

Oracle Utilities Rate Cloud Service

Release Notes

Release 20A

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Oracle Utilities Rate Cloud Service Release 20A Release Notes

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Chapter 1

Release Notes

These release notes contain the following sections:

- [About This Release](#)
- [Oracle Utilities Cloud Service Foundation v20A Release Notes](#)
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- [Oracle Utilities Application Framework v4.4.0.2.1 \(20A\) Release Notes](#)

About This Release

This section contains general information about Oracle Utilities Rate Cloud Service Release 20A.

Oracle Utilities Rate Cloud Service includes the following Oracle Utilities applications:

- Oracle Utilities Customer To Meter v2.7.0.3.1
- Oracle Utilities Cloud Service Foundation v20A
- Oracle Utilities Testing Accelerator
- Oracle BI Publisher

Oracle Utilities Cloud Service Foundation v20A Release Notes

This section lists enhancements in the 20A release of Oracle Utilities Cloud Service Foundation, including:

- [Batch Queue Portal](#)
- [Batch Alerts](#)

Batch Queue Portal

The **Batch Queue** portal provides visibility on batch jobs currently in the queue or running on existing thread pools. You can review the details of each batch job by drilling down in to the detailed view of batch threads, corresponding statuses, and record processing information. You can also filter batch jobs by various criteria.

Steps To Enable

You don't need to do anything to enable this feature.

Batch Alerts

Several batch controls and batch job streams have new level-of-service algorithms that determine and monitor the overall status of running batch jobs and batch job streams. The batch job stream level supports the following level of services:

- Batch Job Stream has not started within 'X' minutes
- Batch Job Stream has failed

Steps To Enable

To receive alerts on any active batch job streams:

- Add the appropriate level of service algorithm to the batch job stream definition.
- Specify the batch job stream health check algorithm (F1-HCBLOS) for the "Health Check" System Event on the Algorithms tab in the **Installation Options - Framework** portal.
- Configure the sample alert probe with application information and email addresses to where alerts will be sent.

Oracle Utilities Testing Accelerator v20A Release Notes

This section describes enhancements in Oracle Utilities Testing Accelerator, including:

- [Subroutine Flow](#)
- [Flow Test Data Sets](#)
- [Execution Summary Report](#)
- [Custom Groovy Function Library](#)
- [Flow, Flow Set Execution, and Analytics REST APIs](#)
- [Flow Annotations](#)

Subroutine Flow

The Subroutine Flow feature reduces the redundancies created by adding the same set of components in multiple flows to perform similar steps. You reduce the redundancies by creating a subroutine flow (test flow) that includes only one instance of the components set and calls the subroutine flow from other Oracle Utilities Testing Accelerator flows to perform the test steps of the subroutine flow.

In addition, you can transfer test data between subroutine flows and the calling flow. For example, in Oracle Utilities Customer Cloud Service test automation flows, many test cases expect a “V” setup to be available before verifying business test cases. You can create a “V” setup flow and call this as a subroutine flow from other test flows.

Steps To Enable

You don't need to do anything to enable this feature.

Tips and Considerations

Subroutine flows use only the default flow test data set for execution.

To use a test flow as a subroutine, you need to define the calling flow interface after you create the subroutine flow. The calling flow interface contains the test data definitions that you need to pass as inputs to the subroutine flow and the data that the subroutine flow outputs. The flow calling the subroutine flow should pass the required input data and handle the output data from the subroutine.

To add a subroutine flow to a larger flow definition, right click any component of the larger flow and select the option to add as flow as subroutine.

Key Resources

Refer to the Flow Subroutines & Test Data Sets whitepaper on My Oracle Support using Doc ID: 2632033.1.

Flow Test Data Sets

The Flow Test Data Sets feature allows you to define multiple test data sets in a single test flow, and execute the test flow using different test data inputs. With this feature, you do not need to create multiple Oracle Utilities Test Accelerator flows to test the same

business process with different data sets. For example, you can test the account creation process for a residential premise and commercial premise with the same flow but with varying test data in Oracle Utilities Customer Cloud Service.

The flow test data sets span across the entire length of the flow. For example, all the components in the flow have test data for each flow test data set. The flows in Oracle Utilities Test Accelerator have the test data set to default and you can add flow test data sets by copying an existing test data or creating a new one.

