

Oracle Utilities Work and Asset Management

Release Notes

Release 2.2.0.4

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Oracle Utilities Work and Asset Management Release Notes for Release 2.2.0.4

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Preface

This document provides an overview of the enhancements, known issues, and other changes in Oracle Utilities Work and Asset Management v2.2.0.4. The intended audience is anyone installing or using Oracle Utilities Work and Asset Management v2.2.0.4.

Related Documents

For more information on this release, refer to the following documents:

Installation Guides

- Oracle Utilities Work and Asset Management Release Notes
- Oracle Utilities Work and Asset Management Quick Install Guide
- Oracle Utilities Work and Asset Management Installation Guide
- Oracle Utilities Work and Asset Management Database Administrator's Guide
- Oracle Utilities Work and Asset Management Licensing Information User Manual

User Guides

- Oracle Utilities Work and Asset Management and Oracle Utilities Operational Device Management Business User's Guide
- Oracle Utilities Work and Asset Management and Oracle Utilities Operational Device Management Administrative User's Guide
- Oracle Utilities Work and Asset Management Mobile Application User's Guide

Supplemental Documents

- Oracle Utilities Work and Asset Management Server Administration Guide
- Oracle Utilities Work and Asset Management 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. |
| <i>italic</i> | 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 on the screen, or text that you enter. |

Chapter 1

Release Notes

Release Notes provides general information about this Oracle Utilities Work and Asset Management release, including new functionality/enhancements, known issues, and other important information.

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

Visit My Oracle Support (<http://support.oracle.com>) for the most recent service packs and patches for this release to ensure you have the most current version of the product.

This guide includes the following:

- [About This Release](#)
 - [Relationship Between v2.2.0.0 and Prior Versions](#)
 - [Database Changes](#)
 - [Upgrade Considerations](#)
 - [Deprecated Items](#)
 - [Supported Integrations](#)
 - [Supported Portals on iOS](#)
- [Demo Data Information](#)
- [Oracle Utilities Work and Asset Management Enhancements](#)
- [Oracle Utilities Application Framework v4.4.0.0 Release Notes](#)
- [Known Issues](#)
- [System Data Deprecation](#)

About This Release

This release includes functionality updates for Oracle Utilities Work and Asset Management and Oracle Utilities Operational Device Management:

- Oracle Utilities Work and Asset Management provides functionality to handle large volumes of assets and to manage the receipt, installation, maintenance, tracking and removal of those assets. The system also manages approval processing, tracks purchasing transactions, manages inventory and resources, and tracks costs, accounting and financial transactions.
- Oracle Utilities Operational Device Management provides functionality to handle large volumes of Utilities industry devices and to manage the receipt, installation, maintenance, tracking and removal of those devices.

Note: Oracle Utilities Operational Device Management is optimized for interoperability with Oracle Utilities Work and Asset Management, however a license for Oracle Utilities Work and Asset Management is required to take advantage of this functionality. Refer to the *Oracle Utilities Work and Asset Management Licensing Information User Manual* for a description of licensing limitations.

The release includes the following components:

- Oracle Utilities Application Framework v4.4.0.0
- Oracle Utilities Work and Asset Management v2.2.0.4

Features introduced in this release are highlighted in the [Oracle Utilities Work and Asset Management Enhancements](#) section.

- Refer to the *Oracle Utilities Work and Asset Management Quick Install Guide* for a full list of the media pack components and application components included with this release. Also refer to the **Supported Platforms** section in that guide for an updated list of supported platforms.
- Visit My Oracle Support (<http://support.oracle.com>) for the most recent service packs and patches for this release to ensure you have the most current version of this product.

Relationship Between v2.2.0.0 and Prior Versions

For the complete installation procedure, refer to the *Oracle Utilities Work and Asset Management Installation Guide*.

Database Changes

This release includes database enhancements. For more information, refer to the *Oracle Utilities Work and Asset Management Database Administrator's Guide*.

Upgrade Considerations

This section provides the considerations with respect to upgrading Oracle Utilities Work and Asset Management from a prior version to v2.2.0.2.

As part of the upgrade process, values for the existing Work Category/ Work Class lookups (WORK_CLASS_FLG and WORK_CATEGORY_FLG) will be converted to Admin data. These values can be maintained via their own portals. This allows filtering/reporting on work at the Activity level.

