTION OF THE SERVICE SCRIPT
14095431	ADA: CMA: FRAME-3 VIOLATION IN MIGRATION PLAN DISPLAY MAP.
14095282	ADA: CMA:FORM 3 VIOLATION IN MIGRATION PLAN MAINTENANCE MAP
14095067	COPY OF 13776695 - GEOCODING SERVICE DOES NOT RETURN ENOUGH INFORMATION
14091617	DATA BASE TAGS ARE NOT SET WHEN READ OPERATION ON BO USING BPA SCRIPT.
14091519	CLIENT_INFO IS NOT SET WHEN DELETE ACTION IS PERFORMED
14090425	COPY OF 14073599 - ATTACHMENT INFO PAGE IS NOT REFRESHED AFTER VIEWING AN EXISTI
14084870	ON FIELD PAGE FIELD NAME INPUT & SEARCH ICON IS NOT ALIGNED WITH OTHER ELEMENTS
14081241	COPY OF 14071432 - OM02489, FSTE KB_CMPREMUP#074- UC4 THINKS THE JOB IS STILL RU
14081137	JAVA SCRIPT ERROR THROWN WHEN WE TRY TO ADD A STEP IN SCRIPT
14077832	COPY OF 14077795 - BATCH: AIX EXIT JVM ON OOM & REMOVE NO PROP FILE ON CPATH MES
14076652	NOT ALL SQL PARAMETER TRACING ENABLED IN 4.2.0
14071627	COPY OF 14013309: REDUCE UPDATES TO CLOB COLUMNS
14071075	JS ERROR ENCOUNTERED WHEN TRYING TO DELETE SCRIPT STEPS
14071030	EXPORT IS FAILING WHEN WE CHANGE PHYSICAL BO IN MIGRATION PLAN
14066573	SIZING/SCROLLING ISSUES WITH DASHBOARD AND DASHBOARD ZONE
14063869	COPY OF 14021786 - THREADITERATION STRATEGY PROCESSES ALL WORKUNITS IN ONE THREA
14063568	COPY OF BUG 13926961 - TO DO TYPE DESCRIPTION FOR F1-SYNTD NOT USER FRIENDLY
14055561	MIGRATION OF NON-EXISTENT FW OBJECT CAUSES ISSUES
14055424	CANNOT APPLY CHANGES - NO DEFAULT STATUS FOUND
14054231	INSERT DATA IS FAILING AT THE TIME OF IMPORT

Bug Fix	Description
14052782	COPY OF 14052773 - FILTER VALUES CARRIED ACROSS MULTIPLE QUERY ZONES
14050346	Z1: ERROR OCCURRED WHILE CALLING JAVA FROM COBOL PROGRAM CIPETBLR
14045917	COPY OF 13903878 - UI MAP?S ORADOWNLOADDATA DOES NOT WORK FOR POLISH LOCALES
14045728	MIGRATION DATA SET TRANSACTIONS ZONE IS NOT DISPLAYING ALL TRANSACTION DETAILS
14045652	COPY OF 14042324 - PORTALS ARE NOT LOADING AFTER APPLYING RECENT PATCHES IN 4.1.
14045648	COPY OF 13466435 - JAVASCRIPT ERROR USING UPDATEABLE GRIDS ON FILTER MAPS
14044559	COPY OF 13591673 - CLEAN UP XSD/OUAF AND OUAF LOCAL/ LEGAL TIME CONVERSIONS TO BE
14044380	COPY OF 14021725 - NPE DELETING BO FROM XAI IN FORMATCONVERSIONS.CONVERTOUAFSTAN
14044333	COPY OF 13542160 - BATCH SCHEDULER DAEMON THROWS MAXIMUM OPEN CURSORS EXCEEDED
14042994	WEB SERVICE ADAPTER 'ADD USER LOG' DIALOGUE INCLUDES PROMPT FOR LOG TYPE
14040907	INCORRECT FIELDS HIGHLIGHTED IN RED
14037363	CANNOT EXPORT CM DATA USING SQL PROCESSOR OR SQL SELECT
14034749	COPY OF 14031573 - EXCEPTION IN ZONE DISPLAY
14032569	OBJECT IS NOT MOVING FROM PENDING STATUS TO ERROR STATUS IF WE PASS INVALID VALU
14028399	CMA:IMPORT IS FAILING WHEN WE TRY TO IMPORT DATA RELATED TO MESSAGE .
14026227	00384 - PORTAL PERSONALIZATION
14025198	[FF] IN 'BO-LIFE CYCLE' TAB, HEIGHT OF THE 'STATUS' PAGE IS LOW.
14023045	GENERATE ALL LOOKUP CLASSES TO MAKE PATCHING EASIER
14022939	COPY OF 13932471 - COPY OF 13928484 - VIEW SCHEMA LINK DOES NOT WORK AFTER GF4 (
14022320	REPLACE DATA EXPLORER EXPRESSION / MATH ENGINE
14016835	COPY OF BUG 13476649 - REQUEST FOR TO DO LIST TO SORT BY THE EXTRA INFORMATION
14016795	MULTIPLE THREADPOOLWORKERS DOESN'T START CONCURRENTLY

