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S P A T I A L

May 2011
Oracle Spatial User Conference



Oracle Spatial User Conference

May 19, 2011

Ronald Reagan Building and International Trade Center
Washington, DC USA



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MapViewer: New Features for Developers



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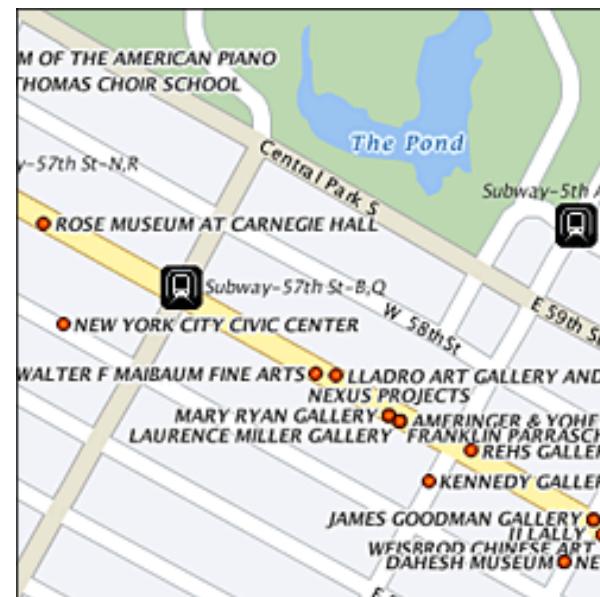
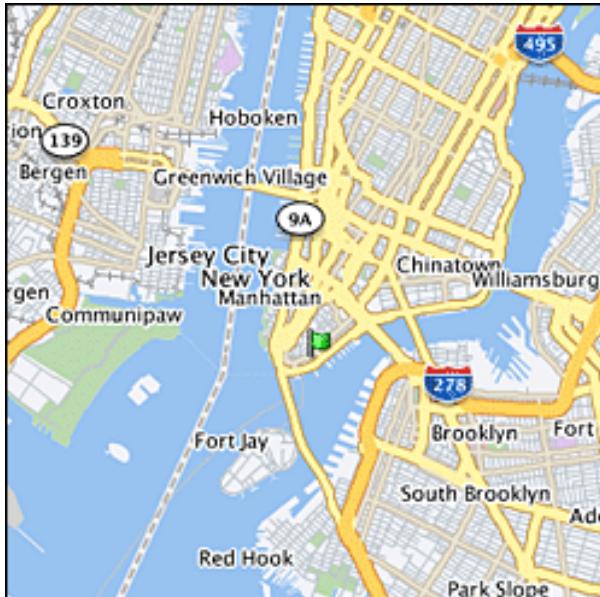
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Agenda

- „ Overview of MapViewer
- „ Some new features for developers
- „ Demonstration
- „ Overview of features under consideration
- „ Demonstration
- „ Q&A

Oracle MapViewer

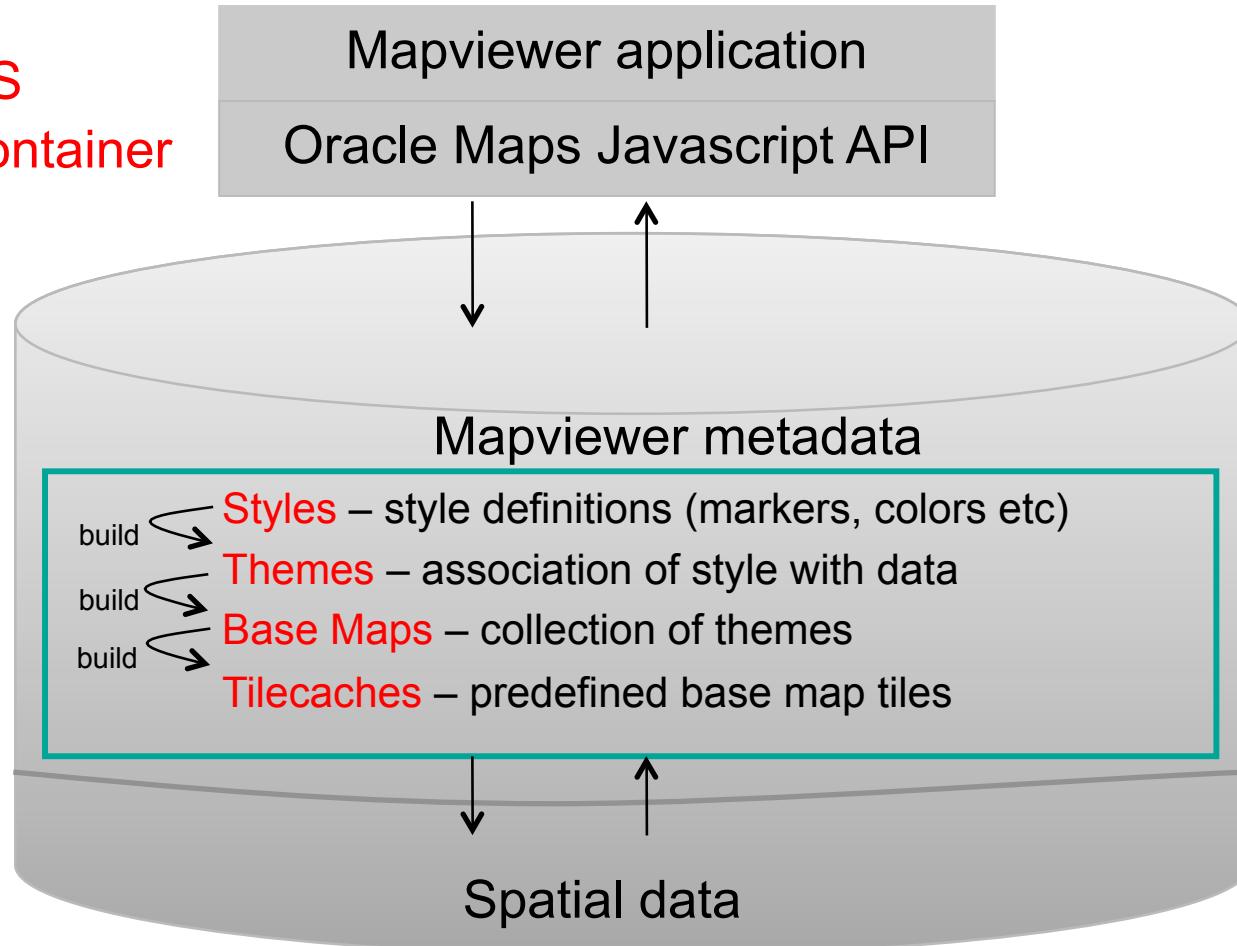
- Bundled feature of all Oracle app server editions
- Renders data from Oracle Spatial (also WMS, WFS, .shp)
- “Oracle Maps” JavaScript API for slippymaps
- XML API for request/response mapping



