



For the Complete Technology & Database Professional



Oracle Spatial SIG

A Geospatially-Enabled Enterprise

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Cuyahoga County





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Agenda

- Cuyahoga County, Ohio
- Overview of Cuyahoga County Enterprise GIS
- Technologies
- Demonstration



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Cuyahoga County, Ohio

- The Cleveland Metropolitan Area
- Over 80 county agencies under 70 elected officials.
- 73 strongly governed municipalities
- 105 tax authorities
- Population approximately 1.4 million
- Most heavily populated county in Ohio and 22nd most populous county in the nation



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Cuyahoga County Enterprise GIS (CEGIS)

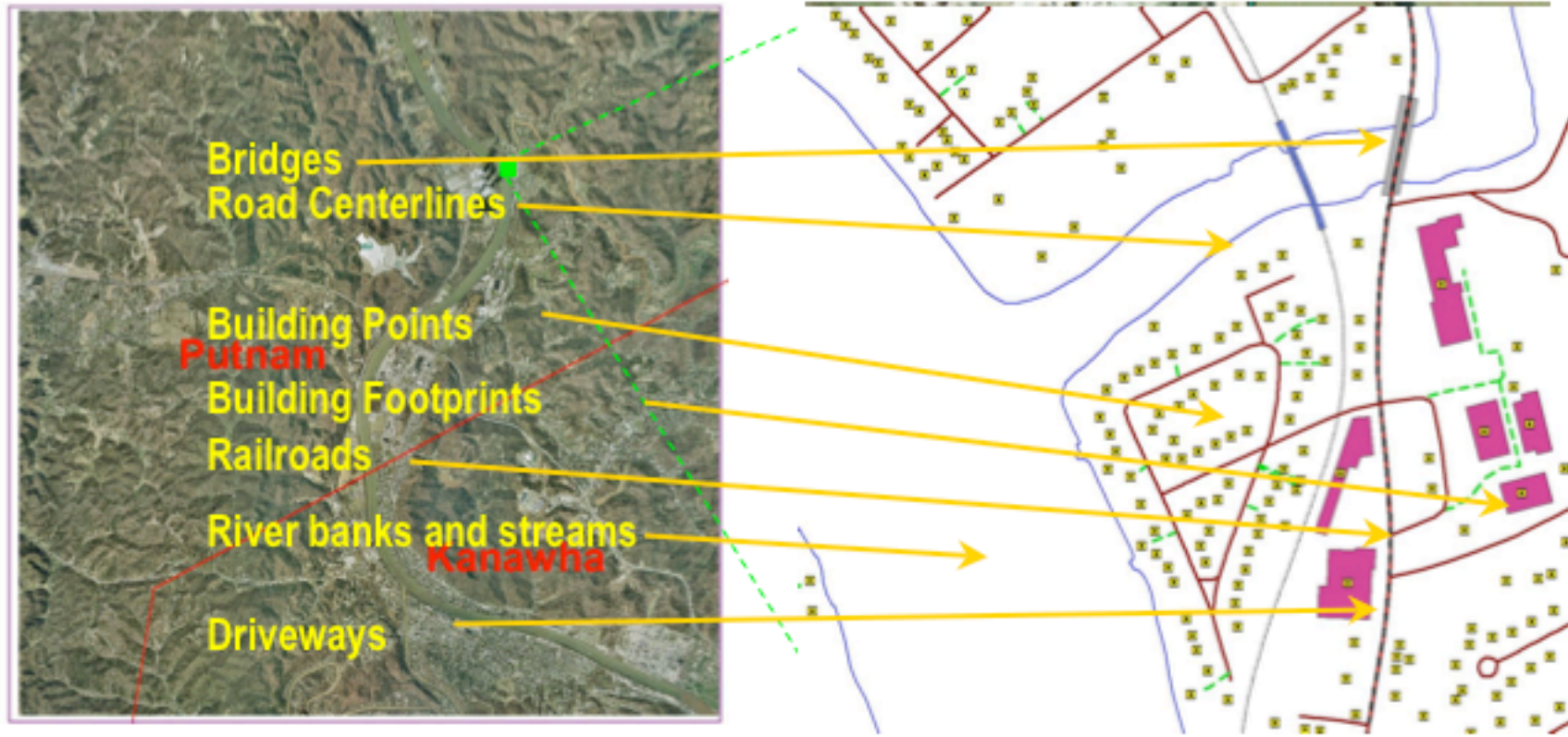
- Spatially enabled enterprise system
- A Sustainable Base Map
- Agency-Wide and Cross-Jurisdictional System Integration
- A Sustainable Enterprise System Architecture