Steps To Enable

You don't need to do anything to enable this feature.

Key Resources

Refer to the Flow Subroutines & Test Data Sets whitepaper on My Oracle Support using Doc ID: 2632033.1.

Iterative Flow Execution

The Iterative Flow Execution feature allows you to simulate test data or test business processes with different test data sets by repeatedly executing a flow within a predetermined number of iterations and using specified flow test data sets.

Steps To Enable

You don't need to do anything to enable this feature.

Tips and Considerations

Iterative Execution is available for browser-based execution of Oracle Utilities Testing Accelerator flows. You can find the iterative execution option in the Execute Flow window and configure the following settings:

- **Execution Type:** Set to Iterative to enable the iterative execution mode.
- **Number of Iterations:** Number of times to execute the same flow.
- **Flow Test Data Set:** Flow test data sets to use for the flow execution.

Key Resources

Refer to the Flow Subroutines & Test Data Sets whitepaper on My Oracle Support using Doc ID: 2632033.1.

Execution Summary Report

The Execution Summary Report allows you to determine whether a flow or flow set executed from the Oracle Utilities Testing Accelerator workbench has passed or failed. The summary report provides you with a holistic view of the flow execution run and an option to send the report via email. In addition, the summary report can provide you with drill-down details of the flow execution steps that include triggered validation on each flow component, test data used, and pass or fail status of a test step.

Steps To Enable

You don't need to do anything to enable this feature.

Key Resources

Refer to the Flow Subroutines & Test Data Sets whitepaper on My Oracle Support using Doc ID: 2632033.1.

Custom Groovy Function Library

The Custom Groovy Function Library allows you to develop custom flow definition functions that supplement the base-delivered test data randomizing and validation functions, and use these custom functions with components or flow definitions.

With the library, you can create Groovy scripts and upload these to the Oracle Utilities Testing Accelerator workbench. You can also create a new library for a specific component type.

Steps To Enable

You don't need to do anything to enable this feature.

Tips and Considerations

You can use whitelisted-imports and Oracle Utilities Application Framework-approved JAR files from the Groovy library.

To upload Groovy scripts into the Oracle Utility Testing Accelerator workbench, navigate to the **Administration** tab menu and select the Libraries option.

- You can plug in a library to specific type of components by clicking **Create Library**, providing a library name, and entering the appropriate type of component details.
- You can add function definitions to a library by clicking **+Add** and specifying the function name (Function), number of input parameters (Parameter Count), parameter definitions (@param1, @param2, and so on), comments, and description.
- You can create the library using an IDE-like Eclipse or online groovy console but include the function in the file with the same name as the library. For example, to create a function that generates a random social security number as test data for creating a person:
 - The library name is **UTATEST** and the name of the function is **generateSSN**. The library takes an input prefix and returns a random set of digits prefixed with the input value.
 - Create the **UTATEST.groovy** that contains the function definition. The contents of the file are as follows:

```
package uta.oracle;
import java.util.ArrayList;
import java.util.List;
import
com.oracle.utilities.core.plugin.FunctionalTestScript;
import com.oracle.utilities.core.lib.WSCOMMONLIB;
```

```

import java.util.logging.Logger;import
com.oracle.utilities.core.lib.OUTSPCORELIB;
public class UTATEST {
private static final Logger _logger =
Logger.getLogger(UTATEST.class.getName());
public String generateSSN(String prefix) throws Exception{
    Random random = new Random();
    int x = random.nextInt(900) + 100;
    int y = random.nextInt(90) + 10;
    int z=random.nextInt(9000) + 1000;
    String zz = x+"-"+y+"-"+z;
    return prefix+zz;
}}

```

- You can upload the .groovy file by clicking Upload Library File.
- After you upload the .groovy file, you can plug in the function into any custom component or into the pre-validations and post-validations section of the flow test data definition.

Flow, Flow Set Execution, an Analytics REST APIs

The Flow Execution REST API enables Oracle Utilities Testing Accelerator to support triggering of flows via REST APIs to enable the integration of flow execution from third-party managers.

The API takes the flow or flow set name and configuration as input parameters, triggers the execution of the flow, and returns the execution identifier for that instance. A flow execution result polling API allows you to poll the service for completion of the flow execution by using the execution identifier. The results REST API takes the execution identifier as the input parameter and returns the status of the execution as one of the statuses describing the execution to be in progress, pass, or fail.

