Oracle® Utilities Work and Asset Management

Oracle GIS Viewer User Guide

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Oracle GIS Viewer User Guide

The Oracle GIS Viewer provides a means of navigating between the Oracle Utilities Work and Asset Management application and external GIS data. Using the map viewer you can view and manipulate asset and maintenance information based on geographic location.

Note: Before the map viewer can be used, your system administrator must load a GIS map, configure the GIS Setup business rule, and assign user responsibilities. Please refer to the Oracle GIS Viewer Installation and Configuration Guide for further instructions.

Note: Please refer to the user documentation for MapViewer and MapBuilder for instructions on using advanced functionality. For example, you can use the MapBuilder to link a feature to a url.

Map Viewer

Open the map viewer by selecting ESRI GIS Viewer from your home page Actions list. In addition to the menu options, the map viewer window includes the map display, a toolbar consisting of pan and zoom controls, and a theme selections panel that controls which map features display.

You can also open the viewer by selecting View GIS Map or Print GIS Map from one of the module that is integrated with GIS.

Tools

Click on the icons to select the following map image controls from the Tools component. Hover the mouse over the tool icons to reveal their functionality.

Drag Map - Shift the map in the desired direction. Click the tool then click and hold the mouse over the map while moving it in the desired direction.

Zoom Rectangle - Allows you to draw a rectangular area on the map to which the map zooms in after the area is drawn.

Select/Select Rectangle/Select Circle - Use the regular select too to select one object on the map. You can also use the rectangle or circle to draw an area on the map to select objects within that area. You must have at least one theme checked to select objects on the map. When objects are selected they are highlighted in green.

Zoom In - Produces a larger scale map view.

Zoom Out - Produces a smaller scale map view.

Zoom Selected - Zoom into the selected area on the map.

Clear Selected - Deselect all of the objects on the map.

Refresh Map - Redraw the map.

Print Map - Formats the map for printing and sends directly to your printer.

Search - Selecting the Search icon opens a dialogue box allowing you to enter search criteria. You can search by Theme, Field Name and/or Value. Execute the search and the system finds and selects objects on the map matching your criteria.

View Attributes - Displays a summarized list of the selected objects. Use this tool to see which assets are selected without leaving the GIS screen. Note that you can scroll down to see more items in the list.

Previous Zoom - Returns map to the last zoom area.

Previous Center - Returns map to the last position where it was centered.

Fit Map - Resizes the entire map component to fit your screen.

Smaller Map - Resizes entire map component to a smaller area.

Themes

Select themes to display elements on the map. Each type of theme is represented by a different symbol or color. Click objects on the map to display attributes of the object.

Select and deselect check boxes for themes to display or remove them from the map. The first column is checked to display the object, while the second column is checked to select the objects.

Select or deselect the first box in each column to select or deselect all.

Parcels - Parcel numbers are continuously displayed on the map. In the example above they appear as an 8 digit number starting with a 7.

Mains - Mains are represented by the solid line connecting values in the example.

Laterals - Laterals are represented by the short lines crossing the main lines.

Manholes - Manholes are represented by a solid dot. In the example above C-1501 at the top of the image is a manhole.

Service Points - Service points are represented by a triangle.

Overview

The Overview component shows a thumbnail representation of the overall map. You can move the selected area on the overview to reposition the map.

Accessing Maps from Records

The main link to the GIS Viewer is located on the home page, however, the viewer is best used when it is launched from an Asset, Work Order, Work Order Task, PM Master, or Service Request record. Open the appropriate record then select View GIS Map from the Actions list.

You can also search for multiple Assets then launch the GIS Viewer from the results of search screen. The resulting map will show all of the Assets from the results list.

Search for assets then select View GIS Map from the Actions list on the results of search screen to launch the map showing all of the assets resulting from the search.

From the Service Request record, select View Map (Tax ID) to view a map of the customer's address on the service request.

Use similar steps to view maps from Work Order, PM Master and Service Request. The option to Print from these modules in the same manner is also available from these modules.

Viewing Records for Map Objects

Select from the Menu to see which actions are available for each item. Select one or multiple objects on the map then click View for Asset, PM Master, Service Request, Work Order or Work Request and the system opens a results of search screen in the designated module listing all of the related records referencing the selected objects.

The objects must already be assigned to GIS features through your system configuration before they can be viewed in this way. Please contact your system administrator for more information.

Creating Records from Map Objects

To create new PM Masters, Service Requests, Work Orders or Work Requests you can select one or multiple objects on the map then click the desired menu item and select Create.

When you create new records from GIS the system uses the Default Name in the user profile of the logged on user to populate the Dispatcher, Requestor, and Initiator fields on the Service REquest, Work Order and Work Request, respectively.

Work Request - The system creates one record for the selected map object. You can only create one Work Request at a time.

Service Request - The system creates one Service Request record with every selected map object listed in the Assets view.

Work Order - When you select Create (multi tasks) the system creates one Work Order record with a separate task for each selected map object. Selecting Create (single task) creates one Work Order record with one task listing all selected assets in the Asset List.

Recording Assets

When you launch the GIS viewer from a Service Request record, you can select one or more Assets on the map the select Record Assets from the Menu under Service Request. The system adds the selected assets to the Service Request that you were viewing when you launched the viewer.

Thematic Maps

Thematic maps are designed to provide a visual representation of various additional aspects critical to the management of assets such as inspection and warranty information. Select one of the Thematic Map options to display an additional markup on the map view along with a legend to describe the meaning of colors or symbols.

Remove All - Clears your thematic map selections.

Inspection Status - The system color codes assets according to the status of a current inspection. This information is derived from the Asset Inspection module.

Inspection Score - The system color codes assets according to their most recent inspection score. This information is derived from the Asset Class module Condition Assessment view.

Warranty Status - The system indicates the status of warranties for the assets. This information is derived from the Warranty module.

Custom

Customized settings can be added to the GIS Viewer and access through this link on the Actions list.

This feature requires that at least one of theme's base tables have a field containing a valid url (e.g. http://www.google.com). Note that the theme does not have to be a Oracle Utilities Work and Asset Management asset theme. In mapbuilder, this field needs to be added to the "Info Columns" section for the theme with a display name of "Link".

To test, open the viewer from Oracle Utilities Work and Asset Management and then select a single item in the theme that is configured with the "Link" field. Click "Open Link" under the "Custom" menu. If there is a valid url in the link field, a new IE window will be opened to that url. You can see the value in the link field with the "View Attribute" tool.

How to Add the Open Link Feature

1. **Alter theme table to add new column**
2. **Use Mapbuilder to Add field to theme naming as note indicates above**
3. **Populate new column with URL data**