Bug Fix	Description
14012053	COPY OF 13967442 - DEFAULT IN SCHEMA DOESN'T ALWAYS WORK IN UI MAP ON ADD
14011926	IN IE : MISSING LABELS IN BATCH SUBMISSION PAGE OF ARABIC ENVIRONMENT
14010774	COPY OF 13896202 - ODM: ISSUE WITH CONTEXT MENU AFTER GF4
14003497	RECORD ACTION STYLE ISSUE - NO PADDING TOP OR BOTTOM TO ACCOUNT FOR BUTTON WRAP
14001829	COPY OF 14001759 - TIGHTEN TPW STARTUP TO AVOID POTENTIAL NPE
13999979	VIEW DATA AREA IS THROWING "ERROR 500--INTERNAL SERVER ERROR"
13993426	INFO DATA EXPLORER WORKLIST WITH SEPARATE LISTDESC NOT PROCESSED
13985585	COPY OF 12853123 - EMBEDDED QUOTES ARE STRIPPED OFF IN BS/SS CALLS FROM BPA
13982688	FOR NEW SCRIPT CHANGE THE DEFAULT FROM "USER INVOCABLE" TO "USER NOT INVOCABLE"
13981217	LOADING USER GROUP PAGE GIVES ERROR "WEB SERVER DID NOT RESPOND CORRECTLY"
13980740	ZONES IN CONTROL CENTRAL ARE NOT LOADED
13972662	COPY OF 13856874 - COPY OF 13591144 - ERROR MESSAGE DURING THE STARTUP OF CCB V2
13965581	COPY OF 13482874 - ETM: DUPLICATION OF C1-FORMUPLOADSTAGINGTYPE BO FAILED WITH
13965575	COPY OF 13114325 - EXCEPTION IN PORTALINFOREPOSITORY CAN CAUSE CACHE TO BE EMPTY
13965554	COPY OF BUG 13964449 - ADD F1-SYNCREQUESTMO BO IN FRAMEWORK
13965175	COPY OF 13466795 ADVANCED LOGGER CRASHES WHEN FASTUPDATE IS USED
13965150	COPY OF 13716542 CANNOT CALL BASE METHOD GETREFERENCINGCONSTRAINTS FROM CM CODE
13957277	ADDRESS BUILDER FOR UI MAPS
13956934	COPY OF 12880545: FORTIFY HEADER MANIPULATION CHANGES
13954235	COPY OF BUG 13949969 - DELETE F1-SYNCRQALERT FROM FRAMEWORK
13953537	COPY OF BUG 13338099 - INCONSTANT TIME FORMAT SHOWN IN SEARCH QUERY FILTER DISPL

Bug Fix	Description
13951108	COPY OF 13950880: ERROR WHEN UPDATING PRIMARY KEY
13946270	COPY OF 13683925 - COPY OF 13472371 - DF 1149 CONFIGLAB: V2.3 CI_BSEG_SQ - MULTI
13942037	COPY OF 13867642: MOVE BY NAME API TREATING GROUPS AS FIELDS
13941868	MULTI SELECT BPA THROWS ERROR ON FOR LOOP
13938958	COPY OF BUG 9726218 - DATA EXPLORER RESET ZONE DOES NOT SUPPOR FILTER AREA UI MA
13938838	COPY OF BUG 13000552 - 00376 - INFRASTRUCTURE FOR COMMON ATTACHMENTS
13936840	COPY OF 13920317 - ELIGIBLE SCRIPTS ZONE DISPLAYS SCRIPT THAT SHOULD NOT BE USER
13936594	SEARCH ZONE FOR BO CODE ON MIG PLAN SHOULD INCLUDE MO
13935601	NAVIGATION TO PORTAL DOESN'T CHANGE ID
13928083	SHOW TRACE CAUSES JS ERROR - INVALID ARGUMENT
13927814	OUAFUIHINTSSCHEMAVALIDATOR INCORRECTLY INVALIDATES CUSTOM NAMESPACE ATTRIBUTE.
13922812	MAKE HOUSE_TYPE2 FW OWNED AND HOUSE_TYPE CUSTOMIZABLE
13922446	STATIC ANALYSIS : PRIVACY VIOLATION - 2
13922080	STATIC ANALYSIS :JS OPEN REDIRECT
13920215	XLIF_PARSE.PLX NEEDS TO BE CHANGED TO PASS DATABASE DETAILS
13919751	NEWLANG.PLX NEEDS TO BE CHANGED TO RUN IN SILENT MODE
13899961	SOME NON-TRANSLATABLE DATA APPEARING IN THE "STRINGS EXCEEDING CAPACITY" PAGE
13899835	ALLOW A BO READ TO OUTPUT EMPTY ELEMENTS
13898609	REVIEW TRANSLATION STRINGS EXCEEDING CAPACITY OF 70% AND TAKE ACTIONS
13897409	COPY OF 13738834 - F1-CHVAL SEARCH ZONE DOES NOT RETURN ANY VALUE
13896878	UITS031 FAILING IN 4.2
13896865	UITS022 FAILING IN 4.2
13896834	UITS022 FAILING IN 4.2
13896785	UITS013 FAILING IN 4.2