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Cuyahoga County Enterprise GIS (CEGIS)

Orthoimagery

Planimetrics



Example



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Cuyahoga County Enterprise GIS (CEGIS)

The screenshot displays the Oracle Spatial SIG web application interface. The main map area shows a street network with various layers overlaid, including a red line representing a specific route or boundary. The interface includes a 'View Controls' panel on the left with navigation tools and a 'Themes' list. Below the map is a 'Data Tables' section with tabs for 'Streets', 'Sites', 'Jobs', 'Reports', 'QC Tools', 'Mark Outs', and 'Owner Parcels'. The 'Streets' table is currently active, showing a list of street data with columns for 'Select Details', 'Street ID', 'Address Range', 'Street', 'Community', 'County', 'Measure', 'Zoom', and 'Chain'.

Select Details	Street ID	Address Range	Street	Community	County	Measure	Zoom	Chain
<input type="checkbox"/> Show	29182	5050-5099	W PARK DR	FAIRVIEW PARK	CUYAHOGA	0.074 - 0.13		
<input type="checkbox"/> Show	29001	4940-4999	W PARK DR	FAIRVIEW PARK	CUYAHOGA	0.188 - 0.257		
<input type="checkbox"/> Show	29181	31633-31699	SEARBY AVF	FAIRVIEW PARK	CUYAHOGA	0.306 - 0.372		

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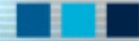
Cuyahoga County Enterprise GIS (CEGIS)

The screenshot displays the Oracle Spatial SIG web application interface. The top navigation bar includes links for Home, Mapping, Preferences, and Administration. The main interface is divided into several sections:

- View Controls:** A panel on the left containing navigation tools (pan, zoom, home, etc.), a Locator search box, and a dropdown for Map Units set to Geographic.
- Themes:** A list of map layers with checkboxes, including County, Municipality, Markout, Place, Sites, Owner Parcel, Streets, Cameras, Raster, Bridges, Building_FP, Railroad, Site Status, Airfield, and Jobs.
- Map:** The central area showing an aerial view of a city street grid with yellow and orange overlays representing GIS data.
- Data Tables:** A section below the map with tabs for Streets, Sites, Jobs, Reports, QC Tools, Mark Outs, and Owner Parcels. The Streets tab is active, showing a search bar, a table of street data, and various tool icons for interacting with the data.

The 'Streets' data table is as follows:

Select Details	Street ID	Address Range	Street	Community	County	Measure
<input type="checkbox"/>	Show 27750	2500-2699	E 49 ST	CLEVELAND	CUYAHOGA	0.0 - 0.07



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Cuyahoga County Enterprise GIS (CEGIS)

- Goal:
 - Geospatial data interoperability and portability
 - Scalable SOA
 - Provide “Unlimited” opportunities



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The screenshot displays the CEGIS web application interface, which is divided into three main sections:

- Layers & Locations:** A sidebar on the left containing a tree view of layers and locations. The 'Layers' section includes Property (Buildings, Foreclosures, Parcels, Addresses), Emergency Services (Evacuation Routes), Demographics (Census Blocks, Household Income, Median Income by Block Group, Population Density, Population Change), and Natural Features (Contours, Hydrography, Soils). The 'Locations' section includes Cityhogs (Sex Offenders, Gas Stations), Government (City Halls, Court Houses), Public Services & Sites (Schools, Hospitals, Community Centers, Colleges, Museums, Tourist Attraction, Historical Monument), and Recreational Facilities (Amusement Parks, Marinas, Parks and Recreation Area, Exercise Courses).
- Map Viewer:** The central area showing a map of a region with various colored overlays (green, orange, blue) and numerous small icons representing data points. The map includes navigation controls like a scale bar and a zoom slider.
- Locate Parcel:** A search panel on the right with a text input field for 'Find Parcel by Owner Name, Address or Parcel Identification Number'. Below the input is a 'File View' section showing 'No rows selected'. At the bottom of this panel are tabs for 'Details', 'Nearest Locations', and 'Routing'.



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Cuyahoga County
SANITARY ENGINEERING DIVISION

A CEGIS Project

Status at a Glance

- Manpower
- Active Service Requests
- Active Project
- Inspections
- Open Permits

Map Service Requests

Display Base Maps Measure

5 mi



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The Office of the Auditor
// Cuyahoga County Geospatial Kiosk

Locate Parcel

Current Scale: 1 mi.
Find Parcel by Owner Name, Address or Parcel Identification Number:

Select row to see details below

File	View
1	31113047 Milman, Thomas J 1073 Summit Ave, Lakewood
2	63122050 Milman, Frederick Trustee Ingall Brook Ln, Bratenahl
3	71309023 Milman, Frederick L. & Lois C. Co-Trustee 4984 Ridgebury Blvd, Lyndhurst
4	72126076 Milman, Bruce G 2449 Laurelhurst Rd, University Hts
5	93223003 Milman, Dona 454 E E Washington St, Chagrin Falls Village

Map Viewer

Display Base Maps Measure Quick Picks

500 ft

Property Number 311-13-047

General Information Ownership Value Taxes Transfers Accounts Receivable Lender Foreclosures

Property Class Tax Set 0320 School District 1817 State District Subdivision 0 Census Tract 00000	Class Extension Total Acres 0.1157 Front Footage 40.0 New Construction Deed Vol/Page 95284 / 0049 Plat Book/Page / Map Book/Page 311 / 13 Depth 126 Roll ReActivated <input type="checkbox"/>	Bankruptcy Code Cert. Delq Adver. Delq Foreclosure Step Pen. Rem. Appl. Exempt Appl. Aud. Code Tres. Code Auditor Sale <input type="checkbox"/>
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Watershed Contract Suspend