Additionally, Oracle Utilities Testing Accelerator provides the following analytics services:

- **Flow Execution Analytics:** This service provides analytics for the flows executed in Oracle Utilities Testing Accelerator by a specific user for a given period.
- **Flow Set Execution Analytics:** This service provides analytics for the flow sets executed in Oracle Utilities Testing Accelerator by a specific user for a given period.

Steps To Enable

You don't need to do anything to enable this feature.

Tips and Considerations

All REST services require an authentication token parameter. You can obtain the token by submitting a request to Oracle Utilities Testing Accelerator using the application URL, port, username, and password.

Key Resources

Refer to *Oracle Utilities Testing Accelerator User Guide* for more information.

Flow Annotations

You can add annotations for each component step to describe the purpose of the each step in an Oracle Utilities Testing Accelerator test flow.

Steps To Enable

You don't need to do anything to enable this feature.

Tips and Considerations

You can add an annotation by right clicking a component in the flow definition and entering the description. The description replaces the default display of the component name in the flow step.

Oracle Utilities Application Framework v4.4.0.2.1 (20A) Release Notes

Note: Not all of the enhancements described in this section are applicable to Rate Cloud Service.

This section describes enhancements, system data details and deprecation notices in Oracle Utilities Application Framework v4.4.0.2.1 (20A) including:

- [Product Usability](#)
- [To Do Processing](#)
- [Security Features](#)
- [Batch Processing](#)
- [Integration](#)
- [Data Export](#)
- [Analytics](#)
- [Miscellaneous Features](#)
- [Online Help Reorganization](#)
- [Oracle Utilities Application Framework Deprecation Notices](#)

Note: The **Steps To Enable**, **Tips and Considerations**, **Key Resources**, and **Role Information** sections provide guidelines for enabling each feature, where applicable.

Product Usability

Query Portals Introduced for Existing Pages

In a previous release, many configuration objects used the fixed page metaphor user interface standard. Fixed pages use popup search windows to locate records. Many of these configuration options now provide query portals instead of popup search windows. Additionally, the Search menu item for these configuration objects will open a query portal rather than a popup search window.

The query portals provide a more intuitive search interface with several criteria fields and a single search button as compared to the popup search window that featured a separate search button for each search criteria group. When selecting a record from the results, the user is brought to the existing maintenance page. The navigation through the menu in Add mode bring the user to the maintenance page with a blank form (as before). The query portal includes an **Add** button to add a record from there.

The following provides additional detail of where this functionality has been added:

- **Algorithm Type**
- **Batch Control:** Besides batch control, description, and category, the query portal includes related batch control information search criteria.
- **Business Object:** Besides business object code, description, and maintenance object, the query portal include related business object information search criteria.

- **Characteristic Type:** The query portal provides searching by characteristic type, description, type of characteristic, and characteristic entity.
- **Field:** Besides field and description the query portal includes related field information search criteria.
- **Lookup:** The query portal provides field name and related field description search criteria.
- **Script:** Besides script, description algorithm entity, and script type, the query portal includes related step type information search criteria.

Steps To Enable

You don't need to do anything to enable this feature.

Tips and Considerations

Upgrade scripts ensure that users with Read access to existing application services will have Read access to the new application services associated with the new query portals. The following lists the application services associated with the existing fixed pages and the corresponding application services for the new query portal:

- **Object:** Algorithm Type
 - **New Application Service:** F1ALGT1
 - **Access Added to Any User Groups With This Application Service or Read Access:** CILTALTP
- **Object:** Batch Control
 - **New Application Service:** F1BTCHQ
 - **Access Added to Any User Groups With This Application Service or Read Access:** CILBTCP
- **Object:** Business Object
 - **New Application Service:** F1BOQ
 - **Access Added to Any User Groups With This Application Service or Read Access:** FWLTBOJP
- **Object:** Characteristic Type
 - **New Application Service:** F1CHRTYQ
 - **Access Added to Any User Groups With This Application Service or Read Access:** CILTCHTP
- **Object:** Field
 - **New Application Service:** F1FLDQ
 - **Access Added to Any User Groups With This Application Service or Read Access:** CILEFLDP
- **Object:** Lookup
 - **New Application Service:** F1LKUPQ
 - **Access Added to Any User Groups With This Application Service or Read Access:** CILTLKFP
- **Object:** Script

- **New Application Service:** F1SCRQ
- **Access Added to Any User Groups With This Application Service or Read Access:** CILZSCRP

To Do Processing

To Do Supervisor Actions

Supervisors can now reopen To Do Entries assigned to other users. Previously, only the user currently assigned to the To Do entry could reopen the To Do. Supervisors must be valid users in a To Do Role for the To Do Type to use this feature.