Bug Fix	Description
13894288	PORTAL ZONE GETTING NULLPOINTEREXCEPTION AT PORTAL.USERZONE.GETWIDTH
13891289	DUPLICATE KEY ISSUE WHILE CREATING A NEW BO
13890858	AUTOMATION TEST SCRIPT "XAITS011" IS FAILING DUE TO SCRIPT PROBLEM
13889492	CALENDAR ICON - INCORRECT DISPLAY ON OLD UI PAGES
13886287	COPY OF 13584527 - IN A ZONE THE ORDER BY DOESNOT WORKS EXCEPT FOR THE FIRST COL
13885850	COPY OF 12944751 - FW DOES NOT PREVENT 'DUPLICATE' JAVA FIELD NAMES FOR LOOKUP
13873450	CREATE GENERIC DATA AREA FOR OUTBOUND MESSAGE
13872757	ADD DASHBOARD ZONE FOR VIEWING BO SCHEMA BASED DISPLAY AND MAINTENANCE MAP
13863622	BRING CITY_UPR, ADDRESS1_UPR AND DESCR_UPR TO FW
13863599	INCREASE SIZE OF CITY, COUNTY, CITY_UPR FROM VARCHAR2(30) TO VARCHAR2(90)
13860764	AUTOMAITON SCRIPT GNTS007 IS FAILING ON 4.2_SPRINT2 BUILD
13860445	AUTOMAITON SCRIPT DATS004 IS FAILING ON 4.2_SPRINT2 BUILD
13857178	RECORD INFO SECTIONS NEEDED ON DISPLAY MAPS
13857143	COULD NOT DELETE A MIGRATION PLAN INSTRUCTION
13850331	CMA- CANCEL BUTTON IN MIGRATION DATA SET IMPORT PAGE IS NOT WORKING AS EXPECTED.
13847164	SET DESCRIPTION AREA = FALSE ON CMA AND BUNDLING ZONES.
13841865	CALENDAR POPUPS ARE GETTING NAN WHEN DATETIME FIELD IS BLANK
13841527	HANDLE NULL POINTER EXCEPTION (NPE) WHEN PARENT RECORD IS ARCHIVED
13834559	COPY OF BUG 13103827 - ALGORITHM PAGE PARAMETER ISSUES
13834469	COPY OF 13697445 MULTIPLE MOS USING THE SAME SERVICE
13831533	ADA-MDM: DATA EXPLORER QUERY ZONE CREATES QUERY FILTER - HAS TABLE-6 VIOLATION
13830270	IE CANNOT DOWNLOAD XMLTOCSVDATASERVLET
13825465	COPY OF 13825452 - COPY OF 13627400 - ERROR MESSAGE IS DISPLAYED WHEN ¿ENTER¿ IS

Bug Fix	Description
13823461	{INFO}ALGORITHM PARAMETER REQUIRED VALIDATION IS NOT TRIGGEREDIN THE LETTER EXTR
13817348	COPY OF 13714692 - ORASELECT TABLE ATTRIBUTE ONLY WORKS FOR STRING PRIMARY KEYS
13817341	COPY OF 13510533 - OM02318;MEDIUM; GLOBAL CONTEXT APPENDED TO THE FAVORITES URL
13815625	COPY OF BUG 13693133 - FILENAME TO CONTAIN EITHER THE OUTBOUND MESSAGE ID OR THE
13808660	COPY OF 13719119 - PRE-DEFINED CHAR TYPE REQUIRES AT LEAST ONE VALUE
13802837	COPY OF 13481000 RELATED TO DO COUNT MISMATCH
13800910	COPY OF 13790920 - STATIC ANALYSIS : SQL INJECTION - 3
13800271	CONCURRENCY ERROR AFTER WARNING SUCH AS USING REVISION CONTROL WITH CHECKOUT.
13796275	COPY OF 13796271 - COPY OF 13796080 - DEFER MO AUDIT UNTIL COMMIT
13795884	COPY OF 13791563 - ADD USER EXIT IN TPW & BATCH SCRIPTS FOR SETTING VARIABLES
13789048	F1-SYNCRQSTL ZONE ONLY SUPPORTS TO DO ENTRIES AS RELATED FK CHARS ON THE MO LOG
13785291	COPY OF 13785287 - COPY OF 13703447 - ORANAVIGATE ISSUE
13783053	COPY OF 12952592 MATCH EVENT PAGE REACHING MAXIMUM NUMBER OF CHANGES
13780052	COPY BUG 13606758 - DECIMAL FORMAT SUPPORT FOR MDM EXTRACTORS
13775225	00394 -ISSUES WITH DATABASE HEALTH CHECK HIGH IMPACT QUERIES
13774824	COPY OF 13743297 - COPY OF 13610157 - XAI SENDS WRONG FAULT MESSAGE, WHEN CANNOT
13772421	CMA- SEARCH FUNCTIONALITY IS NOT WORKING IN MIGRATION PLAN - DESCRIPTION.
13771599	MIG REQ SEQUENCE NUMBERS SHOULD BE HIDDEN AND AUTO-CREATED
13768805	COPY OF 13538242 - ETM WEB SERVER CONNECTS DIRECTLY TO DB
13742197	CMA-ERROR-SOURCE ENVIRONMENT REFERENCE FIELD MISSING IS COMING IN EXPORT
13740703	CMA- PARENT INSTRUCTION SEQUENCE IS NOT BLANK OUT IN MIGRATION PLAN