Units 0
Location address 1073 Summit Ave
Location Description

Property Description 22 SP 200FT 5 OF EDGEWATER DR

Lot	Sub lot
EDGEWATER DR	

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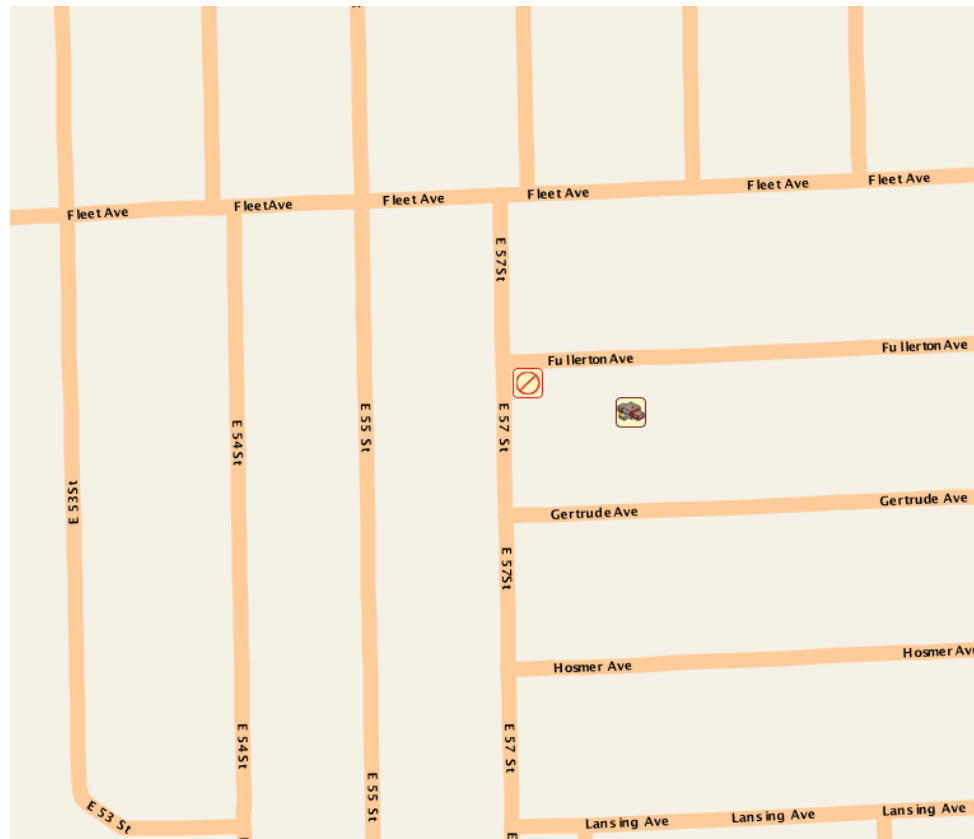
Cuyahoga County Enterprise GIS (CEGIS)

- Benefits:
 - Save lives
 - Save money and Increase revenues
 - Protect the public from disasters and terrorism
 - Heighten public safety
 - Support economic development
 - etc.



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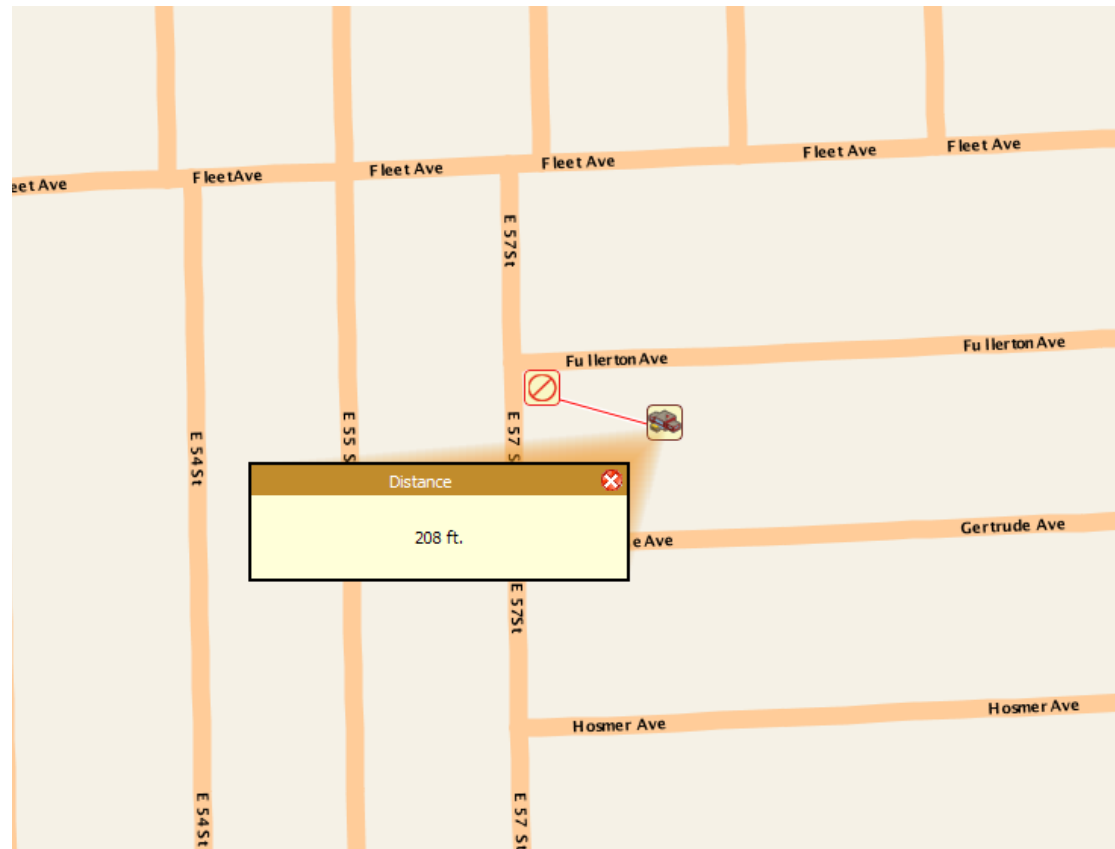
Cuyahoga County Enterprise GIS (CEGIS)