The following table shows the new admin tables, and the business and maintenance objects for each.

| New Admin Table | Tables | Business Objects | Maintenance Object |
|-----------------|---------------------------------|--|--------------------|
| Work Class | W1_WORK_CLASS (Primary) | W1-WORKCLASS (Work Class) | W1-WORKCLAS |
| | W1_WORK_CLASS_ CHAR | W1- WORKCLASSBUN DLINGADDBO (Bundling Add BO for Work Class) | |
| | W1_WORK_CLASS_L | | |
| | W1_WORK_CLASS_ WORK_CATEGORY | W1- WORKCLASSPHY SICALBO (Physical BO for Work Class) | |
| Work Category | W1_WORK_ CATEGORY (Primary) | W1- WORKCATEGOR Y (Work Category) | W1-WORKCAT |
| | W1_WORK_ CATEGORY_CHAR | W1- WORKCATEGOR YBUNDLINGADD BO (Bundling Add BO for Work Category) | |
| | W1_WORK_ CATEGORY_L | | |
| | | W1- WORKCATEGOR YPHYSICALBO (Work Category Physical BO) | |

Deprecated Items

The Work Class and Work Category flag fields/lookups have been replaced with admin/maintenance objects with corresponding names. Though deprecated, these fields/lookups remain in the system but are no longer used.

For more information about the Work Class and Work Category admin tables, refer to the table in the [Upgrade Considerations](#) section.

Supported Integrations

The following integrations are supported in this version of Oracle Utilities Work and Asset Management:

- **GIS Integration**
The GIS Integration uses ESRI GIS software to allow users to view asset layers on a map, and to create and view work requests and work orders on the map.
- **Integration with Mobile Workforce Management**
Oracle Utilities Work and Asset Management integration with Oracle Utilities Mobile Workforce Management is managed through the Oracle Utilities Field Work Process Integration Pack.
- **Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning (ERP)**
The Oracle Utilities Work and Asset Management Connector for Enterprise Resource Planning enables integration of Oracle Utilities Work and Asset Management with a generic set of business processes and data exchanges for implementations with Enterprise Resource Planning systems such as Oracle E-Business Suite, PeopleSoft, JD Edwards EnterpriseOne, Fusion Applications or Enterprise Resource Planning Cloud.
- **BI Publisher Reports Integration**
BI Publisher Reports allow users to generate and print reports for certain entities, such as operational data, activity reports, purchasing reports, inventory reports and so on. Refer to the Administrative User Guide for more information.
- **Oracle Utilities Field Work Process Integration Pack**
The Oracle Utilities Work and Asset Management integration with Oracle Utilities Mobile Workforce Management is managed through the Oracle Utilities Field Work Process Integration Pack.
- **Oracle Utilities Analytics**
 - Oracle Utilities Work and Asset Management Analytics for v2.7.x
 - Oracle Utilities Work and Asset Management Extractors and Schemas for v2.7.x

Please refer to the *Oracle Utilities Work and Asset Management Administrative User Guide* or the specific integration guides available on the Oracle Technology Network for more information.

Supported Portals on iOS

The following portals are supported when accessing the WAM application via a browser on Apple iOS devices in this release:

Crew Work-related Portals:

- Work Requests
- Service Call
- Work Order
- Work Activity
- Timesheet

- Other Direct Charges
- Construction Work Order
- Construction work Activity

Inventory-related Portals:

- Material Request
- Material Return
- Receiving Receipt
- Receiving Return
- Physical Inventory
- Reorder Review
- Reorder Mass Approval
- Stock Item
- Stock Item Detail
- Stock Transfer

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 delivered as part of the base installation. Refer to the *Oracle Utilities Work and Asset Management Database Administrator's Guide* for more information, or contact Oracle Support.

Oracle recommends that you do not clone the demonstration environment as a basis for a new production environment. The demonstration environment typically includes transactional data that will be irrelevant to your production environment and can cause unexpected issues if it is not purged correctly. The recommended process is to start a new production environment from a new installation and migrate “clean” system data (such as business objects and algorithms) and administrative data (such as sample activity types or other administrative entities) from the demonstration and/or test or development environments as applicable.

Refer to the *Oracle Utilities Work and Asset Management Administrative User Guide* for more information or contact Oracle Support.

Oracle Utilities Work and Asset Management Enhancements

This section describes new and enhanced features in this release of Oracle Utilities Work and Asset Management.

The release includes:

- [Work Related API Enhancements](#)
- [Work Management Enhancements](#)
- [GIS Enhancements](#)
- [Asset Management Enhancements](#)
- [Administrative Data Enhancements](#)

Work Related API Enhancements

The following new APIs are provided to support creation of work by the crew in the field. These APIs are designed to support the base product's mobile application but are exposed also as web services for an external system to use.

Asset Query Inbound Web Service

This web service returns a list of asset location / assets matching the input criteria.

