Oracle Utilities Customer Care and Billing

Release Notes

Release 2.7.0.1

F12133-01

January 2019

ORACLE®

Oracle Utilities Customer Care and Billing Release Notes, Release 2.7.0.1

Contents

Preface

Welcome to the Oracle Utilities Customer Care and Billing Release Notes.

These release notes provide an overview of the new functionality, enhancements, known issues, and other important information in this release.

Audience

This document is intended for anyone installing or using Oracle Utilities Customer Care and Billing.

Related Documents

For more information, refer to these Oracle documents:

Installation Guides and Release Notes
- *Oracle Utilities Customer Care and Billing Release Notes*
- *Oracle Utilities Customer Care and Billing Quick Install Guide*
- *Oracle Utilities Customer Care and Billing Installation Guide*
- *Oracle Utilities Customer Care and Billing Database Administrator's Guide*
- *Oracle Utilities Customer Care and Billing Optional Products Installation Guide*
- *Oracle Utilities Customer Care and Billing Licensing Information User Manual*

Administrative and Business User Guides
- *Oracle Utilities Customer Care and Billing Administrative User Guide*
- *Oracle Utilities Customer Care and Billing Business User Guide*

Supplemental Documents
- *Oracle Utilities Customer Care and Billing Server Administration Guide*
- *Oracle Utilities Customer Care and Billing Security Guide*

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.

Acronyms

The following acronyms and terms are used in this document:

Acronym	Definition
CCB	Oracle Utilities Customer Care and Billing
OUAF	Oracle Utilities Application Framework

Chapter 1

Release Notes

This document provides general information about Oracle Utilities Customer Care and Billing V2.7.0.1, including:

- Release Overview
- Database Changes
- Enhancements in Oracle Utilities Customer Care and Billing
- Known Issues in This Release
- Deprecation Notices
- Supported Integrations
- Demo Data Information
- Oracle Utilities Application Framework v4.4.0.0.0 Release Notes

Refer to the *Quick Install Guide* and *Installation Guide* for information regarding supported platforms and installation.

Release Overview

This section provides an overview of this Oracle Utilities Customer Care and Billing release. The release includes the following components:

- Oracle Utilities Customer Care and Billing V2.7.0.1
- Oracle Utilities Application Framework V4.4.0.0.0

Please visit My Oracle Support (http://support.oracle.com) and Oracle Software Delivery Cloud (http://edelivery.oracle.com/) for the most recent service packs and patches for Oracle Utilities Customer Care and Billing V2.7.0.1 to ensure you have the most current version of this product.

Supported Platforms

Refer to the **Supported Platforms** section in the *Oracle Utilities Customer Care and Billing Installation Guide* included in this release for an updated list of supported platforms.

Supported Upgrades

This version of Oracle Utilities Customer Care and Billing supports the following "one-step" upgrade paths:

- From Oracle Utilities Customer Care and Billing V2.7.0.0.0 to V2.7.0.1.0
- From Oracle Utilities Customer Care and Billing V2.6.0.1.0 to V2.7.0.1.0
- From Oracle Utilities Customer Care and Billing V2.6.0.0.0 to V2.7.0.1.0
- From Oracle Utilities Customer Care and Billing V2.5.0.2.0 to V2.7.0.1.0
- From Oracle Utilities Customer Care and Billing V2.4.0.3.0 to V2.7.0.1.0
- From Oracle Utilities Customer Care and Billing V2.3.1.10 to V2.7.0.010

Refer to the *Oracle Utilities Customer Care and Billing Database Administrator's Guide* for further details on the above and also other upgrade paths from other versions of Oracle Utilities Customer Care and Billing.

Database Changes

The database enhancements for version 2.7.0.1 are fully documented in *Oracle Utilities Customer Care and Billing Database Administrator's Guide*.

This section highlights some specific information to note related to database changes.

Upgrades to Oracle Utilities Customer Care and Billing Database

The Oracle Utilities Customer Care and Billing upgrade process involves changes in the database (new tables, new columns, new indexes, column format changes etc). The changes to the database are documented in the *Oracle Utilities Customer Care and Billing Release Notes* and *Oracle Utilities Customer Care and Billing Database Administrator's Guide* for each release.

