



Starting down the Open ROAD with the Frequent Flyer Demo

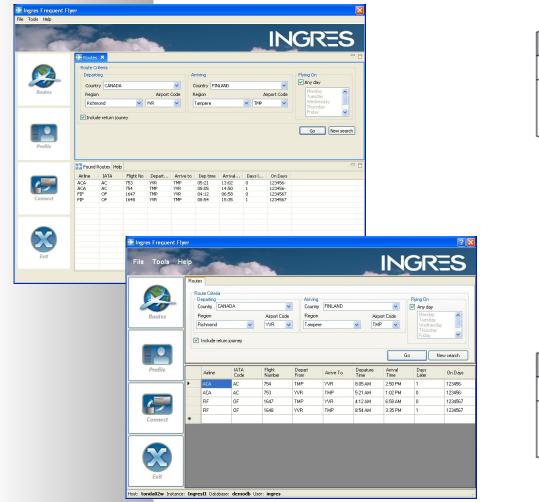
David Tondreau Architect

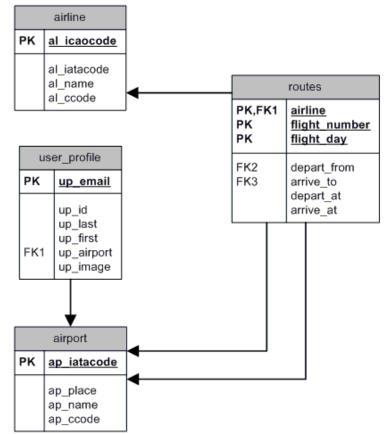
Agenda

- Overview of the Frequent Flyer demo
- Installing and running the client/server demo
- Configuring the middle tier for thin clients
- Application architecture and design
- OpenROAD open source opportunities