In a previous release, a supervisor outside the appropriate To Do Roles for a To Do Entry's To Do Type could assign To Do Entries to a user on the To Do Search page. In this release, only users that are valid users for the appropriate To Do Roles can perform actions on a To Do Entry.

Steps To Enable

Make the feature accessible by assigning or updating privileges and/or job roles. Details are provided in the **Role Information** section below.

Role Information

A supervisor must be a member of a User Group that has Supervisor Assignment access mode on the **To Do Management** and **To Do Search** application services.

Security Features

Secured Objects Zone Enhancements

The **Secured Objects** zone may now include the following objects:

- **Menu Items:** Included if the menu item references the application service.
- **UI Map:** Included if the application service is referenced in the HTML of the UI map using the **oraHasSecurity** function.
- **Schema UI Hints:** Included if the application service is found in a business object, business service, data area, service script, or UI map schema referencing the **oraHasSecurity** function.
- **Script Step:** Included if the application service is found in the Edit Data of the script step with a reference to the **F1-CheckApplicationSecurity** business service.

An option to filter the list by object code or description replaces the zone's pagination function to provide a more targeted list. An increased zone width accommodates lengthy descriptions and prevents scrolling to view information.

Steps To Enable

You don't need to do anything to enable this feature.

Key Resources

You can review the HTML or schema of the IU map to understand the objects being secured by the **oraHasSecurity** function.

You can review the script to understand the objects being secured by the **F1-CheckApplicationSecurity** business service.

Batch Processing

File Integration Extract Configuration

The application provides the following file integration administrative objects that define the processing needed to create a specific type of extract using a plugin-driven background process:

- **File Integration Type:** Describes and classifies the extract configuration.
- **File Integration Record Type:** Captures the sequence, format, and logic for extracting the data required by the extract record.

The File Integration Type defines the record types that make up the extract. Each file integration record uses a data area to define the record's format and a collection of extract algorithms that populate the data area. The file integration types are extendable through the addition of customer record type details or custom file integration records.

A new batch parameter defines the file integration type that is applicable to a batch control. The batch parameter works with the base-package **Process Records** algorithm that retrieves the file integration type configuration and processes in sequence for each record type of the configuration.

Steps To Enable

Make the feature accessible by assigning or updating privileges and/or job roles. Details are provided in the **Role Information** section below.

Key Resources

You can reference the *File Integration Type* section in the **Background Processes** chapter of the online help.

Role Information

Implementers that view and define file integration types must have access to the following application services:

- **Secured Entity:** *Application Service*
 - **File Integration Type MO:** *F1-FILEINT*
 - **File Integration Record MO:** *F1-FLINREC*
 - **File Integration Type Query Portal:** *F1FLINTS*
 - **File Integration Type Portal:** *F1FLINTP*

Ability to Skip Records in Plugin-Driven Extract

The **Process Record** algorithm can prevent writing empty rows to the extract file using the **is skipped** parameter.

The recommended best practice when designing plugin-driven batch is to ensure that the SQL in the Select Records algorithm is only selecting the records that are relevant to the process. Previously, the extract plugin-driven batch process expected each call to the Process Records plugin to return at least one schema to write to the extract file. In use cases where the Process Record algorithm checks a condition of the given record and finds that it does not need to be extracted after all, an empty row was written to the extract file. Starting in this release, for this situation, the Process Record algorithm can now configure the `is skipped output` parameter, which will ensure that no empty row is written.

Steps To Enable

Add logic to the **Process Record** algorithm that detects a condition where no extract details should be written and set the `is skipped` parameter to **True**.