The table below lists previous releases of Oracle Utilities Customer Care and Billing along with their corresponding patch number in Oracle Software Delivery Cloud. Use the patch number to download documentation for an older release of Oracle Utilities Customer Care and Billing. This information is useful to customers who wish to understand the extent of database changes between different releases of the product.

Oracle Utilities Customer Care and Billing Version	Oracle Software Delivery Cloud Patch Number
2.3.1	20100078
2.4.0.1	16978448
2.4.0.2	17589574
2.4.0.3	19075773
2.5.0.1	19407590
2.5.0.2	23629545
2.6.0.0	25942322
2.6.0.1	27426326
2.7.0.0	28566281

Enhancements in Oracle Utilities Customer Care and Billing

This section describes new and enhanced features in this release of Oracle Utilities Customer Care and Billing.

The release includes:

- Updated User Interface
- Enhanced Duplicate Person Control
- Configurable Date Entry Option for Order and Start/Stop Date
- Person Name Format Standardization Override
- Enabling Additional Configuration of Address Fields
- Payment Arrangement Requests
- Payment Arrangements Control Central Portal
- Enhanced Integration Support with an External Field Service Management System
- Enhanced Support for Third Party Payment Processing

Updated User Interface

The application's user interface has been updated with a new look and feel that features new colors, fonts, icons, and controls. See New Style Sheets in the Oracle Utilities Application Framework v4.4.0.0.0 Release Notes section for further information.

Enhanced Duplicate Person Control

Duplicate person validation has been moved into an algorithm. This has been implemented using a business object validation algorithm on a new person business object. The person maintenance object has been updated to include a determine business object algorithm. For upgrading customers, if your implementation is already using a determine business object algorithm on the person maintenance object, you will need to merge your custom functionality with the base logic. It is recommended that your algorithm have a higher sequence than the delivered algorithm and that your business object includes the validation algorithm delivered on the supplied business object.

The delivered validation algorithm has an option to present a warning, which is the existing behavior, or an error when a duplicate is encountered. As delivered, the algorithm will present a warning.

Identifier type has been enhanced to specify which identifier types should be validated for duplicates. For upgrading customers, existing values have been set to validate duplicates.

Configurable Date Entry Option for Order and Start/Stop Date

In a previous release, users could populate the following date related fields on the Start / Stop and Order transactions either manually or using the date picker:

- Start / Stop transaction
  - Start Date
  - Stop Date
- Order transaction
  - Start Date

In this release, a new **Disable Manual Date Entry Feature** configuration option on the **Customer Information Options** feature type enables an implementation to specify if users are required to only use the date picker to enter dates into the above fields.

Person Name Format Standardization Override

In a previous release, the **Person Name Validation** system event plug-in spot, on Installation Options – Framework, was renamed to Person Name Format. The plug-in spot was also enhanced to enable implementations to specify more than one algorithm for validating and formatting person names. In addition to this, the existing algorithm type, NMFM-VALFMT (Person Name Format), was converted and enhanced to groovy scripting with additional capabilities.

In this release, a new optional **Do Not Format** checkbox has been included against **Person Names** on the Person transaction and Order transaction. The setting of this checkbox may be used by algorithms plugged in the **Installation - Person Name Format** plug-in spot to determine if formatting of a person's name should be bypassed or not. The checkbox is enabled by a new **Enable Person Name Format Bypass** feature configuration option on the **Customer Information Options** Feature Type.

In addition to the above, the existing algorithm type, NMFM-VALFMT (Person Name Format), has been further enhanced to take into account the new Do Not Format checkbox setting. It skips the formatting logic, not the validation logic, for a person's name and sets an output switch that tells the system to skip calling subsequent person name format algorithms configured in the Installation - Person Name Format plug-in spot.

Enabling Additional Configuration of Address Fields

In a previous release of Oracle Utilities Application Framework, the **Country** administration menu item was enhanced to enable implementations to use new drop-down values of Optional and Not Allowed when indicating if a particular address component was to be enabled instead of checkboxes that were previously used.

In this release, implementations can configure if an enabled address component is Optional, Not Allowed, or Required. The system pages that store addresses have been updated to enforce the configuration setting.

Payment Arrangement Requests

A payment arrangement is an agreement with a customer to payoff severely overdue debt in installments. Bills sent to customers with payment arrangements contain charges for both their current services and their payment arrangement installment amount.