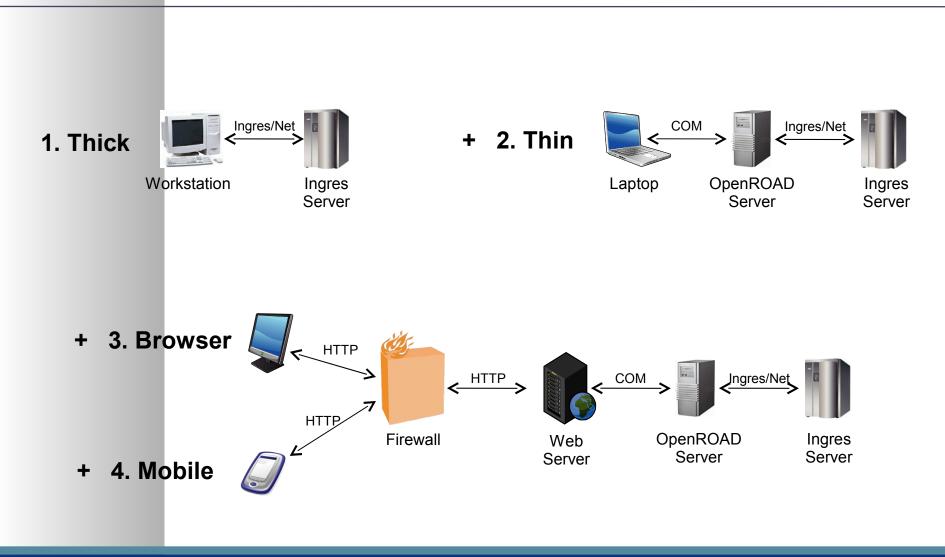
Ingres Frequent Flyer Java & C# Demos





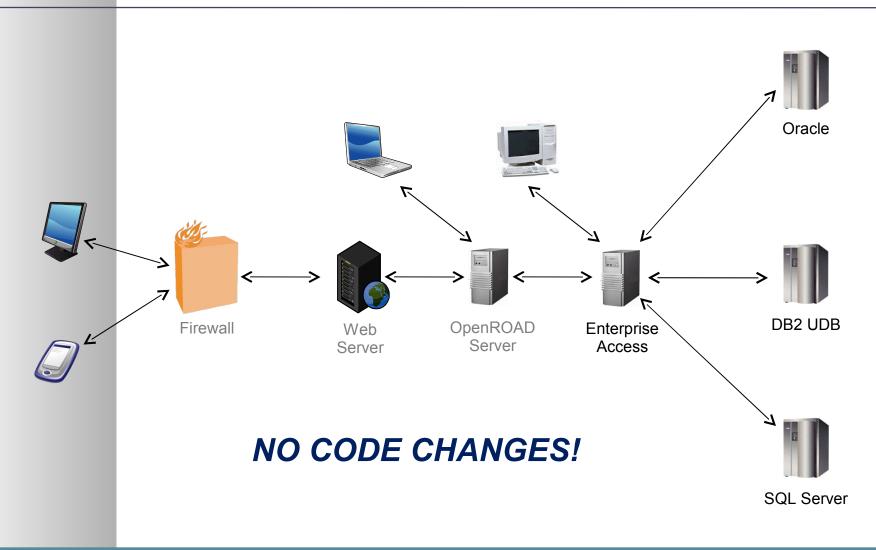


Additional Client Requirements





Additional Backend Requirements





Additional Platform Requirements





Additional Design Requirements

Reusable data services

- Implement data access logic in a single set of classes
- Incorporated in any client or tier (thick, thin, browser, mobile, server)
- Develop and test using client/server connection
- Build and deploy as pure thin client (no SQL) or "hybrid client" (client/server or thin client)
- Reusable user interface services
 - Implement user interface logic once
 - Apply to any form factor (desktop, browser or mobile)



Prerequisites

- Any Linux/UNIX/Windows platform supported by OpenROAD 2006
- An existing installation of OpenROAD 2006
- One of the following:
 - Local Ingres DBMS server installation
 - Ingres/Net client installation with access to a remote Ingres DBMS server
 - Enterprise Access installation with access to a local or remote data source



OpenROAD Flyer Project Pages

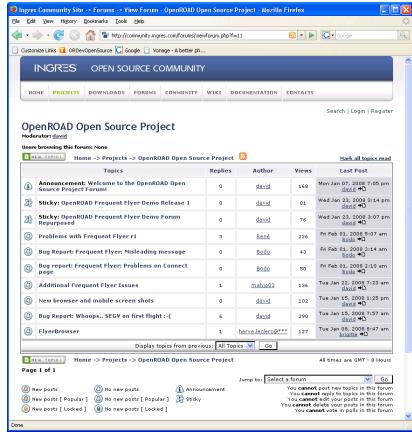
- community.ingres.com
- Click on "Wiki"
- Click on "OpenROAD"
- Scroll to the "Projects" section
- Click on the "OpenROAD Frequent Flyer Demo" link

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OpenROAD Frequent Flyer Support

- Community support is provided in the forums
 - Projects > OpenROAD Open Source Project
- Bugs Reports:
 - Logged in internal system
 - Itemized on project pages
- Fixes and Contributions
 - Committed to source mgmt
 - Itemized on project pages





Community vs. Enterprise Packages

- Licensing mirrors that available for Ingres Corporation's open source products
- Enterprise Edition (Commercial)
 - Available to customers with OpenROAD support contracts
 - Enables you to use any of the source code in your apps
- Community Edition (GPL)
 - Freely available to community members (trial edition)
 - Usage is in accordance to the GPL
- Available on the "Downloads" project page



What the Frequent Flyer Installer Does

• Creates a database to host the demo ("flyer_r1").

- Installs the demo schema and issues permissions.
- Imports the sample data into the database.
- Loads the source applications into the database.

Copies the demo files to the workstation

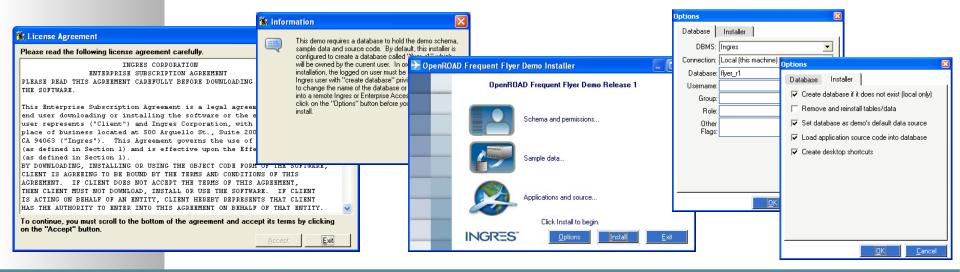
- %II_SYSTEM%/ingres/w4glapps/flyer_r1/...
- Creates shortcuts
 - Desktop shortcut to run the demo (Windows only).
 - Adds a connection profile to OpenROAD Workbench.



