



S P A T I A L

May 2012
Oracle Spatial User Conference



Oracle Spatial User Conference

May 23, 2012
Ronald Reagan Building and International Trade Center
Washington, DC USA



Jayant Sharma

Director, Product
Management



Oracle MapViewer in Applications and Tools



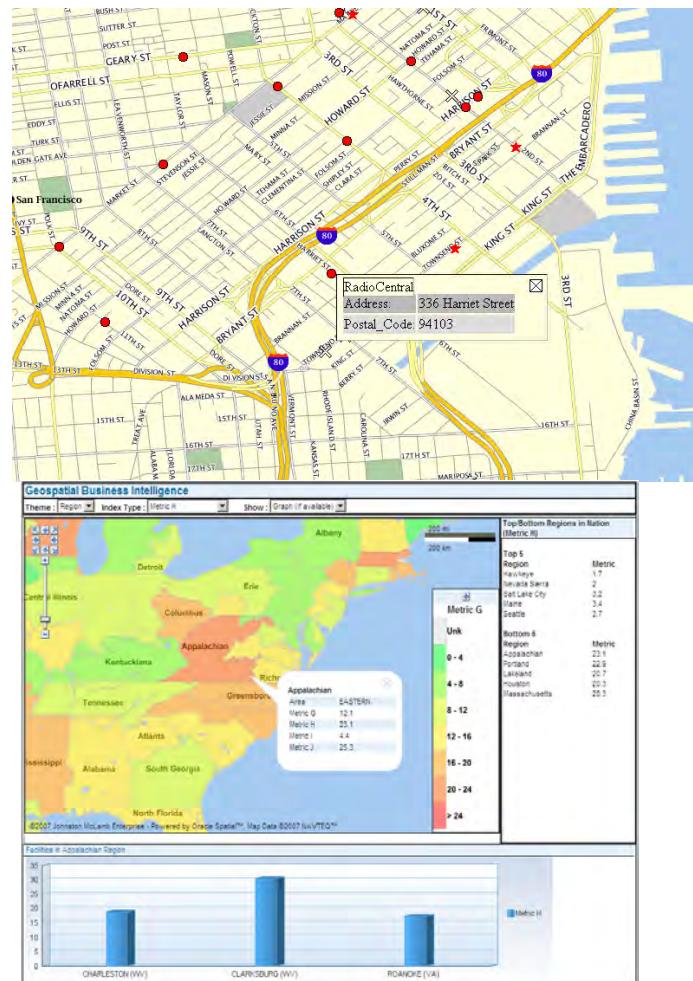
Program Agenda

- MapViewer Overview
- Maps in Applications
- Maps and Development Tools

Oracle MapViewer

A standard feature of all Oracle Fusion Middleware editions

- Standards-based J2EE and Java Server Faces component
 - XML/HTTP, Java/AJAX
- Publish spatial data to the web
- Map and feature cache provides smooth scroll (pan, zoom)
- Rich Java, XML, JavaScript APIs provide client side interactivity
- Centrally managed map definitions, symbology, and styling rules





Map-Enriched Business Applications

Geospatial Operations and Workforce Management - Mozilla Firefox

File Edit View Bookmarks Tools Help

http://208.224.173.7:7777/adchr/locint.jsp

Latest Headlines Johnston McLamb Int...

Geospatial Operations and Workforce Management

Facility Type: Museum On right click show: Police within 2 mi. radius Clear Selections

Search Results Driving Directions Remove Routes

Directions to Navy Museum

- Start out on 7TH ST SE (Going South) (0.7 miles) (1.8 minutes)
- Turn RIGHT onto M ST SE (Going West) (0.1 miles) (0.2 minutes)
- Turn LEFT onto ISAAC HULL AVE SE (Going South) (0.2 miles) (0.6 minutes)
- Turn LEFT onto SICARD ST SE (Going East) (0.1 miles) (0.2 minutes)

Directions to Marine Corps Museum

- Start out on 7TH ST SE (Going South) (0.6 miles) (1.4 minutes)
- Turn LEFT onto VIRGINIA AVE SE (Going East) (0.0 miles) (0.1 minutes)
- Stay STRAIGHT to go onto RAMP (Going East) (0.0 miles) (0.1 minutes)
- Turn RIGHT onto 8TH ST SE (Going South) (0.0 miles) (0.0 minutes)

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Last Name First Name Job Class Job Category

Douglas	Robert	Carrier	FT
Paul	Joseph	Clerk	FT
Hopkins	Marie	Clerk	FT
Lindsey	Maria	Clerk	FT
Altiris	Melvin	Clerk	FT
Viles	Edward	Mail Handler	FT
Hairton	Charles	Clerk	FT
Williams	Irene	Clerk	FT
Garnett	Eugenia	Clerk	FT
Wellington	Virginia	Clerk	FT
Stringfellow	Juan	Clerk	FT
Brown	Anthony	Clerk	FT
Thomas	Shirley	Clerk	FT

Done

Geospatial Operations and Complement Management

Facility Type: School On right click show: Police within 2 mi. radius Clear Selections

