

ESRI ArcGIS Integration to Oracle Utilities Work and Asset Cloud Service

Release Notes

Release 25.4

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ESRI ArcGIS Integration to Oracle Utilities Work and Asset Cloud Service Release Notes

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Preface

Welcome to the ESRI ArcGIS Integration to Oracle Utilities Work and Asset Cloud Service Release Notes for release 25.4.

This preface includes the following:

- [Audience](#)
- [Documentation and Resources](#)
- [Updates to Documentation](#)
- [Documentation Accessibility](#)
- [Conventions](#)
- [Abbreviations](#)

Audience

This document is intended for anyone implementing the integration of the following products:

- ESRI ArcGIS
- Oracle Utilities Work and Asset Cloud Service

Documentation and Resources

For more information regarding this integration, foundation technology and the edge applications, refer to the following documents:

Product Documentation

Topic	Location
ESRI ArcGIS Integration to Oracle Utilities Work and Asset Cloud Service documentation	https://docs.oracle.com/en/industries/energy-water/integrations-index.html
Oracle Utilities Work and Asset Cloud Service documentation	https://docs.oracle.com/en/industries/energy-water/work-asset-cloud-service/index.html
ESRI ArcGIS documentation	https://doc.arcgis.com/en/

Additional Documentation

Resource	Location
Oracle Integration Cloud documentation	https://docs.oracle.com/en/cloud/paas/integration-cloud/index.html
My Oracle Support	Visit https://support.oracle.com regularly to stay informed about updates and patches.
Oracle Technology Network (OTN) for latest versions of documents	http://www.oracle.com/technetwork/index.html
Oracle University for training opportunities	http://education.oracle.com/

Updates to Documentation

For complete ESRI ArcGIS Integration to Oracle Utilities Work and Asset Cloud Service documentation, refer to the [Oracle Energy and Water Integrations](#) page on [Oracle Help Center](#).

Visit [My Oracle Support](#) for additional and updated information about the product.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers have access to electronic support for the hearing impaired. Visit: <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs>

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 that appears on the screen, or text that you enter.

Abbreviations

This document includes the following abbreviations:

Term	Expanded Form
ESRI	ESRI ArcGIS
OIC	Oracle Integration Cloud
DVM	Domain Value Map (Lookup)
WACS	Oracle Utilities Work and Asset Cloud Service
WAM	Oracle Utilities Work and Asset Management

Chapter 1

Release Notes

This release notes outlines the information about new and improved functionality in integrating ESRI ArcGIS with Oracle Utilities Work and Asset Cloud Service for release 25.4. Each section includes a brief description of the feature, the steps to enable or start using the feature, and any tips or considerations to consider.

The release notes focuses on the following:

- [Integration Overview](#)
- [Supported Applications](#)
- [Browser-Based Client Versions](#)
- [About Oracle Utilities Work and Asset Cloud Service \(WACS\)](#)
- [About ESRI ArcGIS \(ArcGIS\)](#)
- [About Oracle Integration Cloud \(OIC\)](#)
- [New Features Summary](#)
- [Known Issues](#)

Integration Overview

Geographic Information Systems (GIS) play a key role in day-to-day operations of utility companies. GIS represents a foundational layer of technology for effective asset management and regulatory compliance. GIS can be leveraged for various purposes, including asset inventory and infrastructure insights, field operations management, digitizing the data collection process, and more.

The ESRI ArcGIS to Oracle Utilities Work and Asset Cloud Service integration, built in Oracle Integration Cloud, enables asset and location synchronization between ESRI ArcGIS and Oracle Utilities Work and Asset Cloud Service. With support for ESRI version 11 and the Utility Network Model, the solution provides support for the latest ESRI software versions and data models, enhanced data consistency, and improved geospatial and asset management capabilities.

