

ORACLE®




ORACLE®



OAF Personalization

Jasmina Banda

Senior Technical Specialist, Oracle Consulting



The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Agenda

- Overview
- About This Page
- Personalization Profile Options
- User-Level Personalization
- Administrator-Level Personalization
- Translating Personalization
- Deploying Personalization
- Q&A



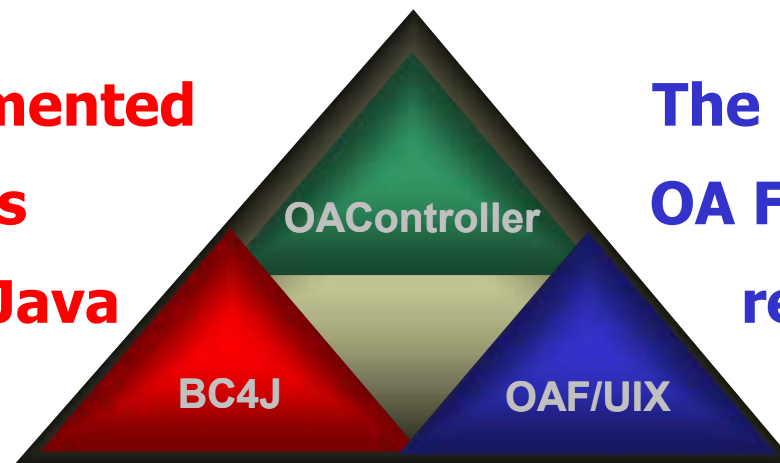
Oracle Application Framework (OAF)

- Oracle Applications Framework (OAF) is the underlying J2EE technology used to develop the web-based portions of the E-Business Suite (EBS) product family.

The *Controller* is an OA Framework

**Java interface with two main methods:
processRequest, processFormRequest**

**The *Model* is implemented
using Business
Components for Java
(BC4J)**



**The *View* is defined using
OA Framework metadata,
rendered using UIX**

Customization

- Configuration
- Personalization
- Extensibility
- Interoperability



Personalization

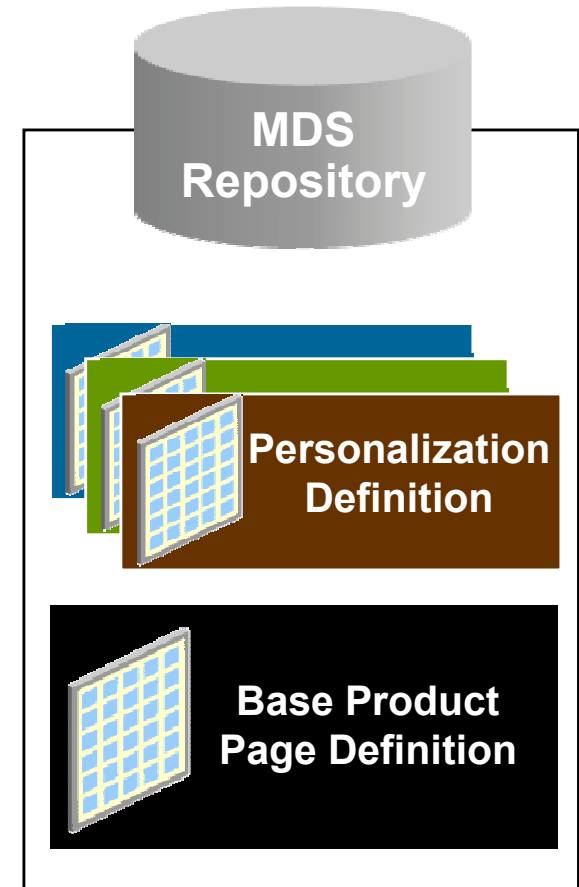
- Declaratively tailoring the user interface (UI), layout or visibility of page content to suite a business need or a user preference.
- Personalization examples:
 - Tailor the order in which table columns are displayed.
 - Tailor a query result.
 - Initializing item.