Search Results Driving Directions

ST PETER'S INTERPARISH SCHOOL 422 3RD ST SE WASHINGTON, DISTRICT OF COLUMBI 20003

PEABODY ELEMENTARY SCHOOL 425 C ST NE WASHINGTON, DISTRICT OF COLUMBI 20002

BRENT ELEMENTARY & MAGNET SC 330 D ST SE WASHINGTON, DISTRICT OF COLUMBI 20003

VAN IESS ELEMENTARY SCHOOL 1150 5TH ST SE WASHINGTON, DISTRICT OF COLUMBI 20003

HOWARD ROAD ACADEMY CHARTER 701 HOWARD RD SE WASHINGTON, DISTRICT OF COLUMBI 20020

HINE JUNIOR HIGH SCHOOL 335 8TH ST SE WASHINGTON, DISTRICT OF COLUMBI 20003

KEY ACADEMY 770 M ST SE WASHINGTON, DISTRICT OF COLUMBI 20003

EMERSON PREPARATORY SCHOOL Employee counts by class/category

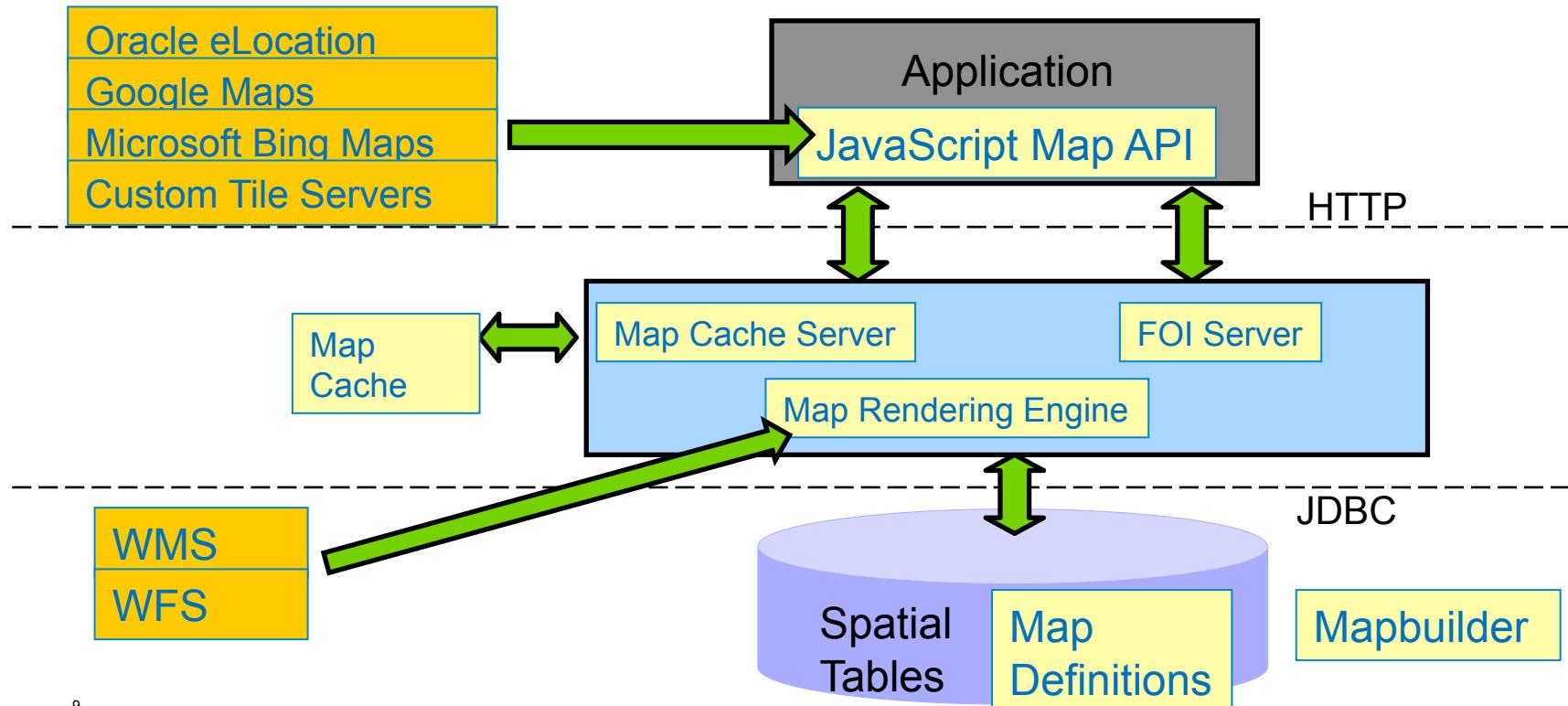
Class	Casual	Admin	FT	PT Flexible	Executive	PT Regular	Facilities	Relief	Maintenance	Temp	Temp Emerg	Nurse	Teacher
P	2	0	40	3	2	0	0	26	1	0	0	0	12
H	0	0	0	0	0	0	0	0	0	0	0	0	0
U	0	0	0	0	0	0	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0
M	0	0	0	0	0	0	0	0	0	0	0	0	0
R	0	0	0	0	0	0	0	0	0	0	0	0	0
L	0	0	0	0	0	0	0	0	0	0	0	0	0
J	0	0	0	0	0	0	0	0	0	0	0	0	0

Total 71 Total 73

Longitude, Latitude : -77.015, 38.914

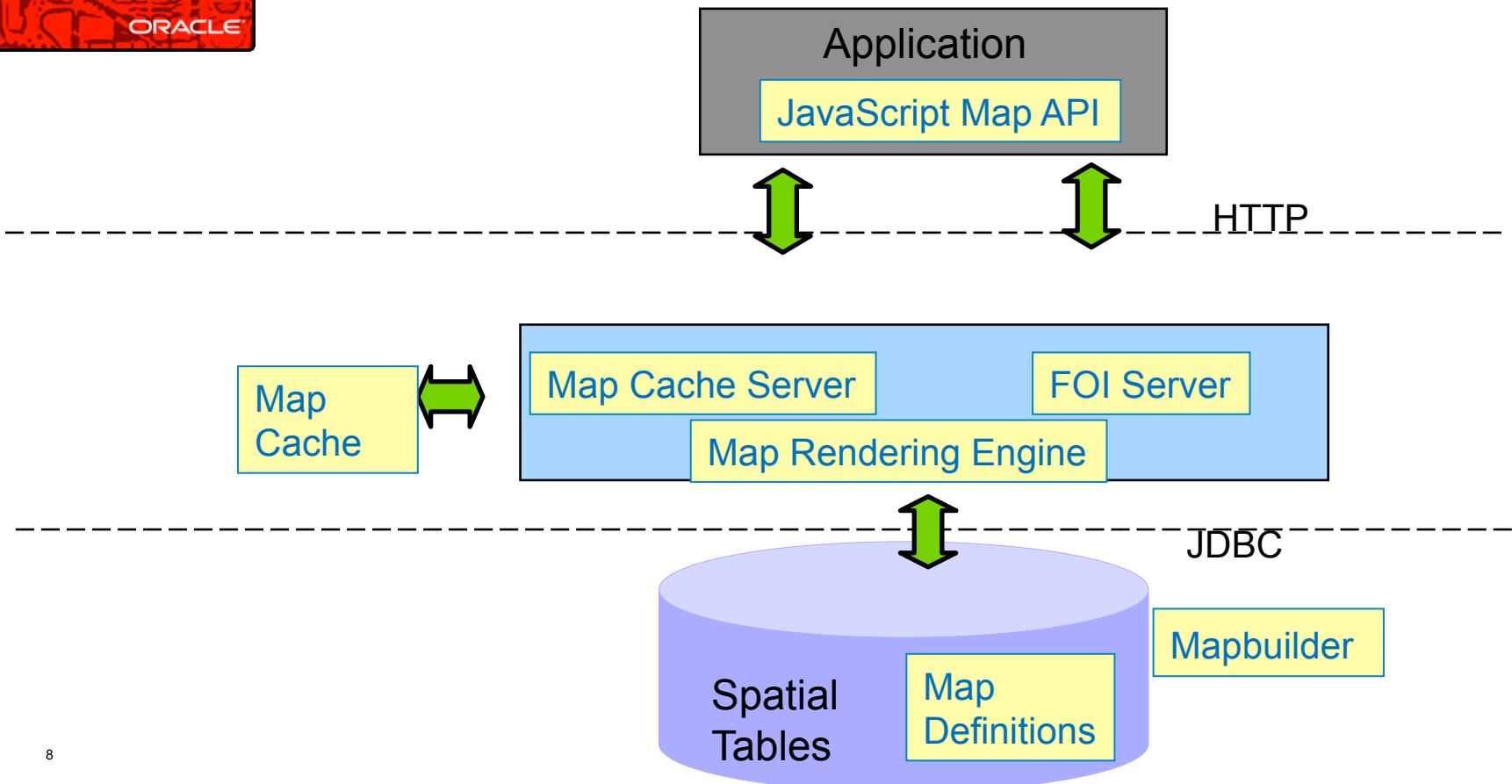
Geocoding
Spatial searches
Routing
Mapping