This solution provides:

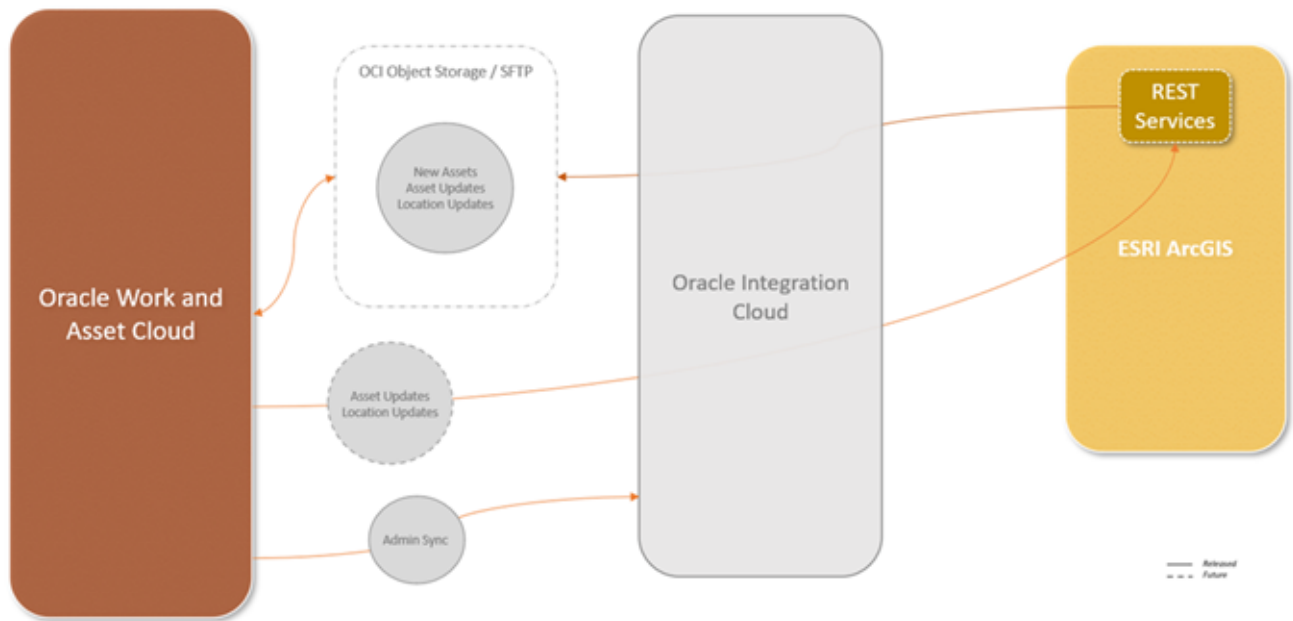
- **Empowered Decision-Making:** Provides precise geospatial insights for faster, data-driven utility management.
- **Extended Use Cases:** Manages complex asset-location relationships, multi-utility datasets, and improved monitoring via Oracle Integration Cloud.
- **Full Compatibility:** Supports ESRI ArcGIS version and the Utility Network Model for seamless integration.
- **Multiple ESRI Enterprise Portal Support and Scalability:** Supports multiple ESRI ArcGIS environments, enabling broader adoption across different utility landscapes.
- **Optimized Performance and Ease of Use:** Utilizes modern ESRI ArcGIS and Oracle Integration Cloud technology stacks to improve processing speeds, reduce errors, and simplify user interaction.

In this integration release, the following features are included:

- Ability to perform a full/initial synchronization of asset and asset locations from ESRI ArcGIS to Oracle Utilities Work and Asset Cloud Service.
- Incremental synchronization from ESRI ArcGIS to Oracle Utilities Work and Asset Cloud Service for assets that have been added, updated, and deleted.
- Synchronizing extendable lookups from Oracle Utilities Work and Asset Cloud Service to Oracle Integration Cloud for streamlined access to asset-feature mapping.

The integration will be facilitated via Oracle Integration Cloud and will include flows for synchronizations between both ESRI ArcGIS and Oracle Utilities Work and Asset Cloud Service.