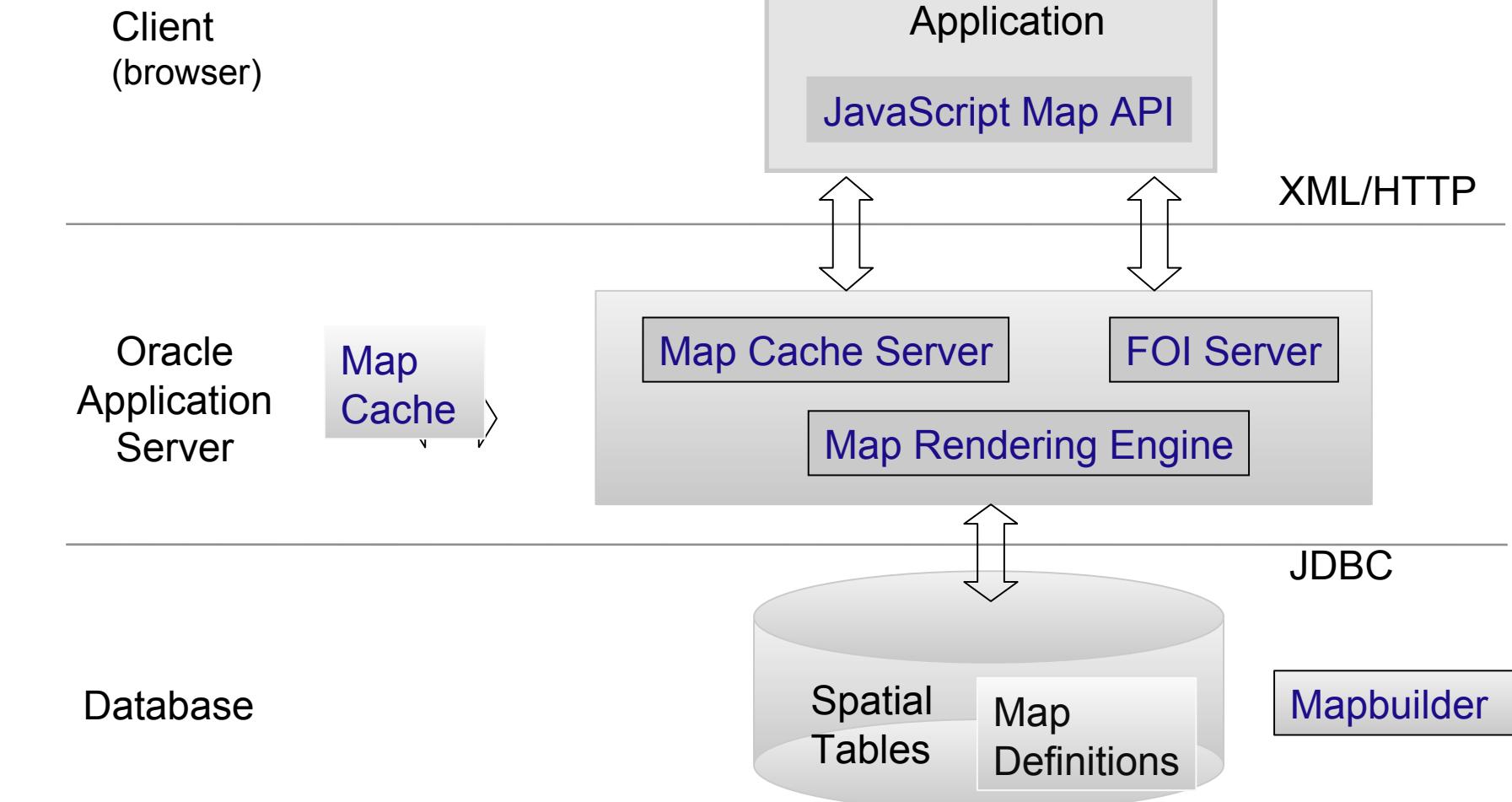
Oracle MapViewer

OAS, WLS
or other J2EE container

Oracle
Database



MapViewer Architecture



Mapviewer facilitates different options

- For content

- .Local (Oracle database)
- .Online web services
- .Hybrid (local database + online content)