In this release, a new Payment Arrangement Request feature has been introduced and may be used by implementations to manage the process of starting a payment arrangement. It is a step-by-step process that can include:

- Checking an account's eligibility for a payment arrangement.
- Capturing the terms of a payment arrangement such as the included service agreements, down payment amount, number of installments, and installment amount.
- Evaluating whether or not a payment arrangement request requires approval.
- User approval / rejection of a payment arrangement request.
- Monitoring for a down payment, if applicable.
- Creating the payment arrangement service agreement.

Refer to the Business User Guide for further information.

Payment Arrangements Control Central Portal

The **Pay Plan Tree Control Central** portal has been updated. It has been renamed to **Payment Agreements** and contains a new **Payment Arrangement Request** zone and the existing Pay Plan tree zone.

Enhanced Integration Support with an External Field Service Management System

In a previous release, Oracle Utilities Customer Care and Billing supported various integration process flows with an external field service management system. For outbound message flows, the Notification Download Staging capability was used.

In this release, a number of enhancements have been made to support integration with an external field service management system via Oracle Integration Cloud (e.g., Oracle Field Service Cloud). In particular, outbound message flows from Oracle Utilities Customer Care and Billing have been enhanced to utilize the Outbound Message capability rather than the previously utilized Notification Download Staging capability. In particular, these relate to the field activity synchronization and appointment booking outbound message flows.

Enhanced Support for Third Party Payment Processing

In a previous release, capabilities for supporting third party payment processing were provided.

A third party payment processing system is a service provider that can handle all aspects of electronic payments for a utility. When this service provider is integrated with Oracle Utilities Customer Care and Billing, every payment made through channels such as web self-service or integrated voice response (IVR) is accepted and processed within the

service provider's fully hosted payment acceptance environment. In this arrangement, payment data (credit card number, bank account number, etc) is stored and processed outside of the utility's network.

In this release, the C1-ThirdPartyVerifyAccount inbound web service for supporting account verification has been enhanced to return an account's active / effective auto pay information, if it exists, to the third party payment processing system. This will help in assisting to prevent certain error conditions such as attempting to add an auto pay record that overlaps an existing auto pay record.

Known Issues in This Release

This section lists known issues and bugs not fixed in this release of Oracle Utilities Customer Care and Billing and Oracle Utilities Application Framework.

- Known Issues in Oracle Utilities Customer Care and Billing
- Bug Fixes Not Included in This Release
- Known Issues in Oracle Utilities Application Framework

Known Issues in Oracle Utilities Customer Care and Billing

Following are the known issues in Oracle Utilities Customer Care and Billing at the time of this release:

Bug #	Description
29212825	Message Category 11128 / Message 11141 has to be replaced by message 11041. It is used in the Pay Arrangement Process Flow cancellation confirmation.
29213214	Table Pay Arrangement Request Type is missing a constraint on CIS Division field.

Bug Fixes Not Included in This Release

This section lists bug fixes released for previous versions of the product that have not been included in this release. These fixes are planned for a future date for the current release using the bug numbers listed in the table below:

Original Bug	Original Version	Description	2.7.0.1.0 Post-Release
28601197	2.4.0.3.0	On Start Stop Confirmation popup, the 'Allow Estimates' always is set to the setup in SA Type	29129987
28920187	2.6.0.1.0	Search Service Point from Main Menu does not clear Global Context SP ID	29122044
27124500	2.4.0.3.0	Payment Arrangement SA collection is limited to 10	28725531

Original Bug	Original Version	Description	2.7.0.1.0 Post-Release
25595408	2.4.0.3.0	Held Field Activities are not processed on Start/Stop Page	29213533
28788688	2.6.0.1.0	Tender Control not balancing even after over/ under is fixed by adjusting Ending Balance	29195538
28476977	2.5.0.2.0	Unable to complete a Start Request using IWS WXProcessStartStopRequest, due to duplicate error	28540313
28006231	2.5.0.2.0	Batch C1-PRGSY - the BO Status is not properly validated	29135624

Known Issues in Oracle Utilities Application Framework

The following are the known issues in this version of Oracle Utilities Application Framework which may affect Oracle Utilities Customer Care and Billing at the time of release:

- The display of the characteristic value on the **To Do Management** portal has inconsistent behavior for Foreign Key Value characteristics that do not have a search zone. Characteristic values should be displayed like Adhoc Value characteristics. When searching by this characteristic alone, the characteristic value displays properly.

