



### Starting down the Open ROAD with the Frequent Flyer Demo

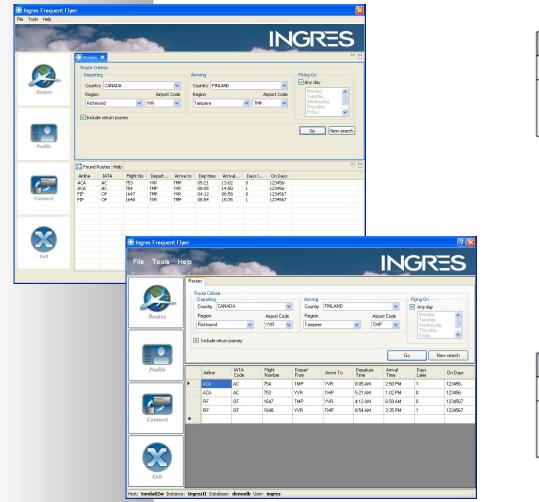
David Tondreau Architect

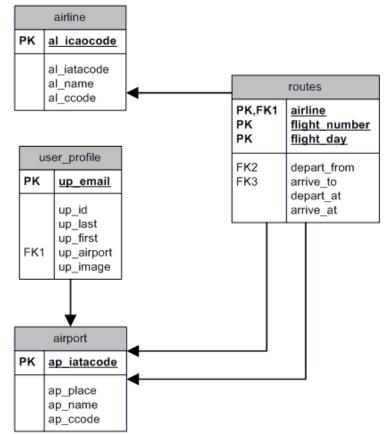
### Agenda

- 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



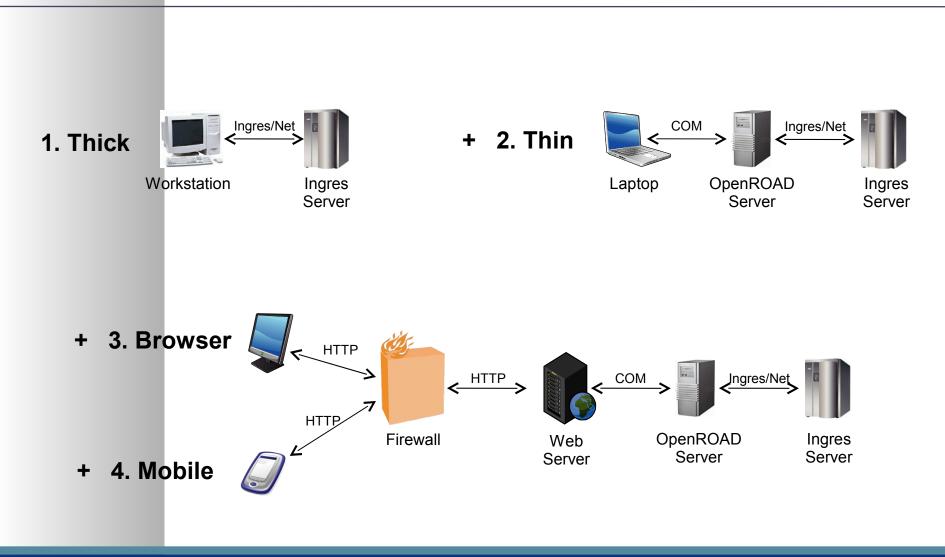
### **Ingres Frequent Flyer Java & C# Demos**





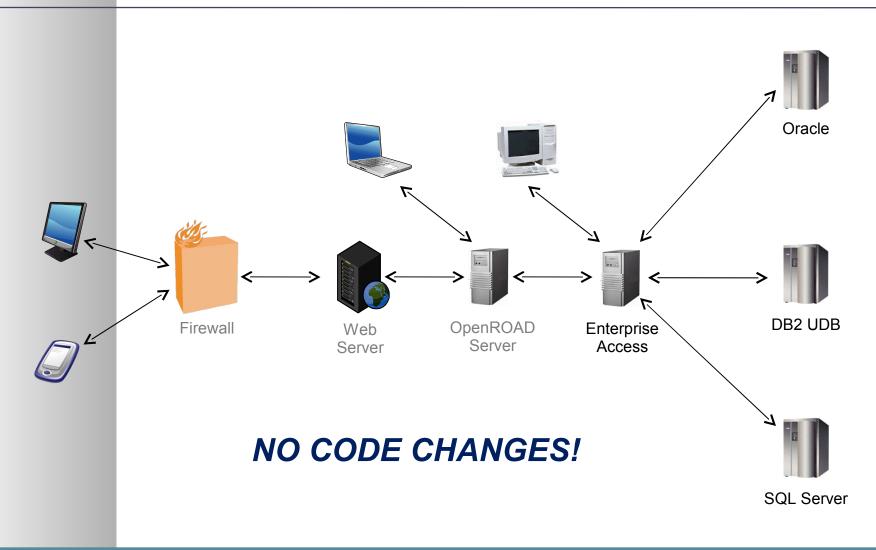


### **Additional Client Requirements**





### **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**

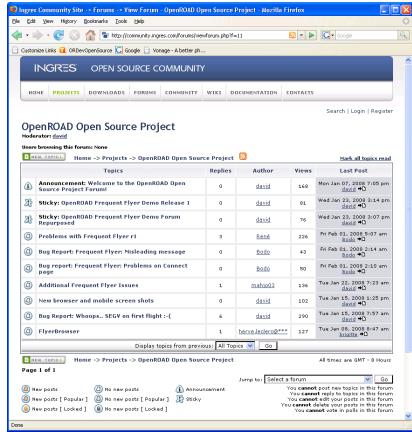
- community.ingres.com
- Click on "Wiki"
- Click on "OpenROAD"
- Scroll to the "Projects" section
- Click on the "OpenROAD Frequent Flyer Demo" link

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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

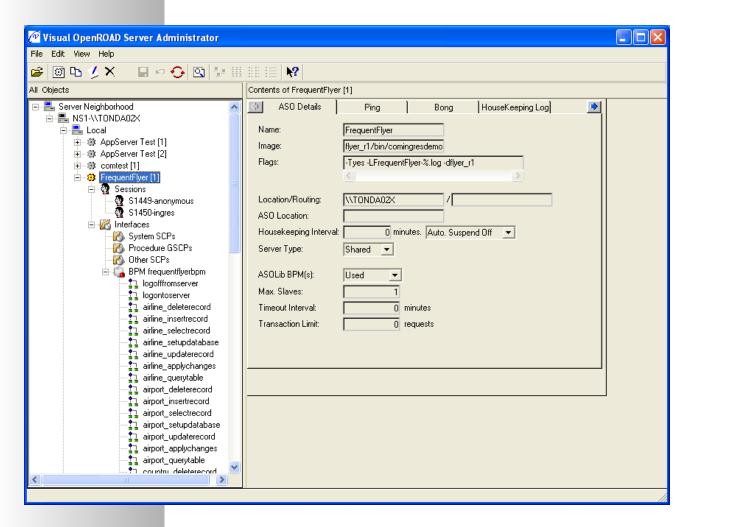


#### **Configuring the OpenROAD Server**

- 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

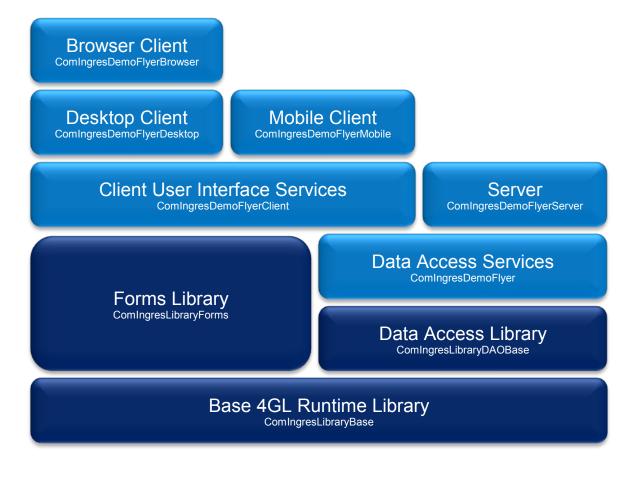


### **Application Architecture and Design**

- 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**

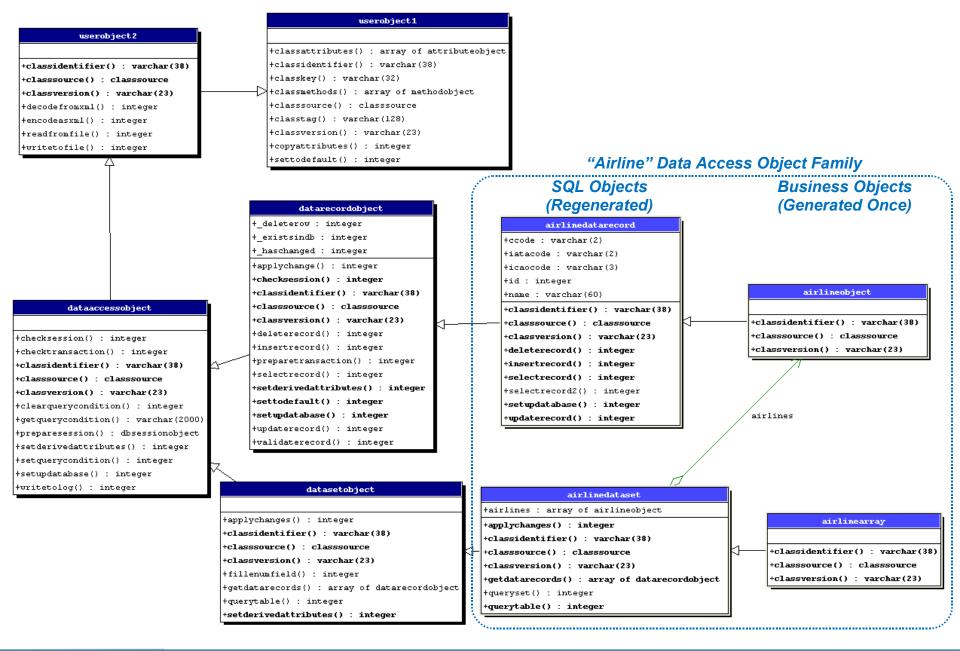
- Provide simple object-relational mapping
- Allow a developer to deal with the database in programmatic terms
- Embed SQL to move data to/from the database
- Must encapsulate all error detection and handling
- Need to support both client/server and remote access to object methods



### **Data Access Object Generator (DAOGen)**

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components to generate  ↓	General Naming Options ORDoc Tables Replace Decide Country Tables/Views in Schema Database Tables/Views to Gen
Output source to <ul> <li>Named database</li> <li>Schema database</li> <li>Library application</li> <li>ComIngresDemoFlyerDA0</li> <li>Server application</li> <li>ComIngresDemoFlyerServer</li> <li>Target directory</li> <li>BPM Class Name</li> <li>FrequentFlyerBPM</li> <li>Server context</li> <li>Stateless</li> <li>Stateful</li> <li>Database access</li> <li>Read/Write</li> <li>Read/Only</li> <li>* If an existing Business Object or BPM is found, it</li> </ul>	





#### INGRES

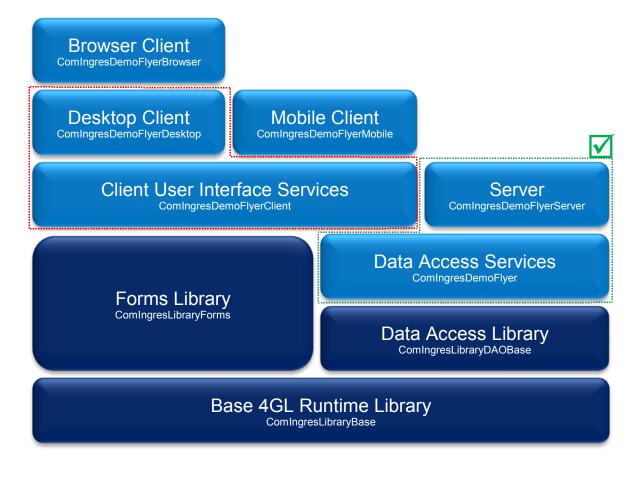
### **Flyer Data Access Library and Server**

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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



profilewindow +addbutton : buttonfield +airportdetail : subform +airportlist : airportarray +airporttable : tablefield +browsebutton : buttonfield +changebutton : buttonfield +curprofile : userprofileobject +curstate : varchar(32) +defaultprofile : togglefield +detailairport : entryfield +detailemail : entryfield +detailfirst : entryfield +detailphoto : imagefield +editfields : array of scalarfield +emailentry : entryfield +emailoption : optionfield +emptylist : airportarray +filename : entryfield +firstname : entryfield +homeairport : optionfield +homecountry : optionfield +homeregion : optionfield +lastname : entryfield +modifybutton : buttonfield +newbutton : buttonfield +nouserphoto : bitmapobject +profiledetail : subform +profilelist : userprofilearray +removebutton : buttonfield +applychange() : integer +onchildentryairports() : integer +onclickaddbutton() : integer +onclickbrowsebutton() : integer +onclickchangebutton() : integer +onclickmodifybutton() : integer +onclicknewbutton() : integer +onclickremovebutton() : integer +onsetvalueairport() : integer +onsetvaluecountry() : integer +onsetvalueemailoption() : integer +onsetvalueregion() : integer +setairport() : integer +setdisplay() : integer +setprofile() : integer +setstate() : integer +startframe() : integer

flyerwindow +browser : compositefield +curdisplay : varchar(32) +frame : frameexec +helpfile : varchar(32) +portlet : portletfield +resetframe() : integer +setdisplay() : integer +startframe() : integer

#### connectwindow

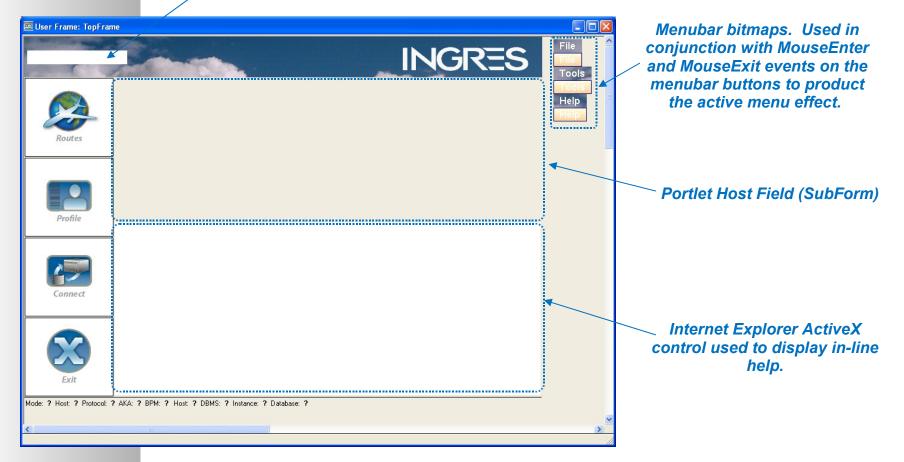
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#### INGRES

### **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

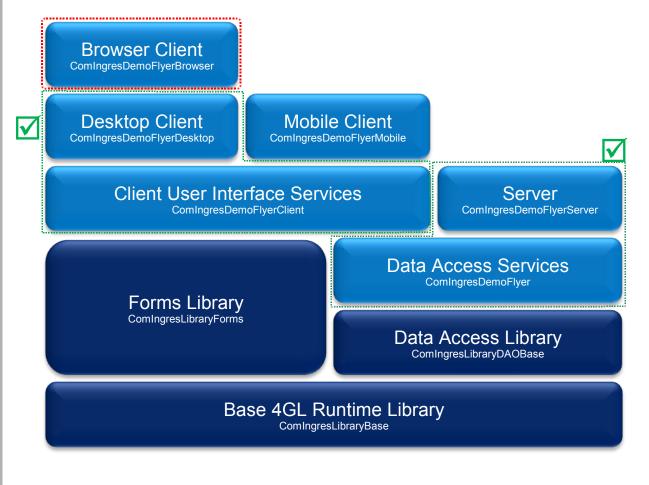


### **The Portlet Process (cont.)**

- 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)



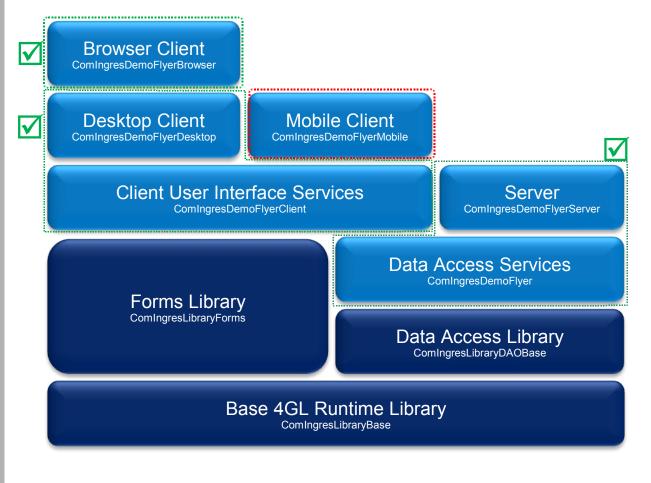
#### **Packaging and Deploying the Browser Client**

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Copenkuau Frequent Fiyer venio - windows Internet Explorer	Unique Identifier:
	71B2E4B2-647B-48EE-9B62-7A63AB03AD35 Reassign
	Version: 1,0,0,0
INGRES® Frequent Flyer	
Mode: Thin Client Host localhost Protocol DCOM AKA: FrequentFlyer BPM: FrequentFlyerBPM	Type:  G 4GL Control G 4GL Library
	Run Mode:
File - Tools - Help - 🥵 Routes 🌄 Profile 🧖 Connect 🕜 Explain	Runtime command flags:
About Me	-Tlogonly
Personal Details	
Email Address Trancesca parlucci@resco.es	Control background color: 0xFFFFFF Choose
Last Name Parlucci	Notes/History:
First Name Francesca Region Airport Code	
Photograph Browse Madrid MAD -	
Dowse	
I Default Profile	
Add Remove Change	
Acc Change Change	
	Package Content Environment Install File Output Web Page
Welcome Francesca	
	ingres flyer_r1
Email Address francesca.parlucci@resco.es	
Airport Preference MAD	
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Done Scalintranet 4,100% * 🛒	





### **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).





			Prof	ile Fram	e	-
File	Tools	Help				
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Jse	r Profil	e				
						•
				Airport		
				Préfer	ence	
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			<u> </u>		Keniu	*6
Abo	ut Me	Detai		Airports		
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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**