- For development

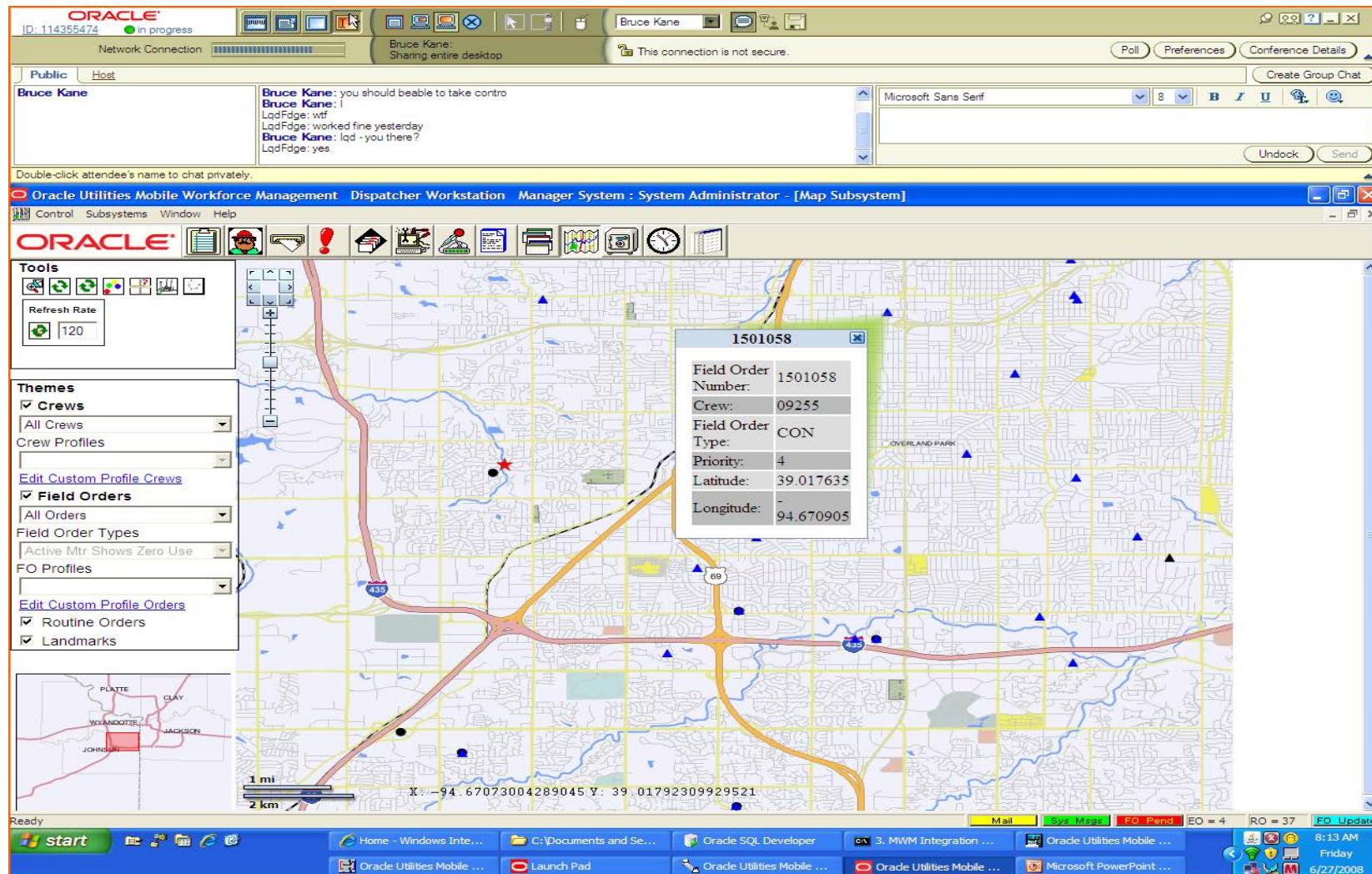
- .Java or javascript code embedded in application
- .Using ADF Faces (<dvt:map>)