Steps to Enable

No steps are required to enable this feature.

Get Asset/Location Details Inbound Web Service

This web service returns asset and location information needed to support an asset related activity created in the field.

Steps to Enable

No steps are required to enable this feature.

Create Mobile Work Order

This inbound web service creates a work order for a single asset based on the information provided by a crew in the field. The new work order consists of a single activity. The new work order may be a follow up to an existing activity. As such the new work order would be associated with the existing activity's work order as the initiating work order.

If the crew initiating the activity indicates they plan to also work the activity it is automatically activated.

When the crew creates the new order via the product's mobile application and indicates that they plan to work it, the system automatically adds the activity to the crew's daily shift thus making it also available to the rest of the crew members. The activity is also locked to the initiating employee so they can fully status and complete the activity from their mobile device.

The inbound communication record as well as the new work activity are stamped with the mobile activity's unique identifier for future reference. When processing the activity completion message for such activity the system locates the activity via its mobile identifier.

Steps to Enable

No steps are required to enable this feature.

Create Mobile Work Request Inbound Web Service

This web service may be used by the mobile application as well as an external system to record a crew's initiation of a work request.

Steps to Enable

No steps are required to enable this feature.

Work Management Enhancements

Capture Work Class and Work Category on Template Activity

This enhancement allows users to capture Work Class and Work Category on existing Template Activity business object implementations, General Template Activity and Asset Location Specific Template Activity. When a template activity is being added to a Template Work Order, the work class and category will be defaulted using values from the template work order.

Steps to Enable

No steps are required to enable this feature.

Copy Work Class and Category from Template Activity to Work Activity

The business service that handles creation of activities based on a template activity was updated to default Work Class and Work Category using values from the template. If neither Work Class and Work Category are configured on the Template Activity, the Work Class and Work Category of the Work Order, if configured, will be used.

Steps to Enable

No steps are required to enable this feature.

Work Class and Work Category Validation on Work Order, Work Activity and Work Request

Instead of performing Work Class and Work Category validation for every update, existing Work Class and Work Category validations are performed only when a Work Order, Work Activity or Work Request is being added or submitted for approval. This allows users to work on approved work order, work request, or activities even if the referenced work class or work category have been deactivated or if the work category was removed from a work class.

Steps to Enable

No steps are required to enable this feature.

Push Break In Work to Mobile Crew

An audit algorithm was added to the Daily Schedule business object which sends new break in activities to all crew members currently using the mobile application. The crew shift's supervisor receives the activity with the ability to complete it. If the activity is an emergency, an alert message is displayed on the mobile device to notify the crew that an emergency activity was added to the schedule.

Steps to Enable

No steps are required to enable this feature.

Permits

Permits specify work to be done and any precautions that must be taken prior the work can begin. Permits can either be Internal or External. Internal Permits are planned and are managed internally while External Permits are initially obtained by the utility from an outside organization.

The **Permit Query** and **Permit** portals supports maintenance of permits, and include the following functionality.

- **Permit Search:** Permits can be searched by Permit Information or by Permit Identifier. Using Permit Information, filter options are given and are not limited to Permit Template, Permit Number, Create By User for the user who created the permit, Requestor for who requested for the permit, Permit Owner, and the Status of the permit. Using Permit Identifier, the Permit ID can be entered as search filter.
- **Assign Holder:** An action used when assigning the Name or the Employee that is responsible for reviewing and confirming what are included in the permit.

Once assigned, it is shown in the Permit as the Current Holder, with entry added under Permit Holder History. Current Holder can be changed provided the Permit is not in its final state.

- **Asset/Location:** Displays a list of Assets, Locations, or a combination of Asset Locations the Permit is for. An Asset/Location can be added by the Edit hyperlink on the zone. When entering an Asset, the Location is automatically populated with the Asset's current location.
- **Checklist Tab:** A tab used to maintain Checklist Types. Checklist Types that can be used here are maintained in the Permit's Template. A change in the Permit's status can be configured to either issue warning or stop processing depending on how the Checklist Type for the Checklist is configured.
- **Service History Tab:** A tab that displays the Permit Service History entries made to the Work Activity by the Permit Participants. Service History is a way of tracking the ins and outs of the participants which include any person entering into the work site governed by the permit. The same information can be found on Service History zone of the the Work Activity's Permit Tab.
- **Related Activity Tab:** A tab that displays the Work Order and Work Activity referencing the Permit
- **Log Tab:** A tab that displays the Permit's Approval Request History and status transitions.

Steps to Enable

No steps are required to enable this feature.