Personalization vs. Extensions

	Personalization	Extension
Done in Page?	Yes	No
Special Tool	No	Yes
Programming	No	Yes
Likely to Survive an Upgrade?	Yes	No

OAF - Upgrade safe

- Declarative UI component definitions are stored in MDS repository.
- Personalizations are translated into offsets from the base meta-data definition and stored separately.
- Product upgrades and patches affect only the base meta-data definition, so customer personalizations continue to function properly as applicable.



Personalization Levels

- Oracle's In-House E-Business Suite Developer
- Oracle Applications Administrator
 1. Function Level
 2. Industry Level
 3. Localization Level
 4. Site Level
 5. Organization Level
 6. Responsibility Level
 7. Seeded User Level
- Oracle Applications User

About This Page



Profile Option

FND: Diagnostics (FND_DIAGNOSTICS)

- Yes/No
- Renders the **About this page** link at the bottom of each OA Framework-based page

Expenses Home Logout Preferences Contact Us Global Policy Personalize Page Diagnostics
About this Page Privacy Statement Copyright (c) 2006, Oracle. All rights reserved.



About This Page

- Displays information about the page, the page's context and the environment
- Subtabs:
 - Page
 - Personalization
 - Page Context
 - Technology Components
 - Java System Properties
 - Profiles
 - Patches

Page Personalization Page Context Technology Components Java System Properties Profiles Patches

About This Page

Page Subtab

Page Name ←

Web Bean Structure ←

BC4J ←

Flexfields ←

Translatable Items ←

The screenshot displays the 'About This Page' subtab in Oracle APEX. It features several tabs: Page, Personalization, Page Context, Technology Components, and Java System Properties. The 'Page' tab is active, showing the page name and page definition. Below this, there are expand/collapse controls and a web bean structure table. The table has columns for Focus Name, Controller, Application Module, View Object, and View Attribute. A single row is visible for 'pageLayout: Expense Reports'. Below the table is a section for Business Component References Details, followed by a section for Flexfield References which is currently empty. At the bottom, there is a section for Translatable Items.

Focus Name	Controller	Application Module	View Object	View Attribute
pageLayout: Expense Reports	OIEPageCO	ExpenseReportsPageAM		

Business Component References Details				
No flexfields found on this page				

Translatable Items				
--------------------	--	--	--	--

Concepts: Pages, Regions, Items

- A page is a location a user can navigate to from a menu, tab, or another page.
 - A page provides a specific piece of functionality.
 - An administrator can create personalizations at the page level.
- A region is a specific part of a page.
 - Arranged hierarchically (regions within a region, within a region, ...).
 - An administrator can create personalizations at the region level.
 - An end user can create personalizations for specific regions (for inquiry pages if enabled).
- An item is a field, button, poplist, or other user interface widget.
 - Items must be contained in a region.
 - An administrator can personalize almost all items.
 - An end user can personalize items in specific regions (for inquiry pages if enabled).

Web Bean Structure

Focus	Name	Shown
	Page Layout: Expense Reports	Yes
	Page Button Bar: (buttonBar)	Yes
	Button: Create New Expense Report	Yes
	Button: Import Spreadsheet Expenses	Yes
	Query: (QueryRN)	Yes
	Advanced Table: List of expense r...	Yes
	Column: (NameColumn)	Yes
	Column: (ReportNumberColumn)	Yes
	Switcher: Report Number	Yes
	Column Header	
	Column: (ReportDateColumn)	Yes
	Column: (ReportSubmittedDateColumn)	Yes
	Column: (StatusColumn)	Yes
	Column: (ReceiptsStatusColumn)	Yes
	Column: (ReportTotalColumn)	Yes
	Column: (PurposeColumn)	Yes
	Column: (ViewPayablesColumn)	Yes
	Column: (DuplicateColumn)	Yes
	Column: (DueDateColumn)	
	Column: (HeaderAttachmentsColumn)	Yes
	Table Actions	
	Export Button: Export	Yes
	Simple Search Mappings	