- On the **To Do Management** portal, when saving a search that includes any characteristic value filters, the characteristic value is not retained when opening the saved search.

- The Application Viewer is not supported on the Chrome browser.

- Cube Type access should be controlled by the application service associated with the Cube type's "sourcing data" zone. Currently, users that have access to Cube View will see all Cube Types.

- When navigating to a portal with data in context, the search does not execute if the target portal is configured with a query zone.

- Firefox Error dialogs do not open large enough for you to view full the error message.

- Miscellaneous user interface issues, including Label/Data alignment, Help icon positioning, Dates in grids are shifted one column to the left, missing frame around Characteristics grids (Bug #29198401).

Deprecation Notices

This section describes items that are deprecated in this release or planned for deprecation in a future release.

- Deprecated Functionality in This Release

Deprecated Functionality in This Release

The platforms and functionality listed below are not supported by this version of Oracle Utilities Customer Care and Billing:

Business Object C1-LanguageCodePhysicalBO

The C1-LanguageCodePhysicalBO business object has been deprecated. It is redundant to F1-LanguagePhysicalBO. Any use of C1-LanguageCodePhysicalBO can be updated to use F1-LanguagePhysicalBO instead. It is recommended to review any custom migration requests or plans that might have referenced C1-LanguageCodePhysicalBO.

Letter Extract Objects

Some objects associated with a planned letter extract enhancement were included in a previous release. These objects were not used and have been removed from the application.

Supported Integrations

The following integrations are supported in this version of Oracle Utilities Customer Care and Billing:

Oracle Application Integrations

- CCB V2.7.0.1 to E-Business Suite (Revenue Accounting) V12.2.2+
- CCB V2.7.0.1 to PeopleSoft (Financials) V9.2
- CCB V2.7.0.1 to JD Edwards (Enterprise One) V9.1

Oracle Utilities Product Integrations

- CCB V2.7.0.1/Oracle Utilities Analytics V2.6.0
- CCB V2.7.0.1 to Oracle Utilities Meter Data Management V2.1.0.3+, V2.2.0.x
- CCB V2.7.0.1 to Oracle Utilities Network Management System V2.3.0.x or V1.12.0.3+
- Oracle Integration Pack for Oracle Utilities Field Work V12.2
  - Oracle Utilities Mobile Workforce Management V2.3.0.x or V2.2.0.2+
  - Oracle Utilities Work and Asset Management V1.9.1.x, V2.1.1x or V2.2.0.x

Additional Integrations

- Oracle Documaker V12.5
- Oracle Dataraker V3.8.0.2
- BI Publisher V12c
- Oracle Utilities Customer Self Service V2.2.0.0

Demo Data Information

The application delivers a demo database based on the application versions provided with the release, including Oracle Utilities Application Framework. Demo data provides sample configuration and data for key application features.

Demo data is included in the package and includes its own installation instructions. Please refer to the *Oracle Utilities Customer Care and Billing Installation Guide* for more information or contact Oracle Support.

Oracle Utilities Application Framework v4.4.0.0.0 Release Notes

This section describes enhancements, system data details and deprecation notices in Oracle Utilities Application Framework v4.4.0.0.0 including:

- System Wide Enhancements
- To Do Enhancements
- External Messages Enhancements
- Miscellaneous Enhancements
- Oracle Utilities Application Framework Deprecation Notices

Note: The **Steps To Enable** sections provide guidelines for enabling each feature, where applicable.

System Wide Enhancements

New Style Sheets

The system's style sheet has been updated to incorporate a more modern color palette, spacing and icons.

Besides the general changes to colors and spacing, this change also includes the following more specific changes:

- The **Search Menu** widget, used to search for a page in the system that is found on a menu has been moved to be to the right of the Admin menu icon (for left to right languages).
- The **Expand** and **Collapse** icons for zones and sections have been stylized and moved to the right side of the zone (for left to right languages)
- Various icons throughout the system have changes, including zone level icons.
- In some cases, the context menu has been moved to the right of the information string instead of the left.
- Labels on maintenance pages and query pages are in ALL CAPS instead of title case.