Permit Class

Permit Class allows maintenance of different types of classifications for External (Excavation, Right of Way, etc) and Internal (Confined Space, Hot Work) permits. This also allows users to set Lead Days, To Do Type and To Do Role that will be used for Permit expiration warning.

Steps to Enable

No steps are required to enable this feature.

Permit Template

A Permit Template is used to quickly create External and Internal Permits. The template supports maintenance of Checklist Types and Planned Service History Types that can be used for External Permits, and Checklist Types, Planned Service Service History Types, Labor, Equipment, and Materials that can be used for Internal Permits. Users can have modifications on the permit created from the template before routing them for approval.

Steps to Enable

No steps are required to enable this feature.

Work Activity Permit Checklist

In Work Activity, aside from General Checklists, users can also add Permit Checklists from the **Permit** tab. Permits can then be linked to it through the **Permit** button

available for each line item. User can either link an existing permit or create a new permit record.

Attachments related to each permit and its permit template can also be seen in the **Permit Attachments** section.

The **Service History Type** zone lists all service history types associated to the permit template of permits linked to the work activity. Users can create a service history from this zone passing on the activity and permit ID and will be listed in the Service History zone.

Steps to Enable

No steps are required to enable this feature.

GIS Enhancements

Asset Attribute Mapping

The GIS to WAM mapping capability has been extended to support a mapping between a GIS field and an Asset Attribute.

Steps to Enable

An administrator must perform the following to enable this feature:

- Define GIS-related asset attributes as characteristics that are associated with the "asset attribute" as well as "GIS related" entity types.
- Associate the attributes with specific asset types that participate in the GIS integration synchronization.
- Map GIS fields to their corresponding asset attribute on the "GIS to WAM" extendable lookup

Special Implementation Considerations

Mapping GIS fields to asset attributes is preferred over mapping to custom XPath based elements as it eliminates the need for extending the base asset business objects for that purpose.

Ongoing Asset Synchronization

This enhancement allows the GIS system to keep sending updates to specific GIS fields for assets that were previously created in WAM by the GIS synchronization process.

Steps to Enable

An administrator must perform the following to enable this feature:

- Indicate which of the mapped GIS fields should allow ongoing updates from the GIS system on the "GIS to WAM" extendable lookup

Special Implementation Considerations

Note that the same GIS field may not be marked for ongoing updates as well as included in ongoing updates from WAM back to GIS. Either GIS or WAM should be the system of record for a GIS field.

Asset Removal and Abandonment

GIS features that were previously synchronized to WAM from the GIS system and were subsequently removed from the GIS system or marked as abandoned are properly retired in WAM as part of the synchronization process. The corresponding asset location is marked inactive.

Note that the system identifies an abandoned feature as having a configurable GIS field and value combination. The abandoned GIS feature must retain its GIS ID as it is key to identifying the corresponding asset in WAM.

Steps to Enable

An administrator must perform the following to enable this feature:

- Define a default location for out of service assets in the "Esri WAM Master Configuration".
- Define the GIS field and value used to mark a feature as abandoned on the GIS system in the "Esri WAM Master Configuration".

Special Implementation Considerations

When designing the abandonment process flow in the GIS system make sure such event retains the feature's GIS ID as it remains key to identifying the corresponding asset in WAM. Instead of changing the feature's class, which results in a new GIS ID being assigned to it, use a designated GIS field and value to mark the feature as abandoned.

Asset Splits

A pipe segment can be split on the end or the middle creating several new sections of pipe in the GIS map. When performing a pipe split from GIS the new feature references the GIS ID of the original feature. Keeping such reference to the original feature is important for retaining historical information (Cost / Work history). This enhancement allows the new feature to be synchronized to WAM along with the reference to the GIS ID of the original feature they were split from. If the original asset exists in WAM, the user may be able to drill in to original asset location from the new asset location.

Steps to Enable

An administrator must perform the following to enable this feature:

- Map GIS field that holds the reference to the original feature's GIS ID to the "original GIS ID" asset location element on the "GIS to WAM" extendable lookup

Special Implementation Considerations

Designate a specific GIS field to capture the reference of an original feature the current feature was split from or related to. Depending on business practices and GIS configuration capabilities, this value may be manually captured or customized to be automatically populated onto new features on certain GIS actions.

Skip GIS Features By Subclass

This enhancement allows certain sub classes of a specific feature class to be skipped from synchronization. Before this enhancement, all GIS features of a specific class had to be synchronized to WAM.

Steps to Enable

An administrator must perform the following to enable this feature:

- Specify the GIS Field / Value combinations identifying GIS features to be skipped from synchronization. Note that it is enough for a feature to have at least one of these field / values to be skipped on the "GIS to WAM" extendable lookup

Organization External Identifier

The definition of an organization record may optionally reference a unique name of that organization as known to an external system for reporting purposes.