Define Record XML Node for Plugin-Driven Extract

You can define a record XML node when multiple schemas are returned for a plugin-driven extract that should be output in XML format.

The record XML node output parameter resolves issues where:

- The Process Record algorithm returns multiple schemas (rows) for a given record.
- The plugin-driven extract batch process (whose output format is XML) is not able to determine which schemas belong together logically.

The output parameter 'record XML node' in the schema collection should be used to indicate the outer XML node to use to group related information together. All schemas returned from a single call to the Process Record plugin that have the same record XML node will be grouped in the written output within that XML tag.

Steps To Enable

To take advantage of this functionality, a Process Record algorithm that returns multiple schemas for a given record where all information in the schemas should be grouped within an XML tag should return the same **Record XML Node** value.

Thread Pool Name Batch Parameter

The **Thread Pool Name** parameter is available in all base-delivered batch controls. The parameter allows implementations to designate the batches to be run on a thread pool different from the default thread pool.

Steps To Enable

You don't need to do anything to enable this feature.

Tips and Considerations

Implementations with custom batch controls can add the **Thread Pool Name** parameter to their batch controls.

Integration

Additional REST APIs

New inbound REST web services are available. These include:

- **F1-BusinessInsights:** The *Common Business Insights API* enables adding business flag records.
- **F1-SubmitJob:** The *Batch Job Submission API* allows external batch scheduling systems to submit an adhoc batch submission request.
- **F1-SyncRequest:** The *Master Data Synchronization API* enables adding inbound synchronization request records.
- **F1-HealthCheckREST:** The *Health Check API* invokes the health check service and returns the health check results.
- **F1-Cache:** The *System Cache Management API* invokes the service that flushes the server cache.

Steps To Enable

Make the feature accessible by assigning or updating privileges and/or job roles. Details are provided in the **Role Information** section below.

Role Information

The service called by the operation on the REST web service references a specific Application Service. The administrator must grant security access to that application service to the user submitting the REST service.

Support for Tracing REST Inbound Web Services

The REST inbound web service object exposes tracing configuration to enable tracing. Enabling tracing for an inbound web service record creates log information for the record on future REST call executions.

Steps To Enable

You don't need to do anything to enable this feature.

Data Export

Data Export Tools

New set of tools are provided that allow customers to export their data to files that can be consumed by downstream applications like Data Lakes or any other system that needs the data.

The application supports the following classes of export methods for a maintenance object:

- **Generalized:** Applies to maintenance objects with low to medium volume and update activities. Most maintenance objects in the system are eligible for this method. This method involves an initial export of the object's entire data

followed by an ongoing export of the changes that occur over time. Not that the ongoing export functionality is only supported in a Cloud installation.

- **Specialized:** Applies to maintenance objects with high volume or frequent update activities. This method uses a specific batch process for each maintenance object to optimally export data. This type of export involves an initial export of the object's existing data. The initial run of the batch process exports the entity's existing data. Subsequent runs of the batch process exports data incrementally based on a timestamp field.

New batch controls are provided for eligible maintenance objects based on their export method classification.

The **Generalize Export Dashboard** portal allows you to select eligible entities to export and review their export state and configuration at a glance.

Steps To Enable

Make the feature accessible by assigning or updating privileges and/or job roles. Details are provided in the **Role Information** section below.

Tips and Considerations

The ongoing export feature of the Generalized Data Export method is only supported in a Cloud installation.

Key Resources

Refer to online documentation for more information.

Role Information

System administrators that handle data export activities must have access to the following application services:

- **Secured Entity:** *Application Service*
 - **Batch Controls:** *F1-DATAEXPORT* (all data export batch controls are associated with this application service)
 - **Data Export Control Maintenance Object and Business Objects:** *F1-DATAEXPORTCTRL*
 - **Data Export Control Portal:** *F1DEXCNT*
 - **Data Export Control Query Portal:** *F1DEXCNS*
 - **Generalized Export Dashboard Portal:** *F1GEXDAS*

Analytics

Metadata Extension for Analytics Tables (Oracle Utilities Analytics Visualizations)

The metadata describing the product's data model is extended to define tables and views that represent dimension and fact tables in the operational analytics product. New entities and portals are introduced to capture analytics table definitions.

Steps To Enable

Make the feature accessible by assigning or updating privileges and/or job roles. Details are provided in the **Role Information** section below.