Steps To Enable

No steps are required to enable this feature.

Marking a Filter Value in Error

In this release, the system has enhanced error handling for fixed page searches and zone based queries to correctly mark the field that has an error.

- For fixed page searches, if the field name of the field to mark is populated in the server message, the system will mark that field. If no field name is provided, the system will mark the first filter value in that section.

- For zones that have filters and a filter validation script, the system will mark the filter field in error based on the element referenced in the 'terminate with error' statement in the validation script.

Steps To Enable

No steps are required to enable this feature.

Notes

Customers should review custom filter validation scripts. If the field highlighted in an error is not the first field in the filter area, consider adding the schema element representing that filter value to the 'terminate with error' statement.

To Do Enhancements

This section provides information about enhancements to To Do Entry functionality.

To Do Pre-creation Algorithm on To Do Type

The system already supports a To Do pre-creation plug-in spot on Installation Options. Plug-ins in this plug-in spot are called for every To Do type in the system. In this release an analogous plug-in spot has been added on To Do Type. This allows for implementations to include To Do pre-creation logic that is specific for a To Do type.

The following describes more information about this feature:

- Algorithms for the new plug-in spot may be used to add or update characteristics for the new To Do entry. Implementations can use this capability to link specific related information for every To Do entry. This extra information can help users manage their To Dos using the new To Do Management portal. In addition, this captured information can be used in the Calculate Priority algorithm to automatically adjust the priority for a new To Do Entry.

- Algorithms for the new plug-in spot may be used to indicate that the To Do Entry should be suppressed. This allows for more granular conditions to be checked prior to see if the To Do entry is not needed / applicable.

- If at least one To Do pre-creation algorithm is plugged in on the To Do Type, only those algorithms are called. The Installation Option algorithms will not be called. However, the product has provided a To Do Type pre-creation algorithm that executes the installation option To Do pre-creation algorithms. This allows for implementations to control if the installation algorithms are also relevant and if so, when they should be executed.

Steps To Enable

Implementations must review whether any of their To Do Types could benefit from specific pre-creation algorithms, create the appropriate algorithms and plug them into the appropriate To Do Types.

It is recommended to review all your To Do entries to see if you make decisions about prioritization or assignment based on related information that may not be readily available on the To Do Entry (and currently your users need to drill in and perform extra steps to find this information). Consider providing an algorithm that creates a characteristic for any such information. The new To Do Management Portal supports filtering by and displaying characteristics linked to a To Do Entry. If information that

helps you manage your To Dos is visible in this one central location, it will allow your users to be more efficient. A note of caution that linking too many characteristics to each To Do can result in a decrease in system performance, which would then reduce your users' efficiency. Carefully consider each characteristic and balance the cost / benefit of each.

Implementations should also review the current Installation level To Do pre-creation algorithms and determine if they are overridden by the To Do Type level algorithms or if they should also be executed. To ensure the installation algorithms are executed, the base provided To Do Type - To Do pre-creation algorithm should be plugged in.

Implementation Tips and Considerations
Specific products may provide base algorithms for To Do Type - To Do pre-creation that may be relevant for your business practices. Be sure to review the base delivered algorithms to confirm what is provided.

To Do Management Portal
In this release a new portal and query zone have been provided to help assignment and management of non-completed To Do Entries. This new To Do Management portal provides many options that improve on the functionality of the existing pages for assigning and managing non-completed To Do entries, including To Do Search, To Do List and To Do Supervisor Assignment.

The following points highlight the features of the new To Do Management portal:

- It is provided for both supervisors and non-supervisor To Do users. As with existing To Do pages, a supervisor is determined via security access.

- The query zone requires a To Do Type. Only the To Do Types appropriate for the current user are shown.

- Many filters have been provided to help users to narrow down the list of To Do entries to view based on specific requirements. Besides common filters like the assigned user or role and the priority, the zone also provides the ability to filter by a Sort Key value, by the Message linked to the To Do and by up to five Characteristic Type and Value pairs.

- Instead of provide a date range for the filter, the zone provides a 'days' range. This is because more often users are looking for To Dos that are a specific age or in a range of ages.