Steps to Enable

No steps are required to enable this feature.

Special Implementation Considerations

An implementation team may take advantage of the organization external identifier to add custom rules to the GIS asset synchronization process to default an asset location's organization based on a match between a GIS field capturing the organization name and the organization record in WAM associated with that exact name as its external identifier.

Default Maintenance Specifications

When an asset is created online or via synchronization and its location indicates it should not run to failure and only one maintenance specification is defined on the asset type, the system automatically defaults that specification onto the new asset.

Steps to Enable

No steps are required to enable this feature.

GIS Service Call

- A new **Service Call** tab has been added in GIS map viewer. In this tab, users can view service call records. User can also filter by various filter options to view service call records.
- Service call records can be created from GIS map viewer by selecting an asset record or by dropping a pin on GIS map viewer.
- User can view the service call record in GIS map viewer by clicking **View in Map** available in the **Service Call** maintenance portal **Record Actions** section. This is available only if the service call record is associated with GIS.

Steps to Enable

No steps are required to enable this feature.

Asset Management Enhancements

Permit Zones on Asset and Asset Location

The **Permit** zone list all permits associated with Asset/Asset Location through Asset/Location list on the permit.

A broadcast icon is available on each permit. When broadcast, the **Service History** zone displays all service history records created for the permit through Work Activity.

Steps to Enable

No steps are required to enable this feature.

Role-Related Information

Permits with Asset/Asset List should be associated to a Work Activity. Service History records needs to be created for permit of this type in order for the zone to display records.

Administrative Data Enhancements

Criticality and Work Priority Lookups

Lookup values delivered for Criticality and Work Priority flags have been updated.

The following lookup values will be deprecated on the next release. In order for existing customers to reference these lookup values, an upgrade script is provided to set them as custom-owned.

- **Criticality:** '02', '03', '04', '05', '06', '07', '08','09'
- **Work Priority:** '01', '02', '03', '04', '05', '06', '07','08'

In addition, the description of remaining base values were updated as follows

- **Criticality:** 09 Emergency
- **Work Priority:** 01 Asset Failure Low Impact

Steps to Enable

No steps are required to enable this feature.

Special Implementation Considerations

Description for the following lookup values were updated in English. Similar changes are required for other supported languages.

| Lookup | Field Value | Old Description | New Description | Language Code |
|-------------------|-------------|-----------------|-----------------------------|---------------|
| CRITICALITY_FLG | 01 | 01 - Lowest | 01 Asset Failure Low Impact | ENG |
| WORK_PRIORITY_FLG | 09 | 09 - Highest | 09 Emergency | ENG |

Checklist Type and Checklist for Permit

Aside from Activity, General Checklist Types can be related to Permit maintenance object. Checklist types for permit item only checklists requires a permit template for each default line item. When this checklist type is used to create a checklist, permit records are to be specified to each checklist line item.

Steps to Enable

No steps are required to enable this feature.

Oracle Utilities Application Framework v4.4.0.0 Release Notes

This section describes enhancements, system data details and deprecation notices in Oracle Utilities Application Framework v4.4.0.0 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, 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.

Known Issues

The following section lists known issues and bugs not fixed in this release of Oracle Utilities Work and Asset Management and the Oracle Utilities Application Framework.

This section includes:

- [Known Issues in Oracle Utilities Work and Asset Management](#)
- [Known Issues Oracle Utilities Application Framework](#)

Known Issues in Oracle Utilities Work and Asset Management

The following table lists known issues in this version of Oracle Utilities Work and Asset Management at the time of release.

| Bug # | Description |
|-------|-------------|
| | |

Known Issues Oracle Utilities Application Framework

The following are the known issues in this version of Oracle Utilities Application Framework which may affect Oracle Utilities Work and Asset Management 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).

System Data Deprecation

Removed/Obsoleted Objects

The following objects have been removed from the system:

| Object Type | Objects |
|--------------------------|--|
| UI Maps | W1-AssetLocSelTemplateDisp |
| Zones | W1-PIRPTQ1 |
| Scripts | W1-MSAsLoPre W1-MSAlCrDts W1-MSAsLoPos W1-ValSvcHis |
| Status Reason | Cancelling Service Call |
| Algorithm/Algorithm Type | W1-VALSVCHIS |

Replaced Fields

The following fields have been replaced:

| Previous Field | New Field |
|----------------|-----------|
| SERIAL_NUMBER | SERIAL_NO |
| BADGE_NUMBER | BADGE_NO |