Integrating External Data Sources





MapViewer Architecture



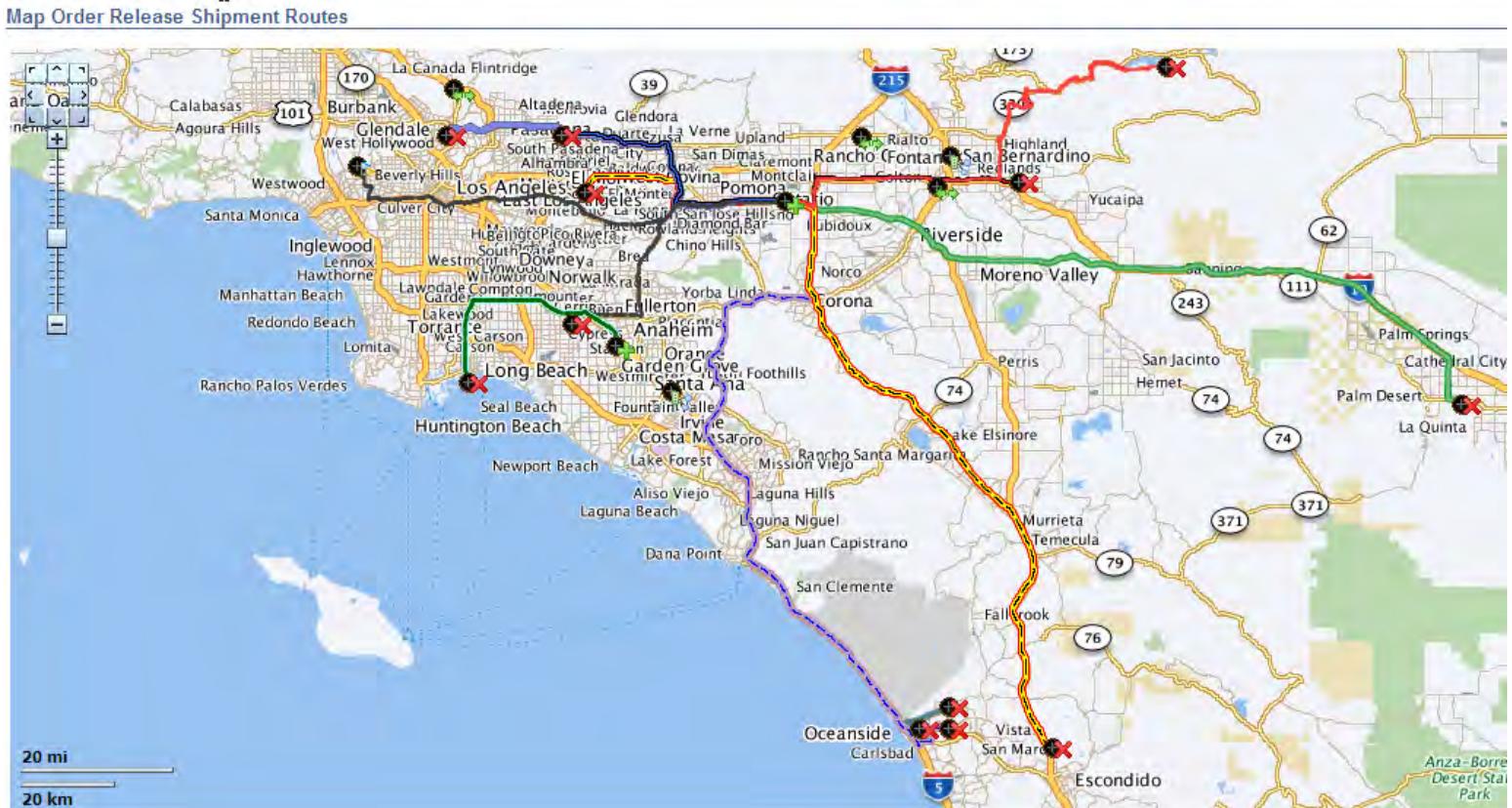


MapViewer in applications & tools

- Enterprise Applications
 - Transportation
 - Utilities
 - Comms
 - Healthcare
- Development Tools
 - JDeveloper
 - APEX
 - WebCenter
 - SQLDeveloper
- Business Intelligence/Analytics
 - OBIEE
 - CEP



Oracle Transportation Manager



Utilities Mobile Workforce Mgmt

Oracle Utilities Mobile Workforce Management Dispatcher Workstation Manager System : System Administrator

Control Subsystems Actions View Window Help

ORACLE

Gantt Chart

Jun 27, 2008

Crew Name

Crew	Crew Name
Central Field Services	Douglas Counsellor - 0
02336	John Jones - 0
09999	
Central Meter Services	Michael Nolan - 0
06631	Thomas Keylon - 0
09017	
09255	Lyon David - 0
Trouble / Street Light	
1001	Jon Jeffrey - 0
1003	Ted Thompson - 0
1006	Pat Downey - 0

Friday

08 09 10 11 12 13 14 15 16 17

CUT CON GEA3 WHRR SLOUT

All Orders View - 41 orders (1)

Priority Icon	Order Description	Tracking Status Abbr	Crew	Service Address	Customer Name
U	Cut for Non-Pay	Assign	1001	5831 EL MONTE STApt ...	TILL ELIJAH
U	Cut for Non-Pay	Assign	1001	10511 W 97TH TERAp ...	KUHBANDER LORY
U	Cut for Non-Pay	Assign	1001	16007 W 144TH STApt ...	BUEHLER-MAY DR...
5	Repair Order	Assign	1003	9701 W 103RD TER.	JONES INTERCABLE
5	Repair Order	Assign	1003	5705 W 153RD TER.	ASE GROUP INC
5	Repair Order	Assign	1003	5100 FOXRIDGE DR A...	WIMSETT SARAH
R	Repair Street ...	Assign	1003	194 MANOR ROAD	THOMAS FAIRLANE
R	Repair Street ...	Assign	1005	11 VICTORY LANE	MIKE GAFFNEY
R	Repair Street ...	Assign	1005	1832 LIBERY LANE	CHRISTY DEVOE
R	Repair Street ...	Assign	1006	8832 ENOTA DRIVE	SARAH JULIUS
R	Repair Street ...	Assign	1006	142 VICTORY LANE	MIKE GAFFNEY
R	Repair Street ...	Assign	1006	182 LIBERY LANE	CHRISTY DEVOE
	Pole Fire	Unassn		3998 APPLE LANE	

Dispatch Reallocate Help

1 mi 2 km X: -96.785455184 Y: 39.859400281337145

Ready

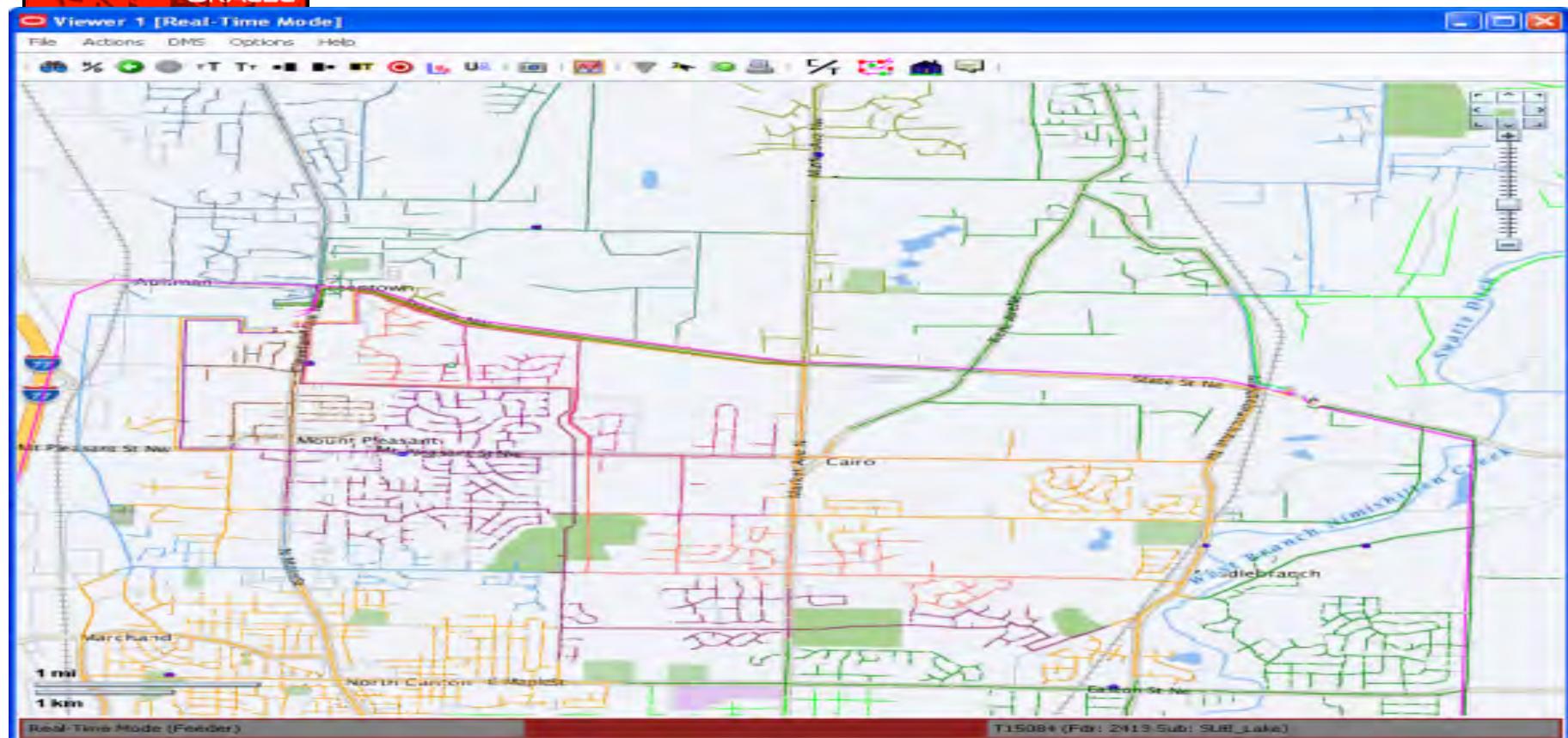
start Home - Windows Int... C:\Documents and Se... Oracle SQL Developer 3. MWM Integration ... Oracle Utilities Mobile ... Mail Sys Maps EO Pend EO = 4 RO = 37 EO Update

12 Oracle Utilities Mobile ... Launch Pad Oracle Utilities Mobile ... Oracle Utilities Mobile ...

8:10 AM Friday 6/27/2008



Utilities Network Mgmt System



Utilities Work & Asset Management

Thematic Maps showing analytic information. This represents the current state of the Main Line infrastructure.

