

## NEW FEATURES IN ORACLE MAPVIEWER 12.1.3

### MAPVIEWER CAPABILITIES

- Incorporate rich map visualization in business applications
- Mashup content from various sources
- Highly interactive user experience
- Mobile support
- Spatial data editing capabilities
- Included in various Oracle products and applications

### 12.1.3 ENHANCEMENTS FOCUS

- Greater ease-of-use with features such as map cache auto update and a web version of MapBuilder
- API flexibility so users can define their own user defined 3<sup>rd</sup> party map tile layer, support for 3<sup>rd</sup> party geoJSON files, and more
- Improved user interactivity with features such as API-enabled MapZoom and multiple feature selection support

A detailed listing of Oracle MapViewer features can be found in the Oracle MapViewer 12.1.3 User Guide (E29624-01).

*MapViewer is an HTML5-based mashup component of Oracle Fusion Middleware that allows developers who are familiar with SQL and JavaScript to incorporate a wide variety of map styles and spatial analysis into business applications. Its mapping engine can directly source data from external web services such as WMS, WFS, GeoRSS streams, and WMTS. New features in the 12.1.3 release provide greater *ease-of-use*, *API flexibility*, and *improved user interactivity*.*

### MAPVIEWER CORE

#### Standalone Installer

MapViewer now has a standalone installer. If you have an existing MapViewer Release 11g installation, and if you want to use its MapViewer configuration on Oracle Fusion Middleware Release 12.1.3, see Section 1.5 of the Oracle MapViewer 12.1 User Guide (E29624-01).

#### OpenGIS Consortium Web Map Tile Service Support

- A web map tile service (WMTS) server has been added into MapViewer. This server is Open Geospatial Consortium WMTS 1.0 compliant and provides access to tile servers that support this standard.

#### Map Tile Storage Options

There are three new options for map tile caching:

- XYZ scheme – this is a commonly accepted standard used by popular online map providers, such as OpenStreet Map and others, and makes it easier to use MapViewer with other JavaScript libraries.
- Database tables – tiles can be stored in an Oracle database table
- Direct streaming (no cache) – if the tile contents frequently change or if you do not want to store the image tiles, you can stream the tiles directly without storing them.

#### Map Cache Auto Update

- Periodically updates cached map tiles when the data in base tables are changed by an update, insert, or delete operation, because such changes may affect the shape, annotation, or choice of rendering style for the already cached map tiles. This removes the need for manual tile cache management.

#### Local Tiles for Offline/Mobile Use

- Extract tiles from MapViewer or a 3<sup>rd</sup> party (that supports the XYZ tile scheme) that can be used in offline mode or on a mobile device.

## Resources

### Oracle Technology Network:

[www.oracle.com/technetwork/middleware/mapviewer/](http://www.oracle.com/technetwork/middleware/mapviewer/)

- Documentation and white papers
- Software, sample code
- Training
- Partners

### Community:

[www.oracle.com/technetwork/data-base/options/spatialandgraph/community](http://www.oracle.com/technetwork/data-base/options/spatialandgraph/community)

- Social media groups
- Forums
- Blogs

## Related products

- **Oracle Fusion Middleware products**
- **Oracle Business Intelligence Enterprise Edition**
- **Oracle Spatial and Graph option**

## Support for Linear Referencing System (LRS) Themes

- Support is added for LRS themes. An LRS theme is a special kind of MapViewer theme useful for visualizing features defined using the linear referencing system of Oracle Spatial and Graph.

## ORACLE MAPS (HTML5-based API)

### User Defined Data Sources/API Flexibility

- Users can now define their own user-defined third party map tile layer using a plugin interface
- Support for 3<sup>rd</sup> party geoJSON files
- JSONP support when loading geoJSON data from a remote server
- Support user-defined map projection functions

### Style Enhancements

- Server-side heat map support
- Dynamic thematic mapping based on runtime result set
- Support line color and thickness as determined by query result set

### Improved User Interactivity

- Display a 3<sup>rd</sup> party info window
- Multiple feature selection support
- API-enabled MapZoom to control map zoom
- API-enabled DoubleClick to control double click zoom

## MAP BUILDER

- Web version of Map Builder that is accessed using the MapViewer web console
- More external user validation
- Multiple data preview – preview different types of data like tile layer, base map, predefined themes, or JDBC themes

## Component of Oracle Fusion Middleware

MapViewer takes advantage of all the features of Oracle Fusion Middleware such as security, clustering, performance, scalability, and administration. MapViewer is the only mapping tool that supports the entire Oracle technology stack.



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