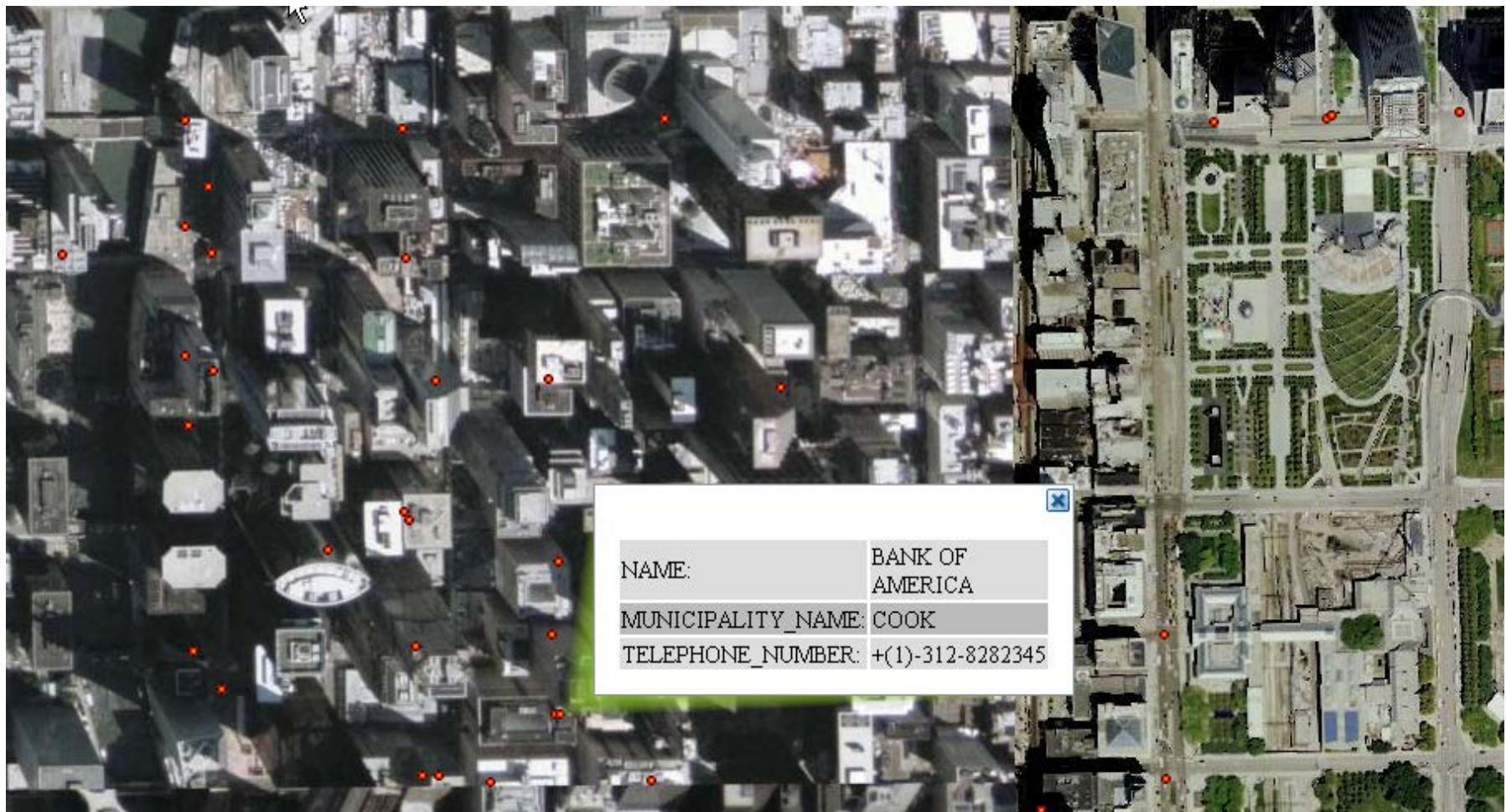
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MapViewer renders database content