← Page

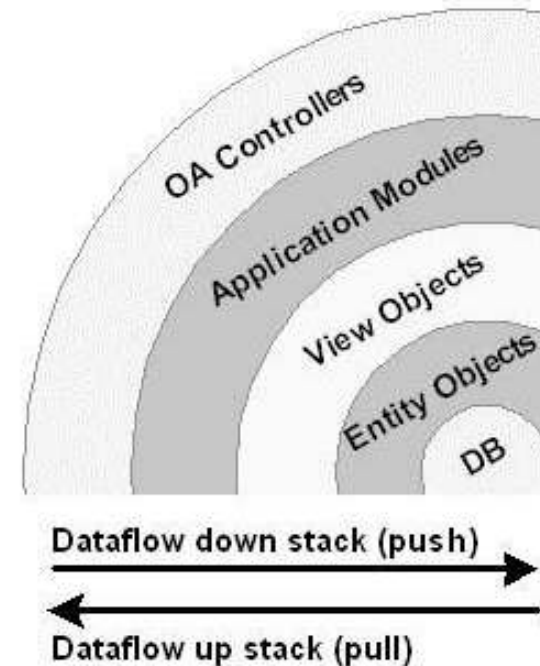
← Item Region

← Item

← Item

Business Components For Java

- Application Module (AM)
 - provides transaction context and established a DB connection
- **View Object (VO)**
 - DB query
- Entity Object (EO)
 - one-to-one mapping to DB tables
 - DML + validation
- Controller (CO)
 - responds to user actions and directs application flow
- ...



View Objects (VOs)

About View Objects

Printable Page

Select a view object

View Object Details

Substitute

Version **OAViewRowImpl.java 120.17**

Query

```
SELECT * FROM (SELECT EmployeesEO.EMPLOYEE_ID, EmployeesEO.FULL_NAME AS EMPLOYEE_NAME, EmployeesEO.EMAIL_ADDRESS AS EMPLOYEE_EMAIL, EmployeesEO1.EMPLOYEE_ID AS MANAGER_ID, EmployeesEO1.FULL_NAME AS MANAGER_NAME, EmployeesEO1.EMAIL_ADDRESS AS MANAGER_EMAIL, flkp.meaning AS POSITION_DISPLAY, EmployeesEO.MIDDLE_NAMES, EmployeesEO.TITLE FROM FWK_TBX_EMPLOYEES EmployeesEO, FWK_TBX_EMPLOYEES EmployeesEO1, FWK_TBX_LOOKUP_CODES_VL flkp WHERE EmployeesEO.MANAGER_ID = EmployeesEO1.EMPLOYEE_ID (+) AND EmployeesEO.POSITION_CODE = flkp.lookup_code AND flkp.lookup_type = 'FWK_TBX_POSITIONS') QRSLT ORDER BY EMPLOYEE_ID ASC
```

SQL Query

Entity Objects

Entity Object	Properties	Version
jasmina.oracle.apps.ak.schema.server.WExtEmployeesEO	{}	OAEntityImpl.java 120.18

Attributes

Name	Type
EmployeeId	oracle.jbo.domain.Number
EmployeeName	java.lang.String
EmployeeEmail	java.lang.String
ManagerId	oracle.jbo.domain.Number
ManagerName	java.lang.String
ManagerEmail	java.lang.String
PositionDisplay	java.lang.String
MiddleNames	java.lang.String
Title	java.lang.String

Attributes

[Return to About Page](#)

Printable Page

Personalization Profile Options





Disable Self-service Personal

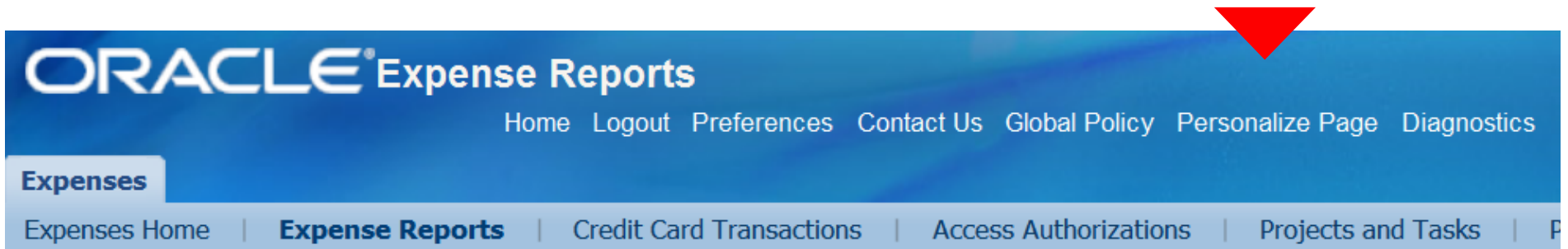
(FND_DISABLE_OA_CUSTOMIZATIONS)