Oracle Utilities Work and Asset Management 8.1.7.15

SYNERGEN | Plant 01 | Logout

Home

Tools

Menu

- Asset
- PM Master
- Service Request
- Work Order
- Work Request
- Thematic Maps
- Remove All
- Inspection Status
- Inspection Score
- Help

Map

Themes

- Parcels
- Mains
- Laterals
- Manholes
- Service Point

Overview

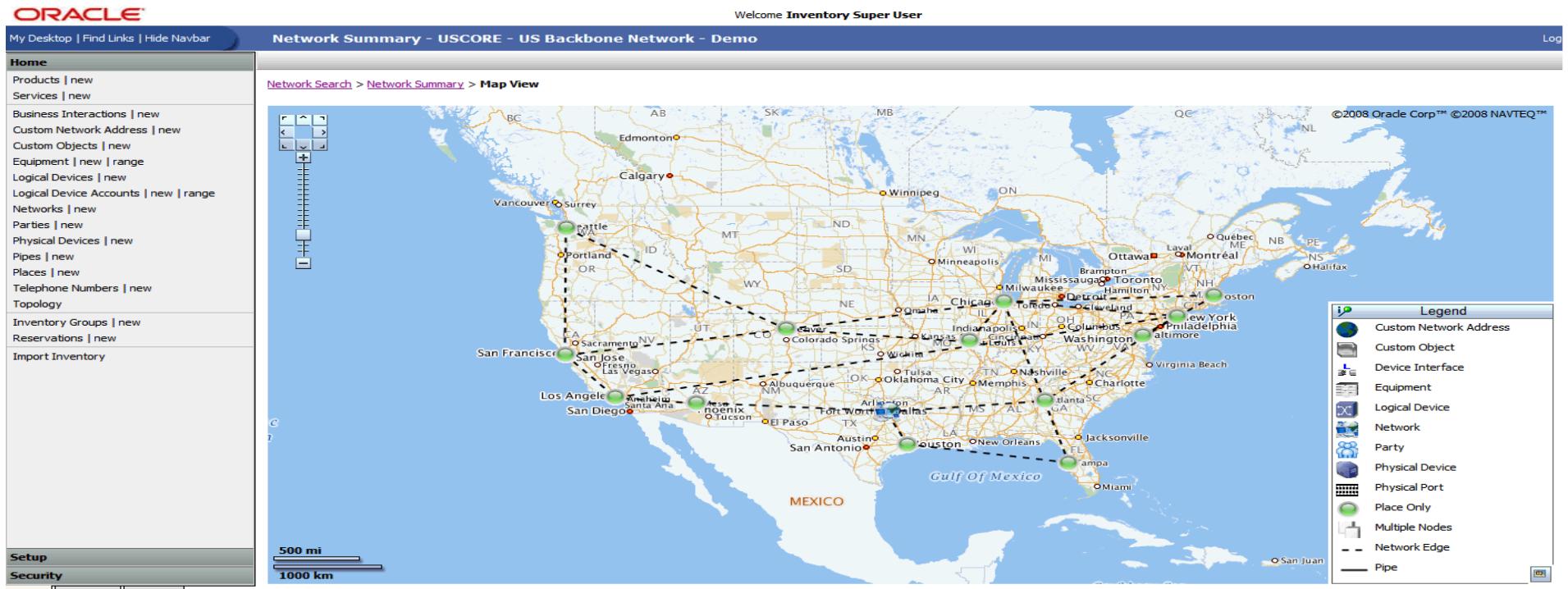
Asset Condition Score

- 0-10 Very Poor
- 11-20 Poor
- 21-30 Degrading
- 31-40 Acceptable
- 41-50 Good
- 51 - 100 Excellent