Tips and Considerations

Support for custom analytics dimensions and facts is currently not available. Extending the definitions of analytics dimensions is available only through characteristics mapping.

Key Resources

Refer to online documentation for more information.

Role Information

System administrators must have access to the following application services if implementations integrate with Oracle Utilities Analytics Visualization:

- **Secured Entity:** *Application Service*
 - **Analytics Table Maintenance Object and Business Objects:** *F1-ANALYTICS*
 - **Analytics Table Query Portal:** *F1ANLYTS*
 - **Analytics Dimension Portal:** *F1ANALYT*
 - **Analytics Fact Portal:** *F1ANFACT*

Characteristics Mapping

The Characteristics Mapping feature maps characteristics to user-defined fields provided by Oracle Utilities Analytics Visualization for each characteristics table associated with an analytics dimension table. Characteristics mapping records can be directly maintained on the Analytics Dimension portal.

This release renames the **ETL Mapping Control** menu item to **Characteristics Mapping** and provides standard query and maintenance portals for the maintenance object. Support for ETL Mapping Control is still available for existing implementations integrated with Oracle Utilities Analytics.

Steps To Enable

Make the feature accessible by assigning or updating privileges and/or job roles. Details are provided in the **Role Information** section below.

Tips and Considerations

The **Characteristic Mapping Query** portal is associated with the new *F1CHRMAP* application service. Upgrade scripts ensure that users with Read access to the existing Application Service will receive Read access to the new application service.

- **Secured Entity:** Characteristic Mapping Query Portal
 - **Application Service:** *F1CHRMAP*
 - **Access Added to Any User Groups With This Application Service or Read Access:** *F1ETL*

System administrators must have access to this application service if implementations integrate with Oracle Utilities Analytics Visualization:

- **Secured Entity:** *Application Service*

- **Characteristic Mapping BO:** *F1-CHARMAPBOAS*

Key Resources

Refer to online documentation for more information.

Additional Business Flag Configuration Values

The **Confidence** attribute on Business Flag records now includes a *Missed* option, which can denote a false negative or a condition missed by the analysis tool.

Additionally, numeric values from *10 to 90* replace the *Low*, *Medium*, and *High* options of the **Priority** attribute. For backward compatibility, an upgrade step will adjust existing **Priority** values of Business Flags and Business Flag Types to the following:

- From High to 10
- From Medium to 50
- From Low to 90

Steps To Enable

You don't need to do anything to enable this feature.

Miscellaneous Features

Support Health Check Customization

The new Health Check installation-level System Event enables other product layers and implementations to add algorithms to check for additional conditions. The System Event also includes a base algorithm that checks the Batch Control - Level of Service algorithms. Previously, the Health Check portal and web service only supported checking the Batch Control - Level of Service algorithms.

Steps To Enable

Go to the **Algorithms** tab of the **Installation Options - Framework** page and find or add the *Health Check* System Event, then add the algorithms appropriate to your business.

Tips and Considerations

For backward compatibility, the system automatically references the Batch Control - Level of Service algorithm in the Health Check System Event in the installation algorithm collection for upgrading clients.

For implementations providing additional checks for other system components, refer to **Introducing Health Check Conditions** in the online documentation for more information.

Default User Support for Configuration Migration Assistant

The new **Default User** attribute in the Migration Assistant Configuration (Master Configuration) record prevents errors from occurring when the system references a non-existing user ID in the target environment during a data import.

You have the option of defining a Default User. The Configuration Migration Assistant tool uses the defined Default User when a record has constraints on the User table and the referenced user ID is invalid.

Steps To Enable

In the `Master Configuration` portal, update the Migration Assistance Configuration with a **Default User ID**.

Information Lifecycle Management Adjustments

The default value of the ILM Restrict by Status business object option is set to *Y* for the following maintenance objects:

- F1-BUSFLG: Business Flag
- F1-MKTMSGIN: Inbound Market Message
- F1-MKTMSGOUT: Outbound Market Message
- F1-MKTPRCEVT: Market Process Event
- F1-MKTPROC: Market Process
- F1-OBJERSCH: Object Erasure Schedule
- F1-PROSTR: Process Flow
- F1-REMOTEMSG: Mobile Remote Message
- F1-STSSNPSHT: Statistics Snapshot
- F1-SVCTASK: Service Task
- F1-SYNC REQ: Sync Request
- F1-SYNCREQIN: Inbound Sync Request

Defaulting **ILM Restrict by Status** to *Y* allows the Information Lifecycle Management Eligibility algorithm of the maintenance objects to restrict archiving based on the status of the record.

Steps To Enable

You don't need to do anything to enable this feature.

Tips and Considerations

Implementations using Information Lifecycle Management that do not require archiving restrictions based on status should add the **ILM Restrict by Status** option type, assign it a higher sequence number, and set its value to *N*.

Conversion Entity Dashboard

The implementation tools for reviewing data conversion information include the following:

- **Conversion Entity Query:** Facilitates the selection of maintenance objects eligible for data conversion.
- **Conversion Entity Dashboard:** Lists the data conversion settings of the queried maintenance object and the current status of maintenance objects in the overall data conversion process.

Steps To Enable

Make the feature accessible by assigning or updating privileges and/or job roles. Details are provided in the **Role Information** section below.

Role Information

System administrators that handle data conversion activities must have access to the following application services:

- **Secured Entity:** *Application Service*
 - **Conversion Entity Dashboard Portal:** *F1CVENTD*
 - **Conversion Entity Query:** *F1CVENTQ*

Ability to Delay Algorithm Execution

The **F1PRFMDELAY** algorithm type creates a delay in processes that perform asynchronous actions and continue upon receiving a response.

Implementations can use this Business Object Status - Enter algorithm type to delay (counted in seconds) processes that expect a near immediate response to an asynchronous request. The design of the processes using this algorithm type must also consider responses not arriving in a timely manner.

Steps To Enable

For business objects that include a step that sends a message and expects an asynchronous response, create an algorithm for the **F1PRFMDELAY** algorithm type. Configure the algorithm with the appropriate number of seconds to delay in the parameter. Configure this new algorithm on a status that includes an algorithm that checks for the receipt of the asynchronous response.

Online Help Reorganization

Online Help Reorganization

The **Defining Algorithms** and **Defining Script Options** chapters of the online help are now under the **Configuration Tools** chapter. Reorganizing the chapters improves the searchability and usability of the algorithm and script topics as these are highly relevant components of the configuration tools.

Steps To Enable

You don't need to do anything 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 v4.3.0.5, 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.

Application Viewer

In a future release, we plan to no longer support a standalone application viewer. The functionality will be incorporated into the application:

- Similar to the data dictionary, we will enhance user interfaces for tables and fields to provide more information at a glance and provide a view of links between tables.
- Information displayed for maintenance objects, batch controls and algorithm types and algorithms are already visible in the application.
- Javadocs and Groovy Javadocs will be viewable from within the application rather than launching a separate application viewer application.

REST IWS - Original REST Servlet

The original URL supplied for invoking IWS-based REST services included the IWS Service name in its makeup. We continue to support this for backward compatibility purposes, but we will deprecate it in a future release. As defined in the documentation, you should adjust your existing integrations to use the currently supported URL.

Maintenance BPA Change Warnings to Popup

Currently, the common maintenance BPA used by most of the system displays warnings as errors. This erroneously allows you to make changes to the record before clicking OK. In this situation, the warning conditions will not be checked again for the new changes. We plan on changing this in the future to show warnings as pop-ups. You will be able to click OK to accept the warning without being able to make any changes. You can click Cancel to adjust the form and resubmit, which will check the warning conditions again.

Append Setting In Pagination

There are several known issues with the functionality of the 'append' option in pagination such that it is not recommended to use this pagination setting. This functionality will be deprecated 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.

Selected Functionality of the Batch Run Statistics Portal

The **Batch Run Statistics** portal provides some additional information about batch runs. However, some of the functionality provided on this page is related to capturing additional information from an external tool. This information is stored in a Fact record.

The functionality related to capturing additional information will no longer be supported in a future release. This information will still be available to existing clients, but the functionality will no longer be maintained.

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 metadata related to the legacy LDAP import pages will be removed in a future release: Services CILTLDIP, CILTLDIL, CILTLDIS, Application Service: CILTLDIP
- 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 zone F1-MGRREQDSP will be removed in a future release.

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.