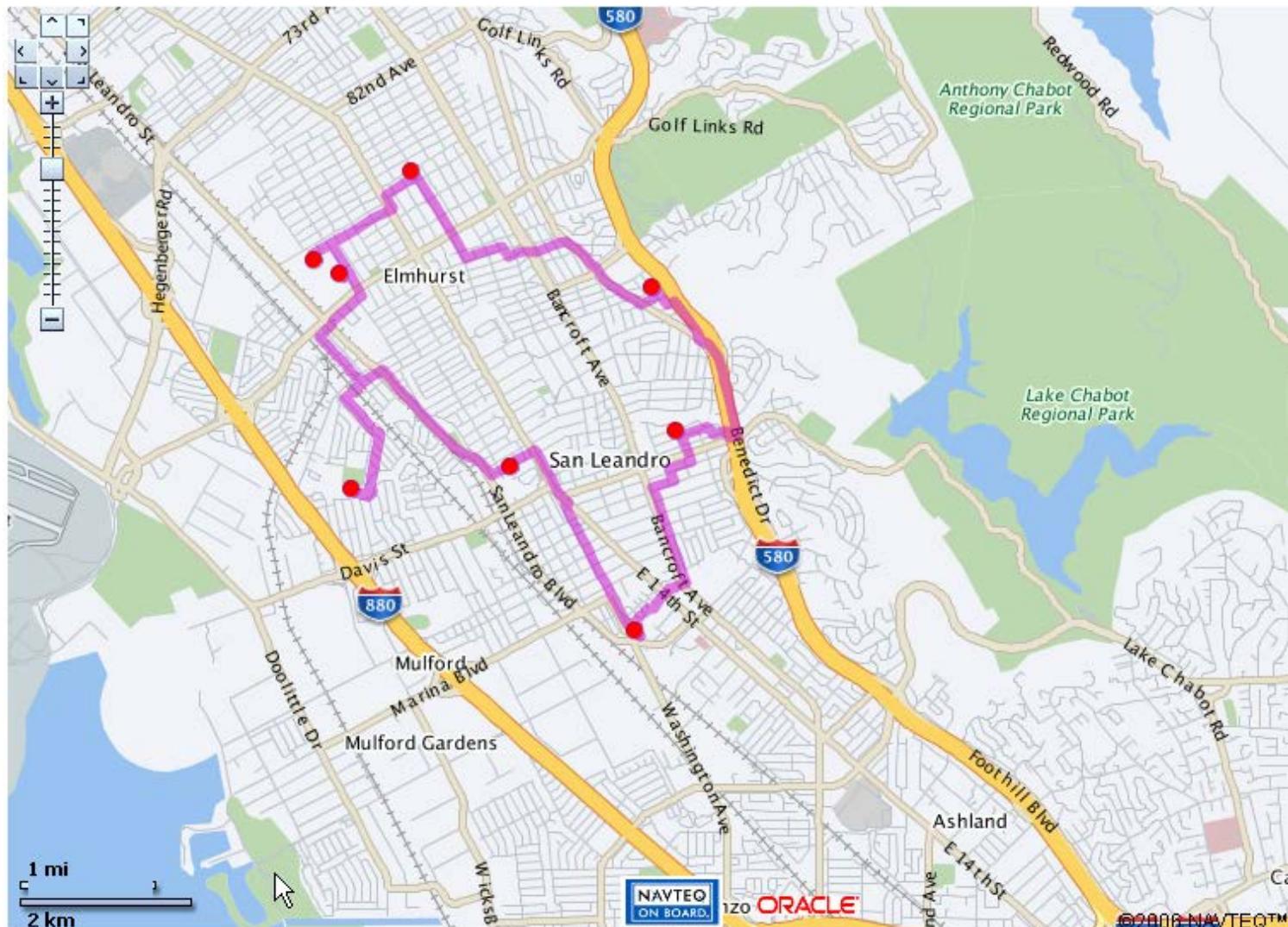
MapViewer renders geospatial imagery



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And geospatial networks



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And local content on 3rd party background maps

SF 311 Incident map

Configure Map

Incident Type: Show All Requests

Incidents From: 11/11/2009 To: 11/12/2009

Update Map

About

This demonstration shows a live feed from the [San Francisco 311](#) incident reporting system plotted on the city by location incident. The XML data feed produced by the **Oracle Service Bus** is consumed using JAXB and then bound into the **ADF DVT Map** component using **ADF Data Binding**.

Number of incidents plotted: 226

Download the source code

View the XML Data

Map Options:
Road map, Hybrid, Shaded, Valley, 1,000 ft, 200 m

Map Credits:
Copyright © 1999, 2009, Oracle and/or its affiliates. All rights reserved. - Map Data © 2008 Naveq. UseOracleMaps UseGoogleMaps

Incident Report

Street and Sidewalk Cleaning
At: EDDY ST and LEAVENWORTH ST
On: 2009-11-11 15:46:50

It lets users display and interact with BI content

Oracle BI Interactive Dashboards - Mozilla Firefox

Slot ID	Cash In	MinLoss	Number of Players
60122	\$25,095	\$3,400	14
60099	\$14,085	\$0,005	23
60120	\$12,200	\$5,275	15
60119	\$11,760	\$900	10
60120	\$11,540	\$5,710	16
60110	\$10,940	\$1,445	13
60109	\$10,500	\$650	11
60108	\$9,415	\$0,005	8
60105	\$8,940	\$110	7
60103	\$7,990	\$1,000	10
61006	\$7,990	\$1,540	7
60101	\$7,900	\$1,100	7
60100	\$7,815	\$410	7
60102	\$7,655	\$800	7
60109	\$7,450	\$1,200	9
60098	\$6,645	\$1,290	6
60125	\$4,400	\$940	5
60098	\$4,250	\$1,040	7
60105	\$3,990	\$470	7
60127	\$2,655	\$605	9
60116	\$2,210	\$600	7
60110	\$1,590	\$325	12

Drops by State Dropped Calls

State	Dropped Calls
CALIFORNIA	5,000
IDAHO	29,727
NEW MEXICO	136,086
WYOMING	171,107
ARIZONA	191,223
NEVADA	192,079
WASHINGTON	275,323
UTAH	314,318
OREGON	315,191
Grand Total	1,630,054

Oracle BI Interactive Dashboards - Windows Internet Explorer

Offense Desc	PD Desc	Location	Count
GRAND LARCENY	LARCENY,GRAND FROM PERSON,INCL	HUNTINGTON ST	1
GRAND LARCENY	LARCENY,GRAND FROM AUTO	HUNTINGTON ST	1
GRAND LARCENY	LARCENY,GRAND FROM BUILDING,INCL	100 BROAD AV N	1
GRAND LARCENY	LARCENY,GRAND FROM OPEN AREAS,	100 BROAD AV N	1
GRAND LARCENY	LARCENY,GRAND FROM ACQURING LOG	100 BROAD AV N	1

ORACLE Interactive Dashboards - Dashboard

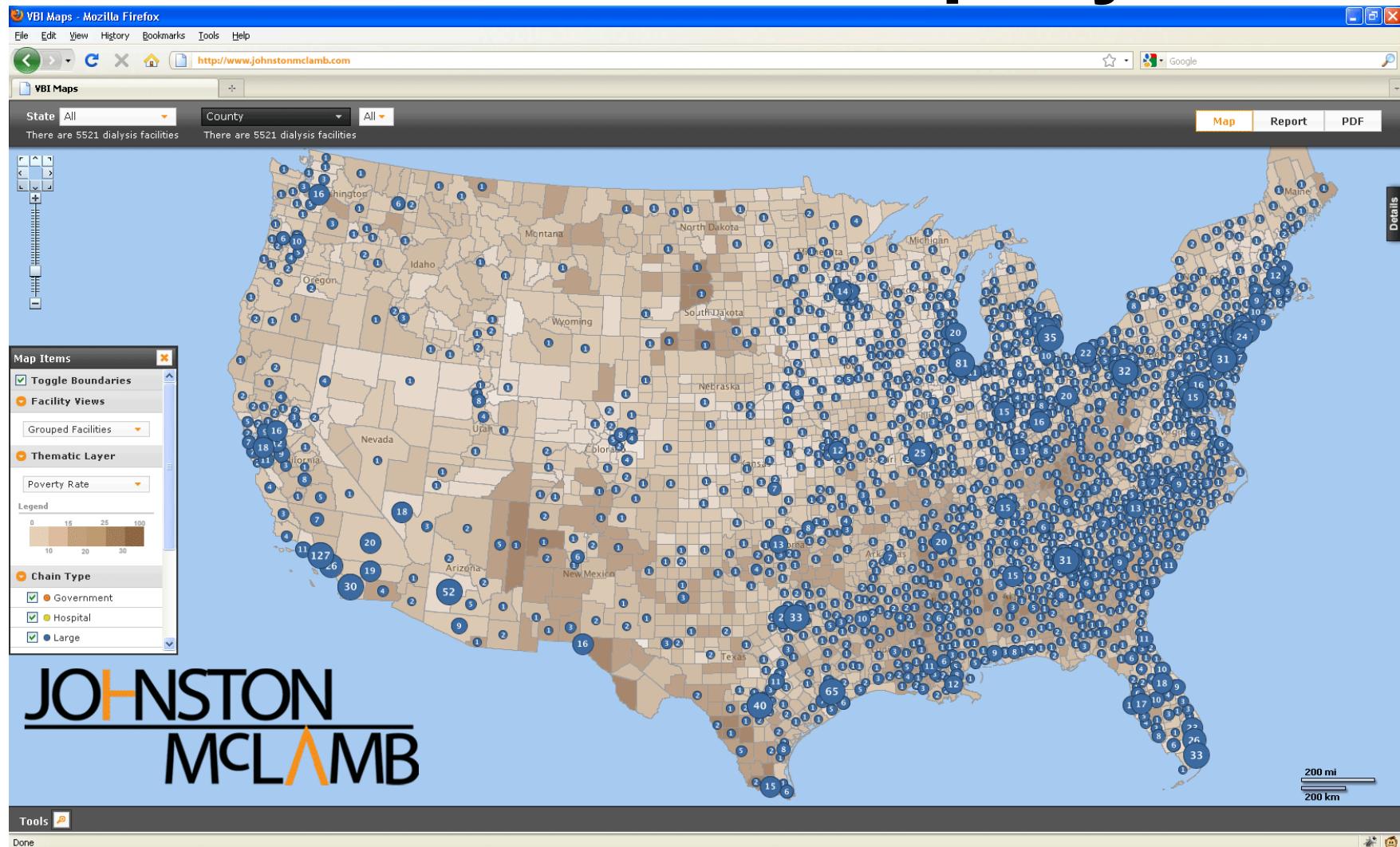
Region	PD Desc	Complaint Count
Central	GRAND LARCENY	2 15 9 26
Central	GRAND LARCENY	11 43 35 89
Central	GRAND LARCENY	1 6 4 11
Central	GRAND LARCENY	4 4 6



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MapViewer enables custom map styles