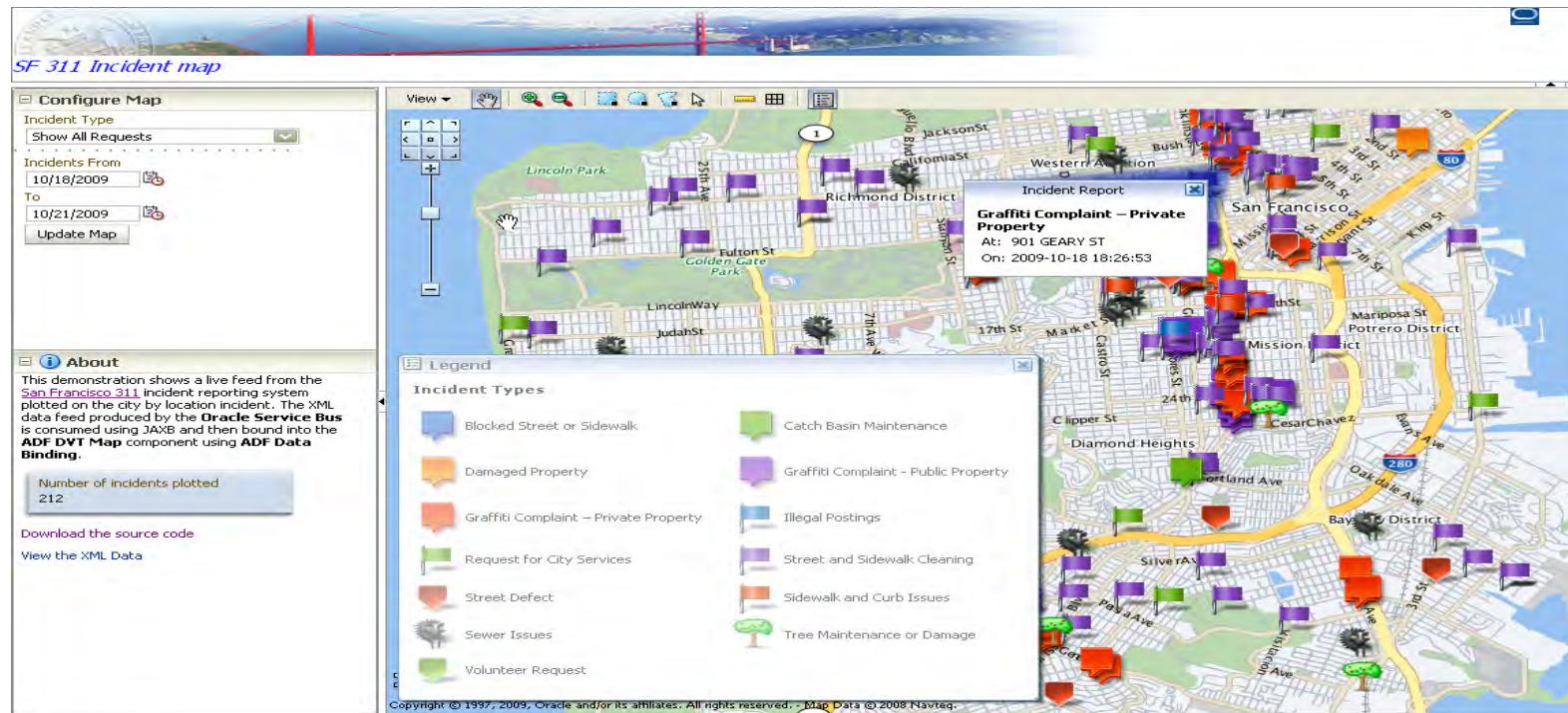
Home | Logout | Help | About



Comms: Unified Inventory Mgmt



Develop Applications with JDeveloper





Maps in Application Express

Auswertungen | Abmelden | Auswertungen | Räumliche Abfragen |

Karte

Kartengröße: 500 x 400 Pixel | Adresse: Riesstr. 25, München | Adresse suchen | Kundenselektion starten | Selektionen aufheben | Entfernen messen | Sync Bericht - Karte: EIN

Full Navteq data | OTN Navteq data

Germany

Kunden

Name	Umsatz	Flag
Fritz Muster	2000	MEDIUM
Mike Müller	0	MEDIUM
Freie Tanke	4876	HIGH
Wowereit	2000	HIGH
Eifel Power II	2000	MEDIUM
Carsten Czarski	500	MEDIUM
Märhoul	4798	MEDIUM
Tankstelle Lichtenrade	6587	MEDIUM
Carsten C.	9000	LOW
Karl Hunsrück	10000	HIGH
Tankstelle Schönefeld	4598	MEDIUM
Klaus Weber	9000	MEDIUM
Tankstelle Dreieck Havelland	7896	MEDIUM
Patenge	7598	MEDIUM
Der Säubrenner	100	LOW

1 - 15 Next >

Bundesländer

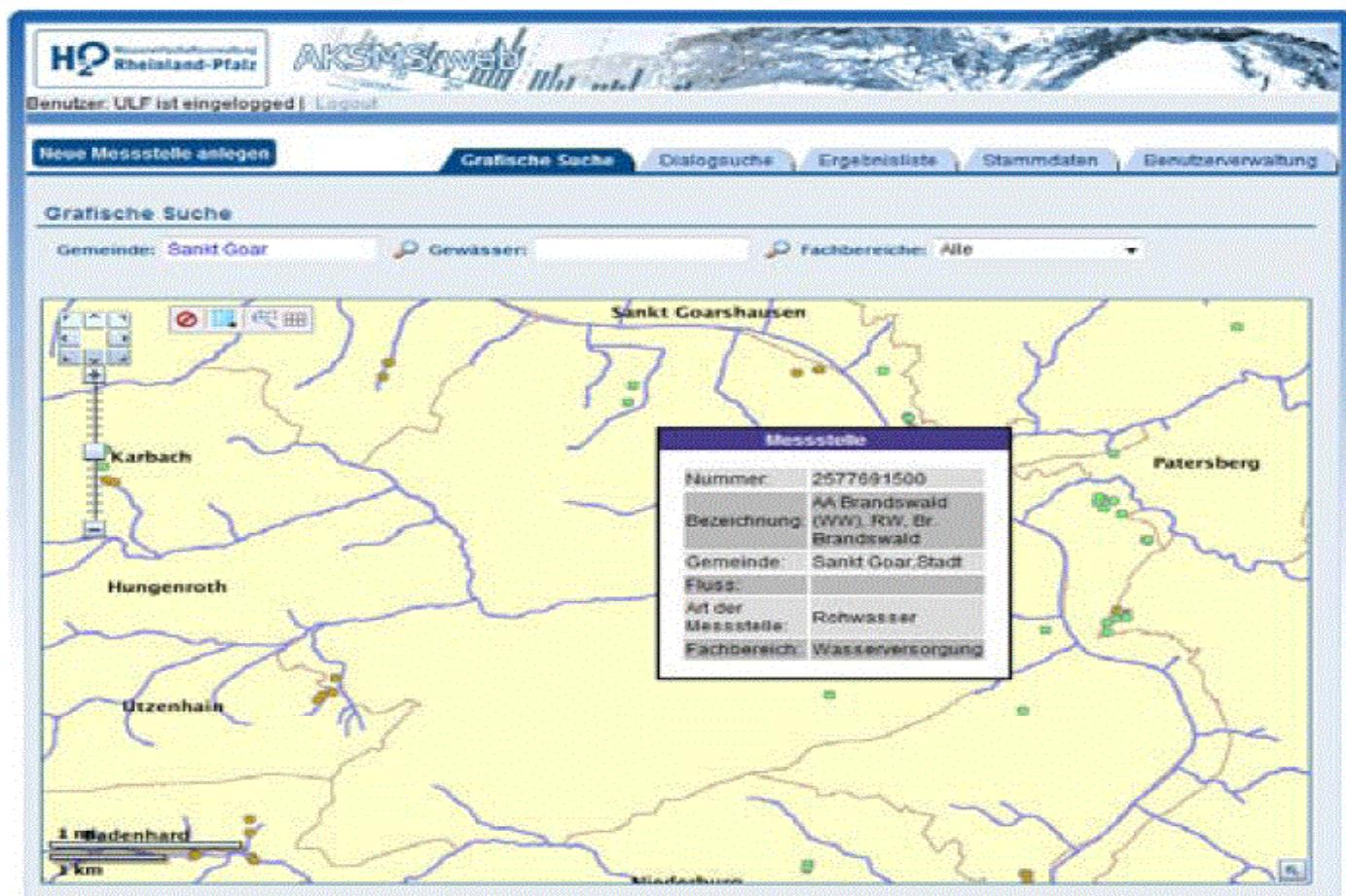
Bundesland	Kunden
Bayern	1
Berlin	5
Brandenburg	16
Hessen	2
Niedersachsen	2
Rheinland-Pfalz	15
Saarland	3
Sachsen-Anhalt	1