Running the Installer on Windows

Download, unzip and run the installer

- Accept the click through license
- For installation into a remote database or Enterprise Access data source, click on the "Options" button
- Click "Install" to start the installation





Running the installer on Linux or UNIX

- Download the compressed tarball, extract the installation files and run the 4GL installer
 - tar -xzvf com_ingres_demo_flyer_r1.tar.gz
 - cd com_ingres_demo_flyer_r1
 - w4glrun comingresinstallflyer.img
- Use "gpl" instead of "com" if you have downloaded the community edition.
- The remainder of the installation process is identical to Windows



The Demo Application Folders

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Running the Desktop Client in Client/Server Mode

- **Demo will be started when the installer finishes**
- To start on Windows:
 - Click on the desktop shortcut
 - w4glrun %II_SYSTEM%\ingres\w4glapps\flyer_r1\bin\comingresdemoflyerdesktop.img
- To Start on Linux/UNIX:
 - w4glrun \$II_SYSTEM/ingres/w4glapps/flyer_r1/bin/comingresdemoflyerdesktop.img



Running the Desktop Client in Client/Server Mode

DpenROAD Frequent	Flyer
File Tools He	INGRES
Routes	About Me Personal Details Email Address [francesca.parlucci@resco.es Last Name Parlucci First Name Francesca Photograph Browse
Profile	Default Profile Add Remove Change
Connect	Welcome Francesca Email Address francesca.parlucci@resco.es Airport Preference MAD
Exit	

Demo

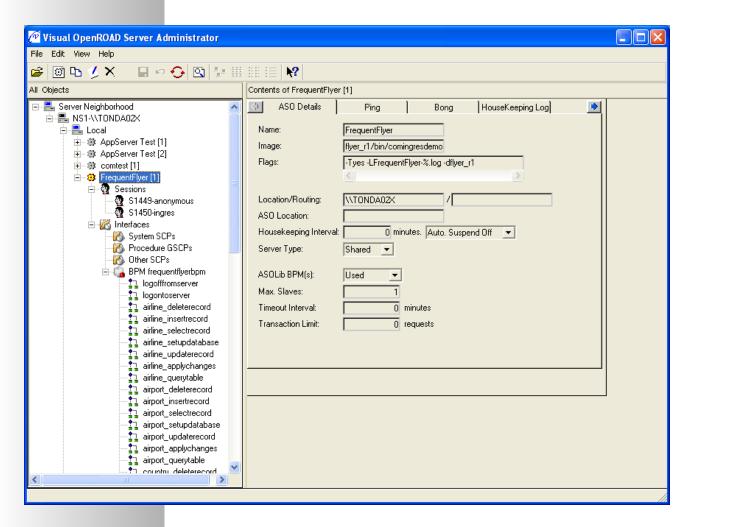


Configuring the OpenROAD Server

- Start the OpenROAD Server Administrator or the OpenROAD Workbench "Manage" tab
- Open the current server node, select the "Local" subnode, right click, Select "Register"
 - AKA Name: FrequentFlyer
 - Image: flyer_r1/bin/comingresdemoflyerserver.img
 - Flags: -Tyes -LFrequentFlyer-%.log -dflyer_r1
 - Server Type: Shared
 - ASOLib BPMs: Used
- Click the "Save" toolbar icon
 - To test: Right click on the new node, select "Connect"



Configuring the OpenROAD Server (cont.)