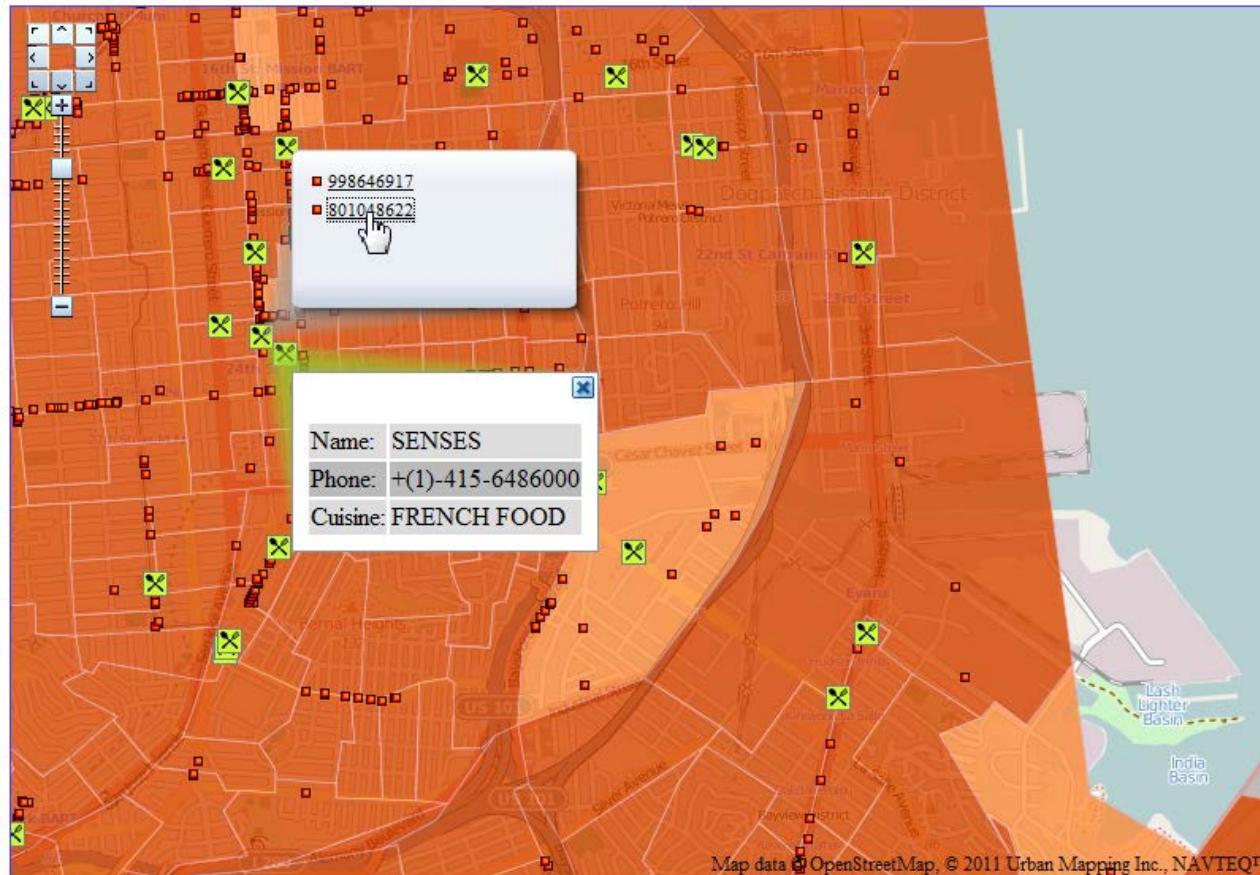
Some new features

- „ FOI aggregation
- „ Opacity for layers, themes, FOIs
- „ External tile layers via metadata
- „ Support for WMS with Authentication
- „ MVFoiGroup (set visibility, opacity as a group)

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FOI aggregation

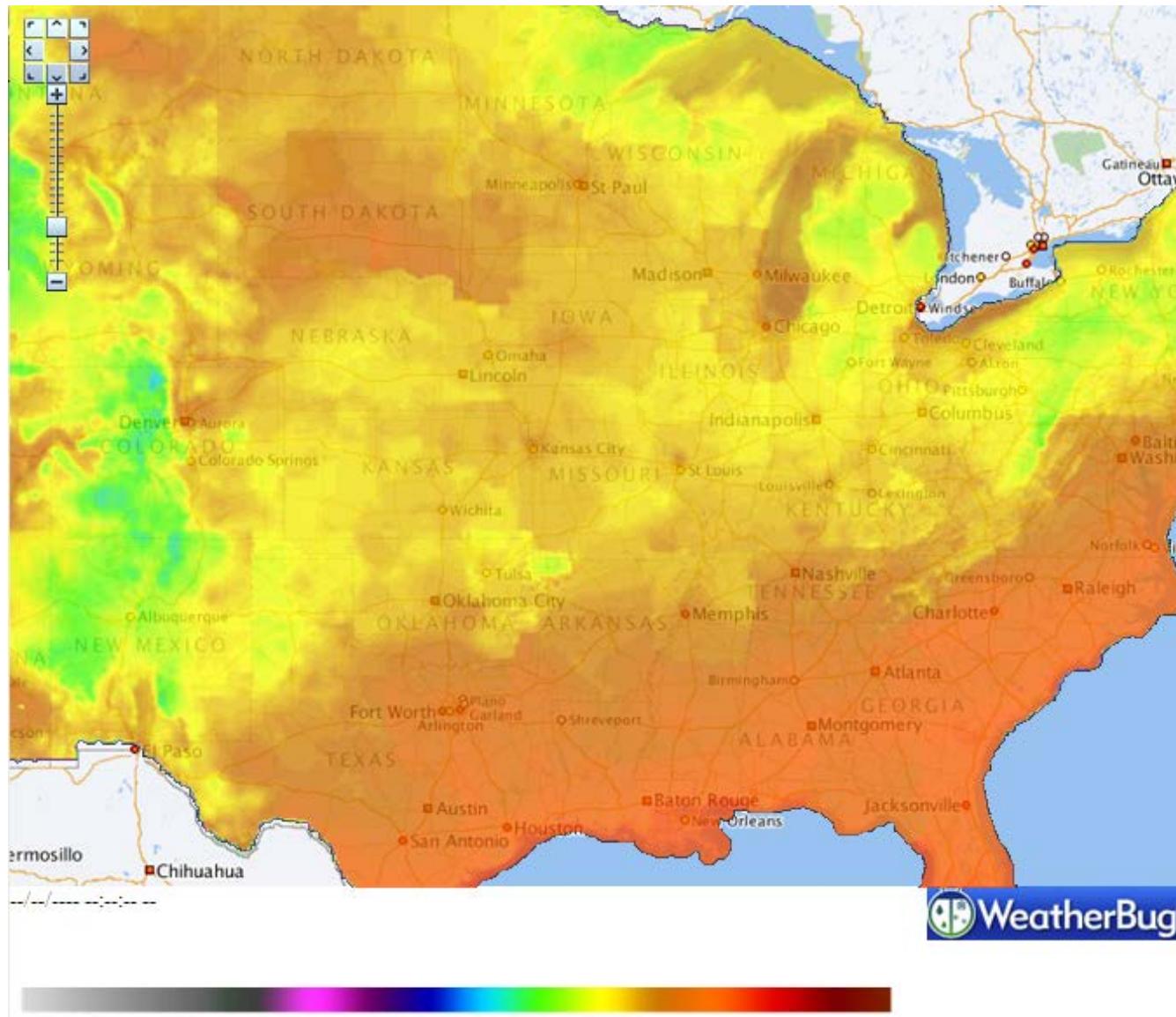


Multiple FOIs at the same location are displayed with a specified marker. On hover a hyperlinked list of IDs is shown. Clicking on an ID brings up FOI info-window.