Bug Fix	Description
13736451	COPY OF 13592429 - USER FILTERS ARE NOT SHOWN PROPERLY ON PORTAL ZONE
13736366	COPY OF 13542447 - TIMELINE ZONE - TAX ROLE ALGORITHMS ISSUE
13734472	REMOVE SYSTEM PASWORD FROM CDXDBI
13734333	RENAME OWNERORASCHUPG.EXE FILE TO ORASCHUPG.EXE
13731235	IN FF EXPORT TO EXCELOPTION OF ZONE IS THROWING AN ERROR FOR DATE USER FILTER
13730909	COPY OF BUG 11842096 -ETM : ADVANCED DEBUGGER TRACE DOES NOT SHOW EXECUTION TIME
13730165	COPY OF 13684647 - WAM - REQUEST SEARCH ZONE FOR OUTBOUND MESSAGE TYPE
13726254	COPY OF 12878725 - CACHEABLE HTTPS RESPONSE
13726242	COPY OF 13403263 - BATCH JOB TERMINATES BECAUSE SESSION VARIABLES NOT SET PROPER
13724517	COPY OF 13640425 - NULL POINTER EXCEPTION WHEN WE EDIT THE SEQUENCE NUMBER IN FE
13721912	CMA-MIGRATION PLAN SEARCH ICON IS NOT AVAILABLE IN MIGRATION REQUEST
13721336	CMA-TRAVERSALCRITERIA DROP DOWN SHOULD BE DISABLE IF INSTRUCTION TYPE IS PRIMARY
13715318	COPY OF 13572162 - FIX THE SERVICE TASK SYSTEM DATA DESCRIPTIONS
13710352	COPY BUG 13040804 - ERROR IN WAS LOGS COULDN'T RETRIEVE SESSION OUAF SECURITY TO
13710294	COPY OF 13624926 - COPY OF 13397408 - CONCURRENT UPDATE ISSUE FOR PERSON
13710096	COPY OF 13695127 - MASTER CONFIGURATION DERVIVED SS DOES NOT INVOKE DISPLAY MAP
13707336	COPY OF BUG 12651672 - FIREFOX: XAI DYNAMIC SUBMISSION NOT WORKING
13705095	COPY BUG 11736915 - ETM: 40120 - BANKRUTPCY QUERY NAVIGATION ISSUES
13691490	COPY OF 13558811 - ALIGNMENT AND PLACEMENT OF VEW SCHEMA / XSD LINKS
13690609	COPY OF 13035973 - MESSAGE RETURNED FOR SQL ERROR PROVIDES DETAIL WHICH COULD PE
13689499	COPY OF 13647602 - COPY OF 13563830 - AFTER APPLYING PATCH 12330214, COLLECTION

Bug Fix	Description
13689420	COPY- BUG 13058866 - COMPOSITE INDEX NEEDS TO BE CREATED ON F1_SYNC_REQ_IN_REL_O
13689225	COPY OF 13530438 - COPY OF 13502466 - PATCH 13009443 / THE EXPORT TO EXCEL FUNCT
13656477	REMOVE LONG DESCRIPTION ON LOOKUP WHEN PURPOSE IS TRANSLATION CONTEXT
13656311	MAINT_OBJ_SEVT_FLG INCORRECTLY MARKED AS NOT TRANSLATABLE
13655686	COPY OF 13599828: CACHE INITIALCONTEXT
13654764	CMA - MIGRATION PLAN SEARCH ZONE IS CHECKING CASE(LOWER AND UPPER CASE)
13654234	CMA-SPRINT1- HELP ICON IS NEEDED IN MIGRATION PLAN MAINTENANCE UI MAP SQL TRAVER
13649561	COPY OF 13368597 - "IMPORT BUNDLE" SHOWING INCORRECT INFORMATION WHILE IMPORTING
13649303	COPY OF 13108177 ETM23_ESA:TAX:VIEW SCHEMA & VIEW XSD APPEARS UNTRANSLATED
13644914	COPY OF 13418766 - AFTER APPLYING PATCHES, EXPORT TO EXCEL DOES NOT WORK
13644337	COPY OF 13567456 - UIHINT NAMESPACE IN BO SCHEMA IS STRIPPED OFF DERIVED OBJECT
13641615	COPY OF 9720316 - COBOL: NILOBJECT DOES NOT UNDERSTAND CLOSE
13640669	COPY OF 13634933 - CHILD JVM'S DO NOT RECYCLE
13637218	COPY BUG 13366648 - IN TABLE WHEN ONLY ONE CELL VALUE IS CHANGED ONCHANGE IS FIR
13631410	COPY BUG 13056557 - WPTG_TBT:GBU:DNT:Q&A192105 - 1:TRANSLATABLE WORDS IN STUDLYC
13631130	COPY BUG 13024297 - TWO "SHOW EDITOR" BUTTONS FOUND FOR XAI COMMAND TEXT FILED
13609318	OUTBOUNDMESSAGEDISPATCHER FAILS TO INVOKE THE BO PRE-PROCESS ALGORITHM
13607001	COPY OF 13606925 - SEPARATION OF USER EVENT HANDLERS VS FW EVENT HANDLERS IN UI
13604511	COPY OF 13597029 - INCORRECT/NAVIGATION TO PORTAL FROM TREE
13603563	APP VIEWER POP-UP NOT DISPLAYING TRANSLATED COPYRIGHT MESSAGE
13602567	COPY OF 13473484 - COPY OF 13103648 - SMCP00361: CONTEXT MENUS IN THE GENERAL IN