1 - 8

Hinweise

- Rechte Maustaste in der Karte: Reverse Geocoding
- Anmeldung mit **scott/tiger** vs. **admin/oracle**
- Kartengröße ändern mit der Auswahlliste
- Sync zwischen Karte und Bericht ein- und ausschalten

Application Express & MapViewer



Maps in WebCenter

demo116.oracle.com

Oracle Retail Workspace - Microsoft Internet Explorer

File Edit View Favorites Tools Help

ORACLE RETAIL WORKSPACE

Welcome Demo User Logout | Help | About

Dashboards

- Welcome
- Integrated Inventory Planning
- Integrated Fashion Planning

Workflow

- Alerts
- Worklist
- Workflows
- Administration

Applications

- Merchandising
- Planning
- Stores

Custom Reports

- Launch OBIEE/BIP
- OBIEE RGBU
- BIP RGBU

Standard Reports

- Launch OBIEE/BIP
- OBIEE RDW Reports
- OBIEE MDO Reports
- Business Intelligence Publisher (BIP)

Action Plan

- 3 PO's to Review
- 4 New and Discontinued Items
- Fresh Items Maint.
- 3 PO Plan Alerts

Key Projected Stock-Outs

SKU	Lost Sales: \$450	Weeks of Stock Out: 9	SKU	Lost Sales: \$250	Weeks of Stock Out: 99	SKU	Lost Sales: \$0	Weeks of Stock Out: 0
00100022207			00100022397			001		
Out: 8			Out: 9			Out: 99		

Pro-Active Management

Item	Service Level	Target Service Level
1111	97.0%	95.0%
1112	92.0%	92.0%
1113	87.0%	85.0%

Network Capacity - Network Group: Any / Week: Any / In-bound

Minneapolis Warehouse

Network Group	Ambient
Any	10/14/09

Projected Inbound Cases: 80

Inbound Capacity Cases: 100

Inbound Capacity %: 80

© 2009 NAVTEQ

Start Oracle Retail Worksp...

Internal Use Only.

2:37 PM

Mapviewer integration in SQLDeveloper

The screenshot shows the Oracle SQL Developer interface. The main window displays a table named 'COUNTIES_3785' with the following columns: GEOM, COUNTY, FIPSSTCO, STATE, STATE_ABRV, FIPSST, LANDSQMI, TOTPOP, and POPPSQMI. A filter 'STATE_ABRV in ('MA', 'NH')' is applied. The data for Massachusetts (MA) and New Hampshire (NH) is listed. A 'Geometry Context Dialog' is open, showing the geometry context for the selected row (row 1, Barnstable). The dialog lists the following values:

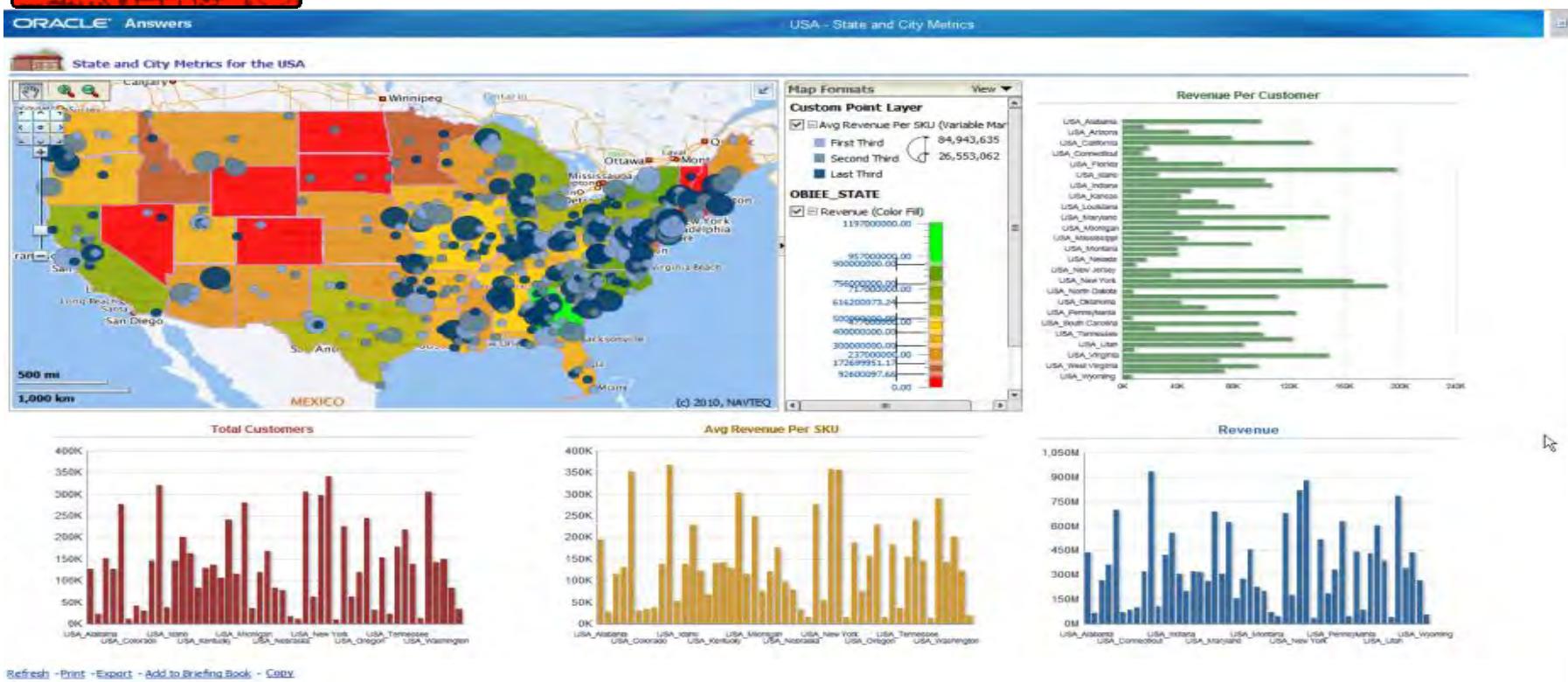
Column	Value
ORA_ROWSCN	11691077947000
COUNTY	Hillsborough
FIPSSTCO	33011
STATE	New Hampshire
STATE_ABRV	NH
FIPSST	33
LANDSQMI	876.333
TOTPOP	336073
POPPSQMI	383.499

The bottom right pane shows a map of New Hampshire with county boundaries. The 'Map Query List' on the right shows a query for 'GEOM'.