Demo

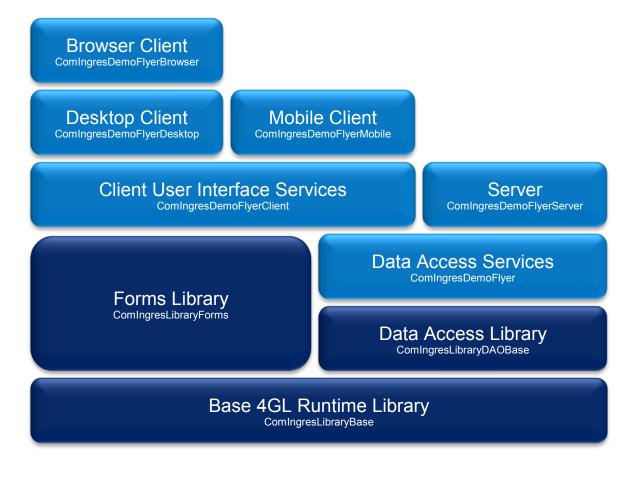


Application Architecture and Design

- Application Structure and Namespace
- Generated Data Access Services
- Reusable User Interface Logic
- The Top Window and Portlets
- The Browser Client
- The Mobile Client



Application Structure / Namespace









Data Access Services

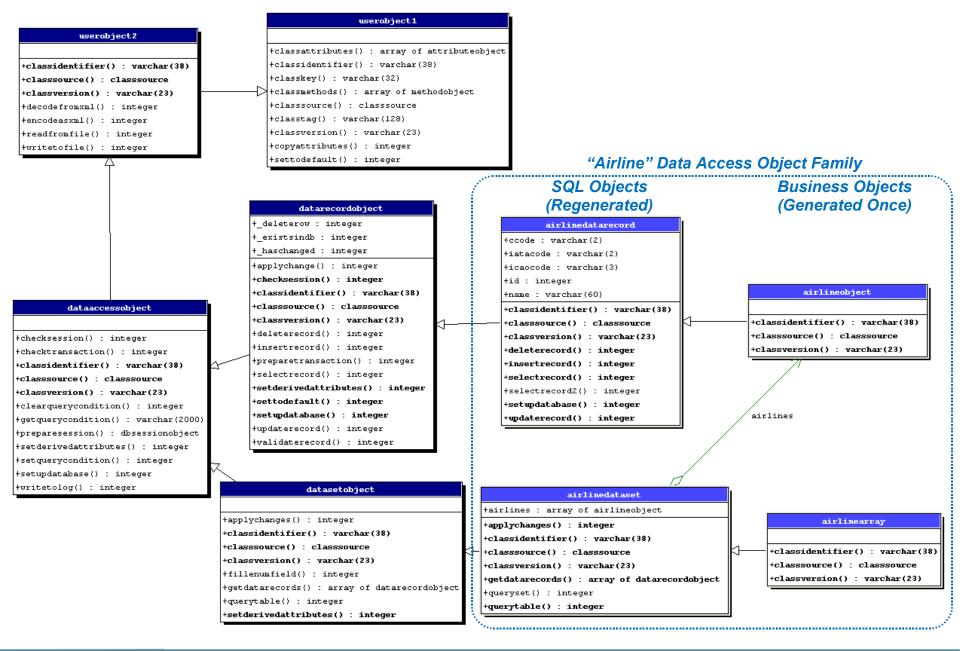
- Provide simple object-relational mapping
- Allow a developer to deal with the database in programmatic terms
- Embed SQL to move data to/from the database
- Must encapsulate all error detection and handling
- Need to support both client/server and remote access to object methods



Data Access Object Generator (DAOGen)

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Output source to Named database Schema database Library application ComIngresDemoFlyerDA0 Server application ComIngresDemoFlyerServer Target directory BPM Class Name FrequentFlyerBPM Server context Stateless Stateful Database access Read/Write Read/Only * If an existing Business Object or BPM is found, it 	