Bug Fix	Description
13599991	COPY OF 13600138: SCRIPT ELEMENTTEXT METHOD CALL BROKEN
13595587	COPY BUG - BUG 13546316 - DESCRIPTION INPUT FIELD LENGTH - SEARCH NAVIGATION KEY
13594404	COPY OF 13594368 - RTL: FW NOT RENDERING PROPERLY IN RTL ENVIRONMENTS
13594111	COPY OF 10127456 - MDM_20_AR:4101:TEST SUPPORT FOR RIGHT-TO-LEFT LANGUAGES IN UI
13592364	COPY OF 13592354 CLEAN UP XSD/OUAF AND OUAF LOCAL/ LEGAL TIME CONVERSIONS TO BE C
13586162	COPY OF 13547016 - APPLICATION SERVICE FIELD MISSING IN BUSINESS SERVICE PAGE
13583247	COPY OF 13582265 - COPY OF 13453642 - CONFIGLAB: V2.3 MISSING RI CHECK USER GROU
13583087	ETM23_ESA: DEFAULT TO DO ROLE F1_DFLT NOT TRANSLATED IN ESA REGION
13582546	COPY OF 13402954 - USE BO PORTAL NAVIGATION OPTION FOR CHARACTERISTIC FK NAVIGAT
13582511	COPY OF 12880507: FORTIFY RACE CONDITIONS
13579610	COPY OF 13546170 - MESSAGE TEXT IS INCORRECT AND CONFUSING
13578376	COPY OF 13345594 - COPY OF 9935226 - RECEIVING WARN (HOST.SQL.COBOLSQLPARAMMETA
13577597	COPY OF 13147038 - COPY OF 12874950 - IMPROVE NEXT BATCH NBR HANDLING AFTER TPW
13577109	COPY OF 12612081: PERF POOR RESPONSE TIME FOR TODO SUMMARY PAGE
13575475	COPY OF 9665763 - MWM - HTML FORMATTING IN INFO STRING CAUSES INCORRECT RENDERIN
13575454	COPY OF 13535530 - THE PAGE DOES NOT LOAD SUCCESFULLY WHEN ORAINVOKEBO IS USED
13575426	COPY OF 13494544 - 'UNKNOWN' VALUE IS COMING IN SEASONAL TIME SHIFT GRID
13575412	COPY OF 13473266 - "VIEW XSD" LINK ON "DATA AREA" IS NOT WORKING.
13575336	COPY OF 13445845 - ADA: VIOLATION TABLE-6 THIS LAYOUT TABLE COULD BE CONFUSED FO
13575006	COPY OF 13559592 - UIHINT NAMESPACE IN BO SCHEMA IS CAUSING DYNAMIC MAP GENERATO
13574562	ZONE FILTER: INITIALLY COLLAPSED ZONE - FILTER DESCRIPTION AREA

Bug Fix	Description
13571817	COPY OF 13418754 - PRINT BUTTON DOES NOT WORK IN SOME CASES
13571577	COPY OF 13513515 : TAB 'TOOLTIP' REPEATS WHEN CURRENTLY SELECTED TAB IS CLICKED
13570658	COPY OF 13388129 - F1-CHVAL SEARCH ZONE RETURNS DESCRIPTION FOR ALL LANGUAGE
13570505	COPY OF 12541643 - ADA: UI MAP EXTENSIONS - GENERATED UI MAP IS NOT ADA COMPLAIN
13570497	COPY OF 12730073 - FW: TIMELINE NOT DISPLAYING PROPERLY IN FIREFOX
13570492	COPY OF 13395670 - UNABLE TO OPEN APPLICATION VIEWER AND SCRIPT ERROR
13570488	COPY OF 13417035 - ETM: INCORRECT VALUE/FORMAT OF HTML "ID" ATTRIBUTE UPON UI MA
13568265	ETM23_ESA: FIX THE SEARCH TYPE 'ALTERNATE' DESCRIPTIONS TO ADD SPACE BEFORE NBR
13567430	COPY OF 13567408 - COPY OF 13557410 - CANNOT DISPLAY ERROR MESSAGE ON NOTIFICATI
13564963	UNABLE TO SAVE IN BO STATUS REASON CHARACTERISTIC TABLE AS SEQ_NUM IS NOT SET
13557716	COPY OF 12663414 - UNABLE TO RETRIEVE OLD/NEW VALUES FOR COMPARISON WHILE SAVING
13557314	COPY OF 13498430 - OM02326;CRITICAL;USER INFO. NOT RETRIEVED WHEN USING LOWER CA
13511356	COPY BUG 13511352 - COPY BUG 13409281 - ZONE AUTOREFRESH CAUSES CHILD DE SEARCH
13509930	COPY OF 13494682 - COPY OF 13494493 - ADD NEW FEATURE CONFIG TO EXTRACT DATA SOU
13477260	COPY OF 13477249 - COPY OF 12747604 - PERSON IN CURRENT CONTEXT NOT REFRESHED WH
13475839	COPY OF 13417640-JAVASCRIPT ERROR WHEN WE CLICK ANY EXISTING TODO
13458988	ONLY LAST ZONE IN SEQUENCE AUTOREFRESHES IF REFRESH INTERVAL THE SAME
13444026	ADD INDEX ON CI_AUDIT TO ENABLE SEARCH ON SECOND PART OF THE PRIME KEY
13440752	ECTRANSL - GERMAN - TOOL TIP TEXT IS NOT TRANSLATED CORRECTLY
13423423	NOT GIVING PROPER MESSAGE IN CREATING ENTITY IN BUNDLE EXPORT