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Cuyahoga County Enterprise GIS (CEGIS)



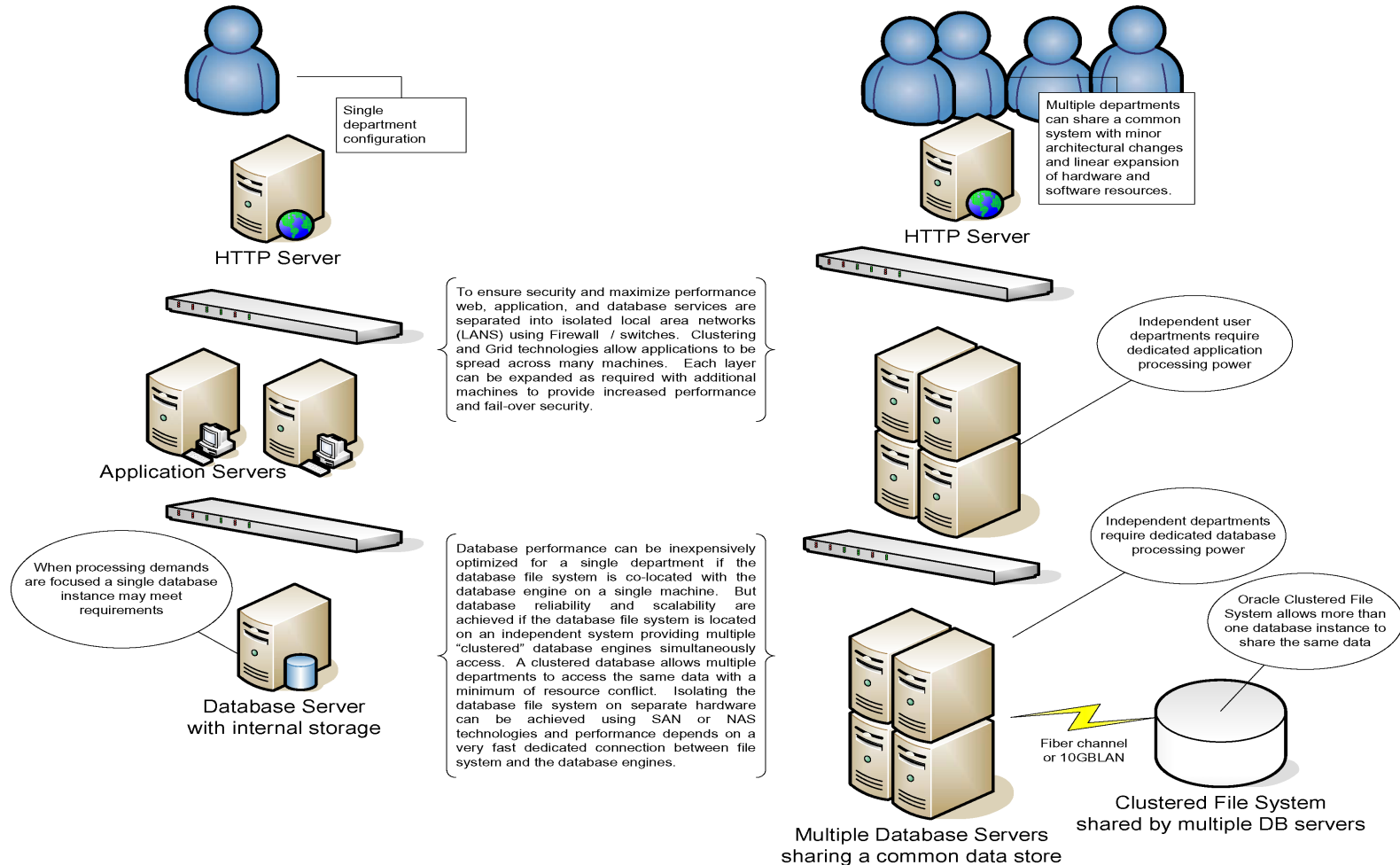
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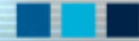
Technologies **11i+**