ORACLE® Answers

Map views in Oracle BI Suite





Utilities BI

ORACLE Interactive Dashboards My Dashboard Current Outage Dashboard Detailed Information Historical Outage Dashboard Dashboards - Answers - More Products - My Account - Log Out Page Options

Current Outage Dashboard

Current Outage Summary

Company	Number of Events	Customers Interrupted	Customer Minutes Interrupted	Average Outage Duration	MAX(Est Rst Time)
OPAL	30	4044	6,463,944	4,869	7:45 PM 3/25/2010

Summary by Hour

Call Summary by Hour

Customers Impacted by Cause

Customer ERT

Current Outage Summary

Company	Number of Events	Customers Interrupted	Customer Minutes Interrupted	Average Outage Duration	MAX(Est Rst Time)
OPAL	30	4044	6,463,944	4,869	7:45 PM 3/25/2010

Legend

- Customers Interrupted
 - 50 or less
 - 50 - 100
 - 100 - 200
 - 200 - 300
 - 300 - 400
 - 300 - 500
 - 500 up
- Customers Impacted
 - 0 - 150
 - 150 - 300
 - 300+
- Crew Location
- Customers Impacted
- Customers Impacted
- Customers Impacted
- Customers Impacted

Map

Map showing utility outages across a geographic area, with icons indicating the cause of the outage (e.g., lightning bolt, truck) and the number of customers impacted. Major roads and cities are labeled.

Complex Event Processing Tracking Moving Objects

Oracle Complex Event Processing (CEP) - Location Tracking POC

Address: C:\my_data\p4\sandbox\cep\ocepl03g\poc\eads\firecontrol\MapsFlexClient\bin-debug\MapsFlexClient.html

Map data ©2009 Tele Atlas – Terms of Use

Lat:53.4376 Lng:-2.9694

Alerts

Resource	Zone	Type	EventId	LocationEvent
B	1	NEAR	2	4
A	1	NEAR	1	3

Matches

Resource	Zone	Type	EventId	LocationEvent
B	1	NEAR	2	4
A	1	NEAR	1	3

Resource Events

ID	ExtTime	IntTime	EventId	Lat	Lng
C	00-Jan 24:00	15-Jan 20:46	5	53.4376	-2.9694
B	00-Jan 24:00	15-Jan 20:46	4	53.4395	-2.9668
A	00-Jan 24:00	15-Jan 20:46	3	53.4383	-2.9651
A	00-Jan 24:00	15-Jan 20:46	2	53.4382	-2.9634
B	00-Jan 24:00	15-Jan 20:46	1	53.4389	-2.9701

Zones

ID	LastUpdated	Name	Pver	Gver	Sides	Lat	Lng
1	00-Jan 24:00:00	Everton	3	3	9	53.4392	-2.9673
2	00-Jan 24:00:00	This is Anfield	1	1	89	53.4317	-2.9609

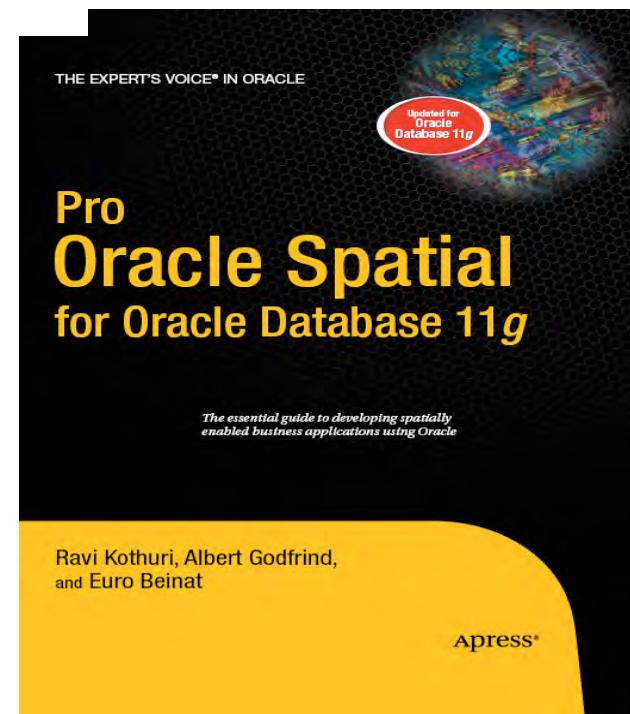


Resources

<http://www.oracle.com/technetwork/database/options/spatial>

The screenshot shows a Mozilla Firefox browser window with the URL <http://www.oracle.com/technology/products/spatial/index.html>. The page is titled "ORACLE 11g Oracle Spatial & Oracle Locator: Location Features for Oracle Database 11g". It features a map of New York City with labels for Croton, Hoboken, Jersey City, New York, Williamsburg, Brooklyn, and Park Slope. The sidebar on the left includes links for Oracle Spatial and Locator Resources, Documentation, Software, Sample Code, Training, References, What People Are Doing, Conference and User Group Presentations, Partner Solutions, Partner Downloads & Plug-ins, Partner Data, and a Discussion Forum. The footer shows the Oracle Technology Network logo and various time zone links: Done, GMT/UTC: Wed 18:10, Paris: Wed 19:10, UK: Wed 18:10, US Pacific: Wed 10:10, Boston: Wed 13:10, UAE: Wed 22:10.

Examples, white papers, downloads, discussion forum, sample data



Q&A