Bug Fix	Description
13420230	REQUEST TIMELINE ZONE TO HAVE THE FUSION STYLESHEET
13409135	ORPHAN MENU DATA RELATED TO NOTIFICATION DETECTED BY F1-FKVBP
13408944	ORPHAN SCRIPT DA RECORD DETECTED BY F1-FKVBP
13400386	JAVA SCRIPT ERROR IN SEARCH PORTAL ZONE WHEN WE SWITCH BETWEEN QUERY OPTIONS
13385782	ENHANCE DEBUGGER FOR JAVA TO JAVA CALLS
13329819	FW_AP_INIDATA.SQL MAY NEEDS TO BE CORRECTED IN FW410
13323576	JAVASCRIPT PERFORMANCE ISSUE
13146264	HOVERING OVER A MENU WITH NO SUBMENU SHOWS SUBMENU OF ADJACENT ENTRY
13103489	ISSUES WITH METADATA FOR ALGORITHM TYPE F1-GEN-BOMNJ
13092910	BUNDLE AND REQUEST MAINTENANCE SHOULD BE UPDATED TO FUSION LOOK
13012360	FW - MOUSE OVER TEXT DISPLAYS ERROR EXTRA VALUES
13011324	FIREFOX: BPA SCRIPT: ON STEPS TAB SCROLL BAR IS NOT WORKING CORRECTLY
12995176	UNWANTED BLANK AREA AT BOTTOM ON THE HOME PAGE
12986080	GIVING JAVA SCRIPT ERROR ON SCRIPT STEP PAGE
12978055	ALLOW NAVIGATION USAGE = GO TO IN NAV OPTIONS OF TYPE= SCRIPT
12967097	RUSSIAN LANGUAGE PACK DOES NOT DISPLAY ADMIN MENU CORRECTLY.
12839851	CCB 2.3.1 INSTALLATION: ERROR AFTER FW INSTALL STEP
12722396	FIREFOX: UNNECCESSARY SCROLL BARS ARE COMING IN DASHBOARD PAGE
12632389	00273 ABILITY TO SECURE A MENU ITEM THAT IS CM'ABLE
12555620	COMMON.JS DISABLE/ENABLEELEMENT FUNCTIONS DON'T WORK
12549655	ENHANCING SUPERVISOR TO DO ASSIGNMENT
12325528	WPTG_TMS_LT_T13Y:CNTXT:Q&A183122:MDM_201:CONTEXT ISSUE - MEANING OF ITEM
10298108	ADD REMOVAL OF UNUSED APPLICATION SERVICES TO THE DB HEALTH SCRIPTS
10262953	00336 ADD OPA WSDL SEARCH TO WEB SERVICE

Bug Fix	Description
9306387	SEVERAL DISPLAY ICONS OWNED BY F1 SHOULD BE PUSHED TO THE EDGE PRODUCTS
9272999	ETM REQUEST FOR MORE MEANINGFUL MESSAGE IS FBH AND FUS LOG
9266466	BI PUBLISHER NEED BILL TO BE DISPLAYED IN PDF FORMAT
8805940	2245:INVALID TR - TO DO ENTRIES < DAYS OLD SHOULD BE GREEN...

Appendix D

License and Copyright Notices

This section provides license and copyright information for the associated products. This includes the following:

- Notice Concerning Usage of ANTLR

- Notice Concerning Usage of Apache Software

- Notice Concerning Usage of ASM

- Notice Concerning Usage of Concurrent

- Notice Concerning Usage of DOM4J

- Notice Concerning Usage of International Components for Unicode (ICU4J)

- Notice Concerning Usage of Jaxen

- Notice Concerning Usage of JCIP Annotations

- Notice Concerning Usage of SLF4J

- Notice Concerning Usage of Staxmate

- Notice Concerning Usage of XMLPULL

- Notice Concerning Usage of XMLUnit

- Notice Concerning Usage of XStream

- Notice Concerning Usage of YUI

Third-Party Products

The following sections provide notices and information about the third party products indicated.

Notice Concerning Usage of ANTLR

[The BSD License]

Copyright (c) 2010 Terence Parr

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

\THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Notice Concerning Usage of Apache Software

The following files are covered under the Apache 2.0 license:

- bsf-2.4.0.jar
- castor-1.3.2-core.jar
- castor-1.3.2-xml-schema.jar
- castor-1.3.2-xml.jar
- cglib-2.2.jar
- commonj-3.7.1.jar
- commons-beanutils-core-1.8.3.jar
- commons-cli-1.1.jar
- commons-codec-1.6.jar
- commons-collections-3.2.1.jar
- commons-fileupload-1.2.2.jar
- commons-httpclient-3.0.1.jar

- commons-io-1.3.2.jar

- commons-lang-2.2.jar

- log4j-1.2.17.jar

- serializer-2.7.1.jar

- stax2-2.1.jar

- stax2-api-3.0.4.jar

- wstx-asl-3.2.7.jar

- xalan-mod-2.7.1.jar

- xmlparserv2-11.1.1.3.0.jar

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic

mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Notice Concerning Usage of ASM

Copyright (c) 2000-2005 INRIA, France Telecom

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Notice Concerning Usage of Concurrent

All classes are released to the public domain and may be used for any purpose whatsoever without permission or acknowledgment. http://g.oswego.edu/dl/classes/EDU/oswego/cs/dl/util/concurrent/intro.html

Notice Concerning Usage of DOM4J

Copyright 2001-2010 (C) MetaStuff, Ltd. All Rights Reserved.

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain copyright statements and notices. Redistributions must also contain a copy of this document.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name "DOM4J" must not be used to endorse or promote products derived from this Software without prior written permission of MetaStuff, Ltd. For written permission, please contact dom4j-info@metastuff.com.

4. Products derived from this Software may not be called "DOM4J" nor may "DOM4J" appear in their names without prior written permission of MetaStuff, Ltd. DOM4J is a registered trademark of MetaStuff, Ltd.

 5. Due credit should be given to the DOM4J Project - http://dom4j.sourceforge.net

 THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS

``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT

NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND

FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Notice Concerning Usage of International Components for Unicode (ICU4J)

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2010 International Business Machines Corporation and others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

Notice Concerning Usage of Jaxen

Copyright 2003-2006 The Werken Company. All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

 * Neither the name of the Jaxen Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Notice Concerning Usage of JCIP Annotations

Attribution 2.5

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS LICENSE DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE INFORMATION PROVIDED, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM ITS USE.

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF

THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

1. Definitions

1. "Collective Work" means a work, such as a periodical issue, anthology or encyclopedia, in which the Work in its entirety in unmodified form, along with a number of other contributions, constituting separate and independent works in themselves, are assembled into a collective whole. A work that constitutes a Collective Work will not be considered a Derivative Work (as defined below) for the purposes of this License.

2. "Derivative Work" means a work based upon the Work or upon the Work and other pre-existing works, such as a translation, musical arrangement, dramatization, fictionalization, motion picture version, sound recording, art reproduction, abridgment, condensation, or any other form in which the Work may be recast, transformed, or adapted, except that a work that constitutes a Collective Work will not be considered a Derivative Work for the purpose of this License. For the avoidance of doubt, where the Work is a musical composition or sound recording, the synchronization of the Work in timed-relation with a moving image ("synching") will be considered a Derivative Work for the purpose of this License.

3. "Licensor" means the individual or entity that offers the Work under the terms of this License.

4. "Original Author" means the individual or entity who created the Work.

5. "Work" means the copyrightable work of authorship offered under the terms of this License.

6. "You" means an individual or entity exercising rights under this License who has not previously violated the terms of this License with respect to the Work, or who has received express permission from the Licensor to exercise rights under this License despite a previous violation.

2. Fair Use Rights. Nothing in this license is intended to reduce, limit, or restrict any rights arising from fair use, first sale or other limitations on the exclusive rights of the copyright owner under copyright law or other applicable laws.

3. License Grant. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in the Work as stated below:

1. to reproduce the Work, to incorporate the Work into one or more Collective Works, and to reproduce the Work as incorporated in the Collective Works;

2. to create and reproduce Derivative Works;

3. to distribute copies or phonorecords of, display publicly, perform publicly, and perform publicly by means of a digital audio transmission the Work including as incorporated in Collective Works;

4. to distribute copies or phonorecords of, display publicly, perform publicly, and perform publicly by means of a digital audio transmission Derivative Works.

5.

For the avoidance of doubt, where the work is a musical composition:

1. Performance Royalties Under Blanket Licenses. Licensor waives the exclusive right to collect, whether individually or via a performance rights society (e.g. ASCAP,

BMI, SESAC), royalties for the public performance or public digital performance (e.g. webcast) of the Work.

2. Mechanical Rights and Statutory Royalties. Licensor waives the exclusive right to collect, whether individually or via a music rights agency or designated agent (e.g. Harry Fox Agency), royalties for any phonorecord You create from the Work ("cover version") and distribute, subject to the compulsory license created by 17 USC Section 115 of the US Copyright Act (or the equivalent in other jurisdictions).

6. Webcasting Rights and Statutory Royalties. For the avoidance of doubt, where the Work is a sound recording, Licensor waives the exclusive right to collect, whether individually or via a performance-rights society (e.g. SoundExchange), royalties for the public digital performance (e.g. webcast) of the Work, subject to the compulsory license created by 17 USC Section 114 of the US Copyright Act (or the equivalent in other jurisdictions).

The above rights may be exercised in all media and formats whether now known or hereafter devised. The above rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. All rights not expressly granted by Licensor are hereby reserved.

4. Restrictions.The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

1. You may distribute, publicly display, publicly perform, or publicly digitally perform the Work only under the terms of this License, and You must include a copy of, or the Uniform Resource Identifier for, this License with every copy or phonorecord of the Work You distribute, publicly display, publicly perform, or publicly digitally perform. You may not offer or impose any terms on the Work that alter or restrict the terms of this License or the recipients' exercise of the rights granted hereunder. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties. You may not distribute, publicly display, publicly perform, or publicly digitally perform the Work with any technological measures that control access or use of the Work in a manner inconsistent with the terms of this License Agreement. The above applies to the Work as incorporated in a Collective Work, but this does not require the Collective Work apart from the Work itself to be made subject to the terms of this License. If You create a Collective Work, upon notice from any Licensor You must, to the extent practicable, remove from the Collective Work any credit as required by clause 4(b), as requested. If You create a Derivative Work, upon notice from any Licensor You must, to the extent practicable, remove from the Derivative Work any credit as required by clause 4(b), as requested.

2. If you distribute, publicly display, publicly perform, or publicly digitally perform the Work or any Derivative Works or Collective Works, You must keep intact all copyright notices for the Work and provide, reasonable to the medium or means You are utilizing: (i) the name of the Original Author (or pseudonym, if applicable) if supplied, and/or (ii) if the Original Author and/or Licensor designate another party or parties (e.g. a sponsor institute, publishing entity, journal) for attribution in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; the title of the Work if supplied; to the extent reasonably practicable, the Uniform Resource Identifier, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and in the case of a Derivative Work, a credit identifying the use of the Work in the Derivative Work (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). Such credit may be implemented in any reasonable manner; provided, however, that in the case of a Derivative Work or Collective Work, at a minimum such credit will appear where any other comparable authorship credit appears and in a manner at least as prominent as such other comparable authorship credit.

5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR

WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTIBILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. Termination

1. This License and the rights granted hereunder will terminate automatically upon any breach by You of the terms of this License. Individuals or entities who have received Derivative Works or Collective Works from You under this License, however, will not have their licenses terminated provided such individuals or entities remain in full compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this License.

2. Subject to the above terms and conditions, the license granted here is perpetual (for the duration of the applicable copyright in the Work). Notwithstanding the above, Licensor reserves the right to release the Work under different license terms or to stop distributing the Work at any time; provided, however that any such election will not serve to withdraw this License (or any other license that has been, or is required to be, granted under the terms of this License), and this License will continue in full force and effect unless terminated as stated above.

8. Miscellaneous

1. Each time You distribute or publicly digitally perform the Work or a Collective Work, the Licensor offers to the recipient a license to the Work on the same terms and conditions as the license granted to You under this License.

2. Each time You distribute or publicly digitally perform a Derivative Work, Licensor offers to the recipient a license to the original Work on the same terms and conditions as the license granted to You under this License.

3. If any provision of this License is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this License, and without further action by the parties to this agreement, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

4. No term or provision of this License shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party to be charged with such waiver or consent.

5. This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You. This License may not be modified without the mutual written agreement of the Licensor and You.

Creative Commons is not a party to this License, and makes no warranty whatsoever in connection with the Work. Creative Commons will not be liable to You or any party on any legal theory for any damages whatsoever, including without limitation any general, special, incidental or consequential damages arising in connection to this license. Notwithstanding the foregoing two (2) sentences, if Creative Commons has expressly identified itself as the Licensor hereunder, it shall have all rights and obligations of Licensor.

Except for the limited purpose of indicating to the public that the Work is licensed under the CCPL, neither party will use the trademark "Creative Commons" or any related trademark or logo of Creative Commons without the prior written consent of Creative Commons. Any permitted use will be in compliance with Creative Commons' then-current trademark usage guidelines, as may be published on its website or otherwise made available upon request from time to time.

Creative Commons may be contacted at http://creativecommons.org/.

Notice Concerning Usage of SLF4J

SLF4J source code and binaries are distributed under the MIT license.

Notice Concerning Usage of Staxmate

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Notice Concerning Usage of XMLPULL

XMLPULL API IS FREE

All of the XMLPULL API source code, compiled code, and documentation contained in this distribution *except* for tests (see separate LICENSE_TESTS.txt) are in the Public Domain.

XMLPULL API comes with NO WARRANTY or guarantee of fitness for any purpose.

Initial authors: Stefan Haustein and Aleksander Slominski

2001-12-12

Notice Concerning Usage of XMLUnit

Copyright (c) 2001-2007, Jeff Martin, Tim Bacon

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the xmlunit.sourceforge.net nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Notice Concerning Usage of XStream

Copyright (c) 2003-2006, Joe Walnes

Copyright (c) 2006-2007, XStream Committers

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of

conditions and the following disclaimer. Redistributions in binary form must reproduce

the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of XStream nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRE CT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Notice Concerning Usage of YUI

Copyright © 2012 Yahoo! Inc. All rights reserved.

Redistribution and use of this software in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Yahoo! Inc. nor the names of YUI's contributors may be used to endorse or promote products derived from this software without specific prior written permission of Yahoo! Inc.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.