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Theme or FOI Opacity



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Background maps via metadata

ORACLE® 11g FUSION MIDDLEWARE MAPVIEWER

MapViewer

Location, Location, Location

Manage MapViewer | Manage Map Tile Layers

• Create
• Manage

TIP You must first specify where the map tile images them.

Select type of map source:

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GUI option to select map source in MapViewer

Enter key obtained from Google Maps API
<http://code.google.com/apis/maps/signup.html>

Map tile layer for external map source

Name: OBIEE_GOOGLE_MAP
This name will be automatically prefixed with datasrc name.

Data Source: OBIEE_NAVTEQ_Sample
MapViewer data source; for storing map tile layer configurations

Select and Add / Delete

Select name	value
<input type="radio"/> lib_url	http://maps.google.com/maps?file=a
<input type="radio"/> key	ABQIAAAAPnwEhDNdNs3kx2nW2E
<input type="radio"/> map_type_values	MVGoogleTileLayer.MAP_TYPE_RC
<input type="radio"/> map_type_names	Road;Hybrid;Shaded;Satellite
<input type="radio"/> version	2

SRID: 3785
Maps will be displayed in this SRID

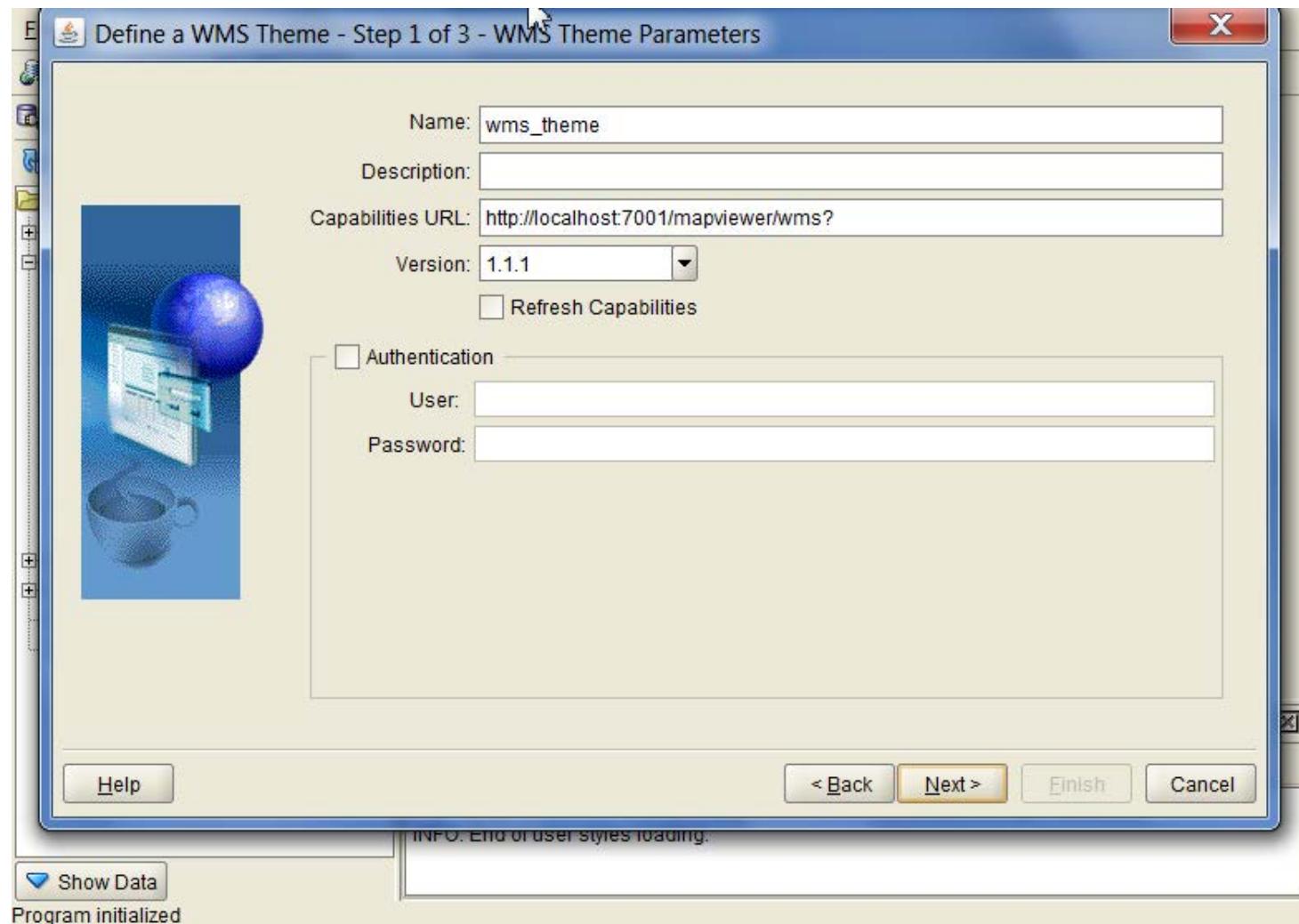
Min X: -2.0037508E7
Max X: 2.0037508E7
Min Y: -2.0037508E7
Max Y: 2.0037508E7

Zoom Levels: 19

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WMS with Authentication





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D E M O N S T R A T I O N



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Features under consideration

- SVG for markers, line, and area styles
- Support for additional spatial data sources
- Enhanced map manipulation

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Q & A

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