- The Characteristic Type filter drop-down first checks to see if the To Do Type configures To Do Characteristics and if so, it only shows those characteristic types. If the To Do type does not have such configuration, the drop-down shows all valid characteristic types for the To Do Entry characteristic entity.

- The zone does not use pagination. It returns to 400 To Do entries using the input filter criteria.

- The zone supports column configuration, allowing each user to choose the columns displayed and the order. Using this technique, users can use the Save Search functionality to save different searches for different To Do Types and different search requirements.

- The search results includes the following:

- Display of the information string of the related object (drill key) of the To Do entry.

- Ability to put the list of results into the Worklist zone.

- Besides the creation date and time, there is also a column for the age of the To Do entry ('days old'), for users that prefer seeing the information in that format.

- Separate columns for the first 5 sort keys (with sort key type / value listed) allowing the user to sort by any of the values.

- A single column showing all the characteristics for the To Do listing each type and value.

- The count of related To Do entries. As with other pages, clicking the link brings the user to the To Do Search

- If comments or a user log exists, the standard icon is visible but clicking the icon displays the information. This is different from other existing To Do query pages, which take the user to the To Do entry maintenance page to view the information.

- Several mass actions are provided. For one or more selected To Do entries, a user can assign, un-assign, complete, update the priority or add a user log entry. Note that the new portal follows existing business rules. For example, if a To Do is assigned to a user, only that user can update its priority.

An upgrade script has been provided that automatically adds security access to the new F1TODOMG (To Do Management) Application Service for any user group that has access to the To Do Search application service (CILQTDQP) for the same access modes. The access modes for the new application service match those in the To Do Search's application service.

- Assign

- Supervisor Assign (Only users with this access mode will be able to search for To Do entries assigned to someone else and will be able to assign To Do entries to someone else).

- Change

- Complete

- Inquire

- Reopen To Do (The 'Unassign' action is controlled by this access mode).

Steps To Enable
This feature is automatically enabled, but the following sections provide useful information for using the To Do Management portal.

Implementation Tips and Considerations
Because characteristics are both filter values and search results values, the product recommends that edge products review related key information that may help your users prioritize or assign To Do entries and use the new To Do pre-creation algorithm plug-in spot on To Do Type to capture relevant key information as characteristics. A note of caution that linking too many characteristics to each To Do can result in a decrease in system performance, which would then reduce your users' efficiency. Carefully consider each characteristic and balance the cost / benefit of each.

In addition, your implementation should consider configuring the valid To Do characteristic types that are relevant for To Do entries of a given To Do Type on the To Do Type > To Do Characteristics tab. This will ensure that the To Do Management's characteristic type filter drop-down only shows the characteristic types relevant for the chosen To Do type.

Role-related Information
It is recommended that your security administrators review the security access for the F1TODOMG application service to ensure that the upgrade script provided appropriate access to the appropriate user groups.

Expand Ability to Add Logs and Enter Comments on To Do
In previous releases, if a user had security for the Complete access mode on the Current To Do dashboard zone, both the Complete and Complete All (to complete related To Do entries also) would be available. In this release an additional access mode for Complete All has been introduced, allowing for implementations to separately secure which users are allowed to complete a group of related To Do entries from the users allowed to complete a single To Do entry being worked on.

Steps To Enable
An upgrade script is provided to give all user groups security for the new Complete All access mode (COA) for the FWLCTDEP (Current To Do Zone) application service if they currently have security for the Complete access mode. Security administrators who would like to restrict access to the new Complete All access mode should review their user groups and update the security accordingly.

External Messages Enhancements
The following sections highlight enhancements to the external message functionality.

Support URI Substitution for WSDL Link for SOAP Services
In this release the system supports a new URI substitution variable for the WSDL URL: F1_BASE_IWS_URI. This will be configured for cloud implementations. For on-premises installation, no configuration is necessary.

Steps To Enable
No steps are required to enable this feature.

Support URI Substitution for External Links to the Application
In this release the system supports a new URI substitution variable for defining the base URI for launching the system from an external link: F1_BASE_WEB_URI. This will be configured for cloud implementations. For on-premises installation, no configuration is necessary. The F1-RetrieveEnvironmentURL (Retrieve Environment URL) business service has been updated accordingly.