INGRES

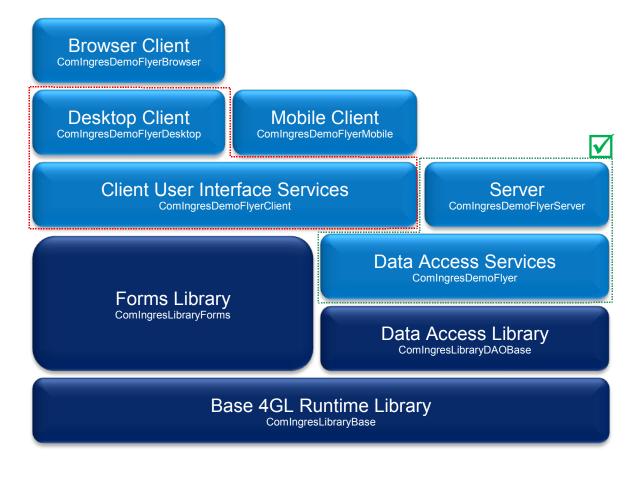
Flyer Data Access Library and Server

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Demo



Application Structure / Namespace









Forms Design

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	IATA Code Server Location AKA Name Password Password



Field / Action / Data Mapping

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		AirportList.Airport[] : AirportObject
Airline Flight IATA Depart Code From	Arrive Depart Arrive Days To At At Later Dn Days	FullRouteList : FullRouteArray
		FullRouteList.FullRoute[] : FullRouteObject



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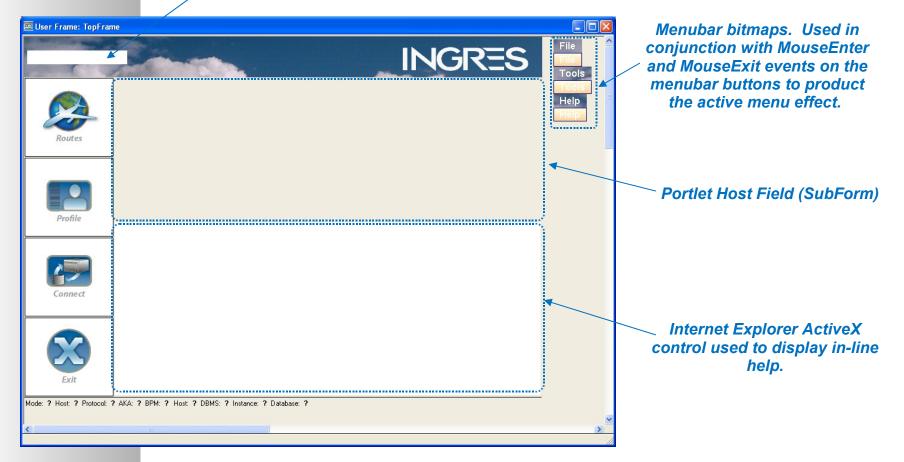
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INGRES

OpenROAD Flyer Top Window

Custom menubar (stack of PopupButtons)





Top Level Window and Portlets

- The Routes, Profiles and Connect functions were all implemented as separate frames.
- The OpenROAD Flyer demo exposes all of these functions in a single window.
- How? OpenROAD 2006 "portlet" support



OpenROAD 2006 Portlet Support

• Adds a "Multi-Document Interface" (MDI)

- Fields on one frame (the "guest") can be moved ("docked") at runtime into a composite field on another frame (the "host")
- The guest receives all events that arise on the host because of user interaction with docked fields
- Works in conjunction with the OPENFRAME statement
- Add a new attribute to FormField called "ParentExec" which must be set before fields are moved to another frame
- 4GL "wrapper" classes in the Forms Library
 - Supports a higher level portlet interface providing container trim and common actions (dock, undock, resizing, messaging, etc.)



The Portlet Process on the Top Frame

• The top level frame is run:

- If the DB connection fails, the "Connect" frame is opened
- Otherwise, the "Routes" frame is started with OpenFrame

When one of the detail frames is run, it:

- Is passed its U/I object which contains a reference to the subform on the top frame where the fields are to be hosted
- Moves the appropriate fields on its form to the host field
- Make itself invisible to hide the rest of the window
- NOTE: Much of this is performed with Forms Library objects