Technology	Status
Oracle 11g Database	Production
Oracle 11g Application Server	Expected 2008
JDeveloper 11g P3 & P4	Preview
EJB 3 – JPA – Spatial Extensions	Beta
JSF – ADF Rich Faces	Beta
MapViewer 11g R1	Preview
Mizar ADF Rich Faces – Spatial – MapViewer framework	In development



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Technologies: Oracle 11g Database

- Improved Spatial
 - Performance
 - 3D, Point Clouds
- SecureFiles
 - Georaster performance
 - LOB performance

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Technologies: Oracle ADF Rich Faces

- Beyond Trinidad
- Will be donated to open source
- JavaScript API, AJAX



Tab 1 Tab 2 Disabled tab 3 Tab 4

Tab 2 First Child
Tab 2 Second Child

Last Used Color
Default Color

My Files

- .svn
- WEB-INF
- components
 - .svn
 - pagefragments
 - pagehierarchy
 - secondaryWindows
 - skinningKeys
 - table
 - train

Custom Color...

Show Popup

Some popup content

Name	Size	No.
0	.	0
1	..	1
2	admin.jar 1 KB	2
3	applb	3
4	applications	4
5	config	5
6	connectors	6

07/12/2004 conr

Available Values

- orange juice
- wine
- milk
- fizz
- beer

Move
Move All
Remove
Remove All

Selected Values

- coffee
- tea
- lemonade

Search

Please search based on search criteria

Match All Any

* deptno Greater Than 10

ename Equals James

* hireDate Equals 2001-01-01

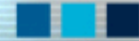
Basic Saved Search mySearch1

* Required fields

Search Reset Save

October 2006

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4



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Technologies: MapViewer 11g R1

- Custom Tags
- Annotations
- Caching
- JavaScript API
- Dynamic Client Side Styles
- JDBC Theme-Based FOI
- FOI Customizations

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Technologies: Automatic Themes

- Themes appear without programming
- The framework discovers the theme from the Oracle MapViewer metadata
- Flyovers and pop-ups are provided by Oracle Maps





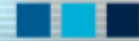
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Demostration

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Become a Complete Oracle Technology and Database Professional

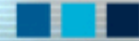
- Join the IOUG online at www.ioug.org and get immediate access to:
 - Member Discounts and Special Offers
 - SELECT Journal
 - Library of Oracle Knowledge (LoOK)
 - Member Directory
 - Special Interest Groups
 - Discussion Forums:
 - Access to Local and Regional Users Groups:
 - 5 Minute Briefing: Oracle
 - Volunteer Opportunities



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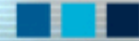
Stop by the IOUG Booth

- **Moscone Center West – 2nd Floor**
 - Register for Raffles and Giveaways
 - Find out more about IOUG
 - Fill out a SIG interest card
 - Tell them I sent you!!!



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Questions/Comments?



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Save the Date!

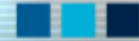


COLLABORATE09

Technology and **Applications** Forum for the **Oracle** Community

May 3-7, 2009

**Orange County Convention Center West
Orlando, Florida**



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Thank You!

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