Steps To Enable
No steps are required to enable this feature.

Miscellaneous Enhancements

Menu Name Visible in Search Menu Results in Debug Mode
When logging into the system in Debug mode, the name of the parent menu where a menu item is found is displayed in parentheses when using the Search Menu function.

Steps To Enable
No steps are required to enable this feature.

Oracle Utilities Application Framework Deprecation Notices

This section provides information on functionality that has been removed, is no longer supported by Oracle Utilities Application Framework v4.4.0.0.0, or is planned for removal.

Items Planned for Future Deprecation
This is a list of functionality / system data that Oracle plans to deprecate in a future release.

Support for Master / Subordinate Services for Web Services Catalog
The Service Catalog Configuration (master configuration) supports defining subordinate servers. This functionality is no longer applicable for the Oracle Integration Cloud and will be removed in a future release.

Miscellaneous System Data
- Environment Reference. This administrative maintenance object was related to ConfigLab and Archiving, which are no longer supported. In a future release, the following will be removed:

  - Migration Plan F1-EnvironmentRef. Note that no base migration request references this plan. Implementations should ensure that no custom migration request references this plan.

  - F1-EnvironmentRefPhysicalBO business object

  - ENV REF maintenance object

- The To Do Type F1-SYNRQ (Sync Request Error) is not in use and will be deleted in a future release. Errors for the Sync Request Monitor (that also has the name F1-SYNRQ) are reported using the To Do Type F1-SYNTD (Sync Request Monitor Errors).

- The following algorithm types and algorithms provided for the current LDAP import functionality do not include any logic. They will be removed in a future release.

  - Algorithm Type / Algorithm F1-LDAPIMPRT

  - Algorithm Type / Algorithm F1-LDAPPREPR

- The lookup value CHAR_ENTITY_FLG / F1SE (Characteristic Entity / Sync Request Inbound Exception) is not in use and will be removed in a future release.

- The database table F1_IWS_SVC_OPER_L will be removed in a future release.

- The zone F1-MGRREQDSP will be removed in a future release.

Support for HTTP Proxy Functionality

HTTP Proxies are a common technique for firewalling outbound communications within and outside an enterprise.

In past releases, the configuration of a HTTP Proxy was done on individual senders and other connections. This increased the amount of duplication across the implementations with multiple places to update proxy settings. In this release, these settings have been delegated to the JVM level using proxy features at the JVM level rather than individual connections. This will reduce the amount of configuration and maintenance of proxy functionality by allowing implementations to use the inbuilt proxy support from Java directly. This will require additional command line settings to be configured on the online WebLogic Servers and command lines within our configuration for batch.

For more information about the settings, refer to the Java Networking and Proxy documentation

CMA Migration Requests

The migration requests F1-FrameworkAdmin (Framework Admin) and F1-SchemaAdmin (Schema Admin) are no longer recommended and are not going to be updated with new administration / control tables in future releases. The product may deprecate them in a future release.

CMA Import Algorithm

In a future release, the CMA Import algorithm plug-in spot will be deprecated. As an alternative, review any existing algorithms and create appropriate Pre-Compare algorithms.

Business Object Read in F1-MainProc When Pre-Processing Exists

In the original implementation of configuration tools, if a pre-processing script was linked to the business object via options, the main framework maintenance BPA (F1-MainProc) would not perform a Read of the business object (leaving it to the responsibility of the pre-processing script).

In a subsequent release, to solve a UI Hints issue related to child business objects, a business object Read was included in F1-MainProc even if a pre-processing script existed. This solution introduced a problem only visible for specific scenarios and a different fix has been introduced. In the meantime, the business object Read is no longer necessary in F1-MainProc. Since there are many pre-processing scripts that are properly performing the Read of the business object, ideally the business object Read should be removed from F1-MainProc so that multiple reads are not performed.

However, there may have been pre-processing scripts introduced after the business object Read was included in F1-MainProc that were coded to not perform a business object read in the pre-processing script. Due to this situation, the business object Read is still performed as part of the processing of F1-MainProc.

The product plans to remove the business object Read from F1-MainProc logic when a pre-processing script exists. Review your custom pre-processing scripts that are linked to your business object options to ensure that it properly performs a Read of your business object.