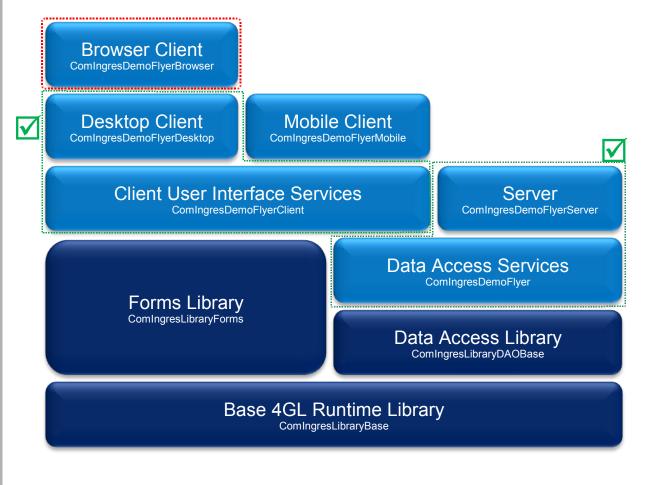


The Portlet Process (cont.)

- When interaction with fields of a detail frame that are on the top form generate events (SetValue...):
 - The event is *automatically* forwarded to the detail frame
 - The detail frame receives the event and acts on it as though the fields were still local on it's form
- When a user requests a different function (via the menu or button bars):
 - The current portlet is undocked
 - The new detail function opened (or docked if already open)



Application Structure / Namespace









- The Browser client was quite easy to build
- Top level frame was redesigned to provide and appropriate look and feel for a browser
- The Routes, Profile and Connect frame from the Desktop client were used in tact
- The Browser application can be packaged and deployed using the Workbench 2006 Deploy tab (Windows only)



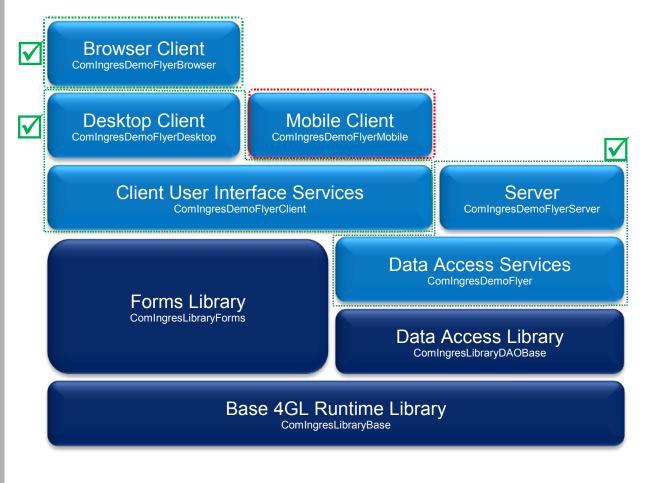
Packaging and Deploying the Browser Client

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Acc Change Change	
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Email Address francesca.parlucci@resco.es	
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© 2007 Ingres Corporation. All rights reserved.	
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Application Structure / Namespace









Mobile Client

- The Mobile client was cloned from the Desktop client
- Frames were redesigned to fit into a mobile form factor
- Portlet infrastructure removed
- Support for client/server and DCOM based thin client connections removed
- The top frame was simplified (buttons only)



Mobile Client (cont).





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🕮 User Frame: ConnectFrame	
File Tools Help	
	^
Connect to Data Source	
Server	
Location:	, –
AKA Name:	_
Credentials	
User ID:	1
Password:	1
	1
	1
Make default Change Reset	1
	-
	>
	<u> </u>



Topics for the Next Webcast

- OpenROAD Server via HTTP
- Configuring IIS and TomCat for HTTP access
- Configuring HTTPS via SSL
- Connecting the clients via HTTP
- Deploying and running the mobile client
- Documentation (in code and in line)
- The OpenROAD web browser



OpenROAD Open Source Opportunities

- Frequent Flyer Demo
- Data Access Object Generator (DAOGen)
- Proxy Generator (ProxyGen)
- OpenROAD In-line Documentation Generator (ORDoc)
- OpenROAD Open Source Release



Become A Member!

It's valuable:

- Leverage the knowledge and work of others
- Accelerate your own development
- Directly influence the future of OpenROAD
- It's easy:
 - Many opportunities to fit any skill
 - Design, develop, test, document, share, evangelize, etc...
 - See http://community.ingres.com/wiki/Membership



Your Questions and Feedback