The following diagram illustrates the business processes supported in this integration:



Supported Applications

The following table lists the supported application versions in this integration:

Supported Application	Version
Oracle Utilities Work and Asset Management	V25.4 and higher (on-premises version)
Note that the on-premises versions (Oracle Utilities Work and Asset Management) may have limited functionality as they trail cloud-based versions (Oracle Utilities Work and Asset Cloud Service) due to the release frequency.	
Oracle Utilities Work and Asset Cloud Service	V25.4 and higher
Oracle Integration Cloud	V25.04.1 or higher
ESRI ArcGIS	11.3+

Browser-Based Client Versions

The following table lists the web browsers this integration supports:

Browser	Google Chrome (for Mobility)
Mobile Application	iOS/Android

About Oracle Utilities Work and Asset Cloud Service (WACS)

Oracle Utilities Work and Asset Cloud Service efficiently manages asset lifecycles, streamlines maintenance operations, maximizes supply chain performance, enhances safety, and improves regulatory compliance.

About ESRI ArcGIS (ArcGIS)

ESRI ArcGIS is a powerful geographic information system (GIS) that enables organizations to visualize, analyze, and manage spatial data. For utility operations, ESRI ArcGIS plays a crucial role in asset management by providing real-time mapping, data-driven insights, and integration with enterprise systems. Utilities can leverage ESRI ArcGIS to track asset locations, monitor infrastructure conditions, and facilitate efficient decision-making.

About Oracle Integration Cloud (OIC)

Oracle Integration Cloud is a unified platform to integrate the applications, automate processes, and create applications.

Using Process Builder, the business processes can be rapidly designed, automated, and managed in the cloud. Using integrations connect the applications into a continuous business flow. The integrations can be quickly developed and activated between both the applications that live in the cloud; and the applications still live on premises. The lookups help to match application specific codes between the two applications.

Integration Insights and Stream Analytics helps to simplify and extract business metrics and create custom dashboards.

New Features Summary

For a list of existing features, refer to the *ESRI ArcGIS Integration to Oracle Utilities Work and Asset Cloud Services* documentation on [Oracle Utilities Integrations](#) page on [Oracle Help Center](#).

This integration includes the following new features:

- [Initial Asset Sync from ESRI ArcGIS to WACS](#)
- [Incremental Asset Sync from ESRI ArcGIS to WACS](#)
- [Multiple ESRI Enterprise Server Support](#)
- [Admin Sync](#)

Initial Asset Sync from ESRI ArcGIS to WACS

The initial synchronization of asset and location (feature data) from ESRI ArcGIS to Oracle Utilities Work and Asset Cloud Service is processed through Oracle Integration Cloud, where ESRI ArcGIS data is extracted and transformed into a standardized JSON format, and then consumed by Oracle Utilities Work and Asset Cloud Service to create asset and location records. This initial load is designed for one-time bulk upload during implementation/migration, to create an accurate baseline of ESRI ArcGIS data within Oracle Utilities Work and Asset Cloud Service.

Incremental Asset Sync from ESRI ArcGIS to WACS

This feature supports ongoing, incremental synchronization of asset and location updates from ESRI ArcGIS to Oracle Utilities Work and Asset Cloud Service. Using the same integration framework as the initial synchronization, changes in ESRI ArcGIS features (adds, updates, and deletes) are captured and transmitted to Oracle Utilities Work and Asset Cloud Service. The system identifies and processes only the delta records, ensuring that Oracle Utilities Work and Asset Cloud Service has the latest GIS-sourced information for attributes managed by ESRI ArcGIS.

Multiple ESRI Enterprise Server Support

The productized integration includes support for multiple ESRI ArcGIS services to be specified in the synchronization process. This enables Utilities to consolidate data from various geographic regions or departments, ensures compatibility across Enterprise environments, and supports scalability-allowing a single integration to serve multiple operational needs efficiently.

Admin Sync

The Admin Sync is used to replicate extendable lookups from Oracle Utilities Work and Asset Cloud Service to Oracle Integration Cloud for streamlined access to asset-feature mapping. It includes information on the data filters and properties/fields to be included in the synchronization process.

Known Issues

There are no known issues at the time of this integration release.