- Created for Oracle Support
- Default: No
- Yes/No @ Site or Application Level
- Turns all personalization off

Personalize Self-service Defn

(FND_CUSTOM_OA_DEFINTION)

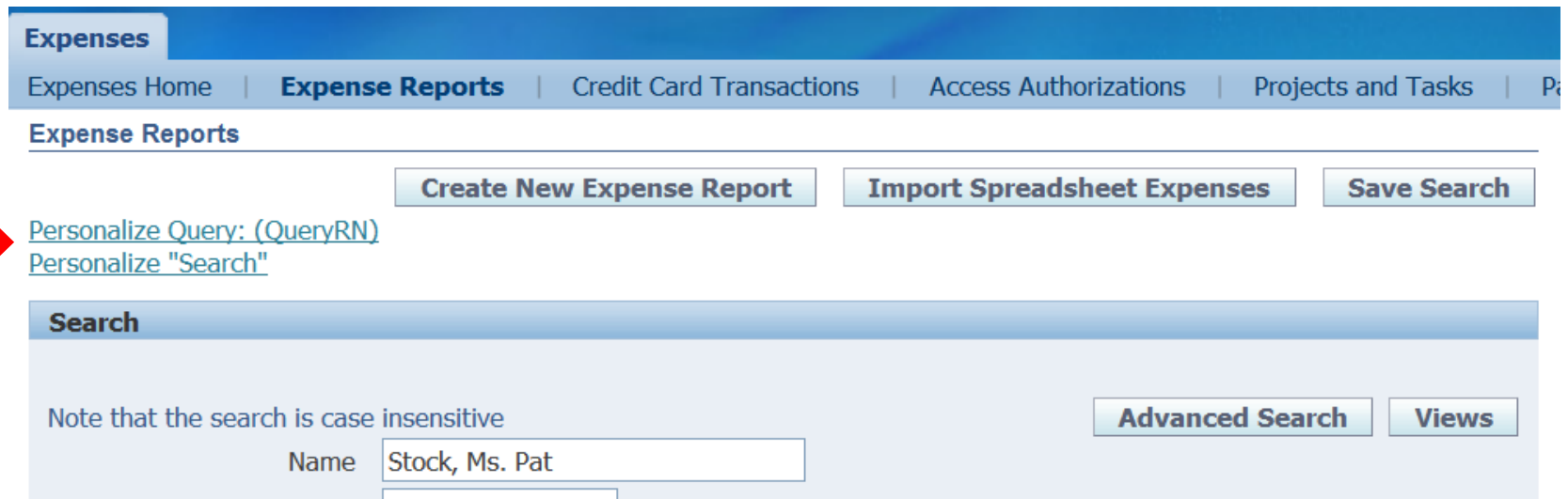
- Default: No
- Yes/No @ Administrator Level
- A global **Personalize Page** button appears on each OA Framework-based application page



The screenshot shows the Oracle Expense Reports application header. The main title is "ORACLE Expense Reports". Below the title, there is a navigation menu with the following items: Home, Logout, Preferences, Contact Us, Global Policy, Personalize Page, and Diagnostics. A red triangle points to the "Personalize Page" button. Below the navigation menu, there is a sub-menu for "Expenses" with the following items: Expenses Home, Expense Reports, Credit Card Transactions, Access Authorizations, Projects and Tasks, and P.

FND:Personalization Region Link Enabled (FND_PERSONALIZATION_REGION_LINK_ENABLED)

- Default: Null (not set)
- Yes/No
- **Personalize Region** links appear above each region in a page.



The screenshot displays the Oracle Expenses interface. At the top, there is a blue navigation bar with the 'Expenses' tab selected. Below this, a breadcrumb trail shows 'Expenses Home | Expense Reports | Credit Card Transactions | Access Authorizations | Projects and Tasks | Personalization'. The main content area is titled 'Expense Reports' and contains three buttons: 'Create New Expense Report', 'Import Spreadsheet Expenses', and 'Save Search'. Below these buttons, there are two links: 'Personalize Query: (QueryRN)' and 'Personalize "Search"'. A red arrow points to the 'Personalize "Search"' link. Below the links is a 'Search' section with a note: 'Note that the search is case insensitive'. To the right of the note are two buttons: 'Advanced Search' and 'Views'. A search input field is visible with the text 'Stock, Ms. Pat' entered.

User-Level Personalization



End User Personalizations

- Users can create and save several personalized views that can be retrieved conveniently at a later time.
- Limited to Query regions with search results tables.
 1. Change the number of rows displayed in a table.
 2. Hide/show regions and items
 3. Change the layout order of regions and items
 4. Define up to three sorting levels for tabulated data.
 5. Filter (restrict query) tabular data.
 6. Change item labels and region headers.
 7. Enable totals for table columns, when applicable.



Demo

DEMONSTRATION

Administrative-Level Personalization



Administrator's Personalization

1. Number of displayed rows
2. Product branding
3. Region header icon
4. Hide/show regions and items
5. Order of regions and items
6. Hide/show descriptive flexfields
7. Sorting levels
8. Filter
9. Change labels and headers
10. Change required state
11. Change update allowed state
12. Enable totals for table columns
13. Alter CSS
13. Setup a default value
14. Define tips
15. Add new items
16. System Personalization
Cross application (OA Framework and Application Object Library)
 - Branding
 - Stylesheets
 - Images
 - Responsibilities
 - Menues
 - Messages
 - Lookup Codes
 - Pre-packed flexfields
 - Customizing Look and Feel

Initiating Admin-Level Personalization

1. Search for the page using the Functional Administrator Home page and personalize the page without running it.
2. Run the actual page in Oracle E-Business Suite and initiate the Personalization UI from the Personalize Page global link or the Personalize Region link.

Branding

Corporate Branding



- Default:
Oracle Corporate Image
(/OA_MEDIA/FNDSSCORP.gif)
- *Globally* override:
set profile option
Corporate Branding Image for Oracle Applications
(FND_CORPORATE_BRANDING_IMAGE)
- For a specific page:
create an administrative-level personalization on the
corporateBranding page element

Icons

- gif image files in the OA_MEDIA directory
- Oracle Browser Look and Feel (BLAF) Guidelines @ Oracle Technology Network (OTN)
 - Icon specification
 - Naming Strategy
 - Repository
- 1. Replace the appropriate image file (globally)
- 2. Administrative-level personalization on the image page element by setting Image URI property (specific usage)

Item Properties

- Initial Value
 - FND:OA:Enable Defaults
- Read-only
 - SPEL
- Prompt
- Required
- Rendered
- Table properties:
 - Nr. Rows Displayed
 - Column Header
- ...

Create New Items

1. Attachment Image
2. Attachment Link
3. Attachment Table
4. Button
5. Category Map
6. Column
7. Entity Map
8. Export Button
9. Flex
10. Flexible Layout
11. Flexible Content
12. Form Value
13. Formatted Text

14. Image
15. Link
16. Message Check Box
17. Message Choice
18. Message Download
19. Message File Upload
20. Message Inline Attachment
21. Message Lov Input
22. Message Radio Group
23. Message Styled Text
24. Message Text Input
25. Primary Key
26. Raw Text

27. Separator
28. Servlet Include
29. Spacer
30. Stack Layout
31. Static Styled Text
32. Tip
33. URL include

Flexfields

1. Already built into the page.
 - Enable the flexfield.
2. Not already built into the page, but underlying view object has flexfield columns.
 - Add a Flex region and specify:
 - Appl Short Name
 - Name of the flexfield
 - Type (key or descriptive)
 - View Instance
3. Not already on the page and the view object doesn't contain the flexfield columns.



Demo

DEMONSTRATION

Translating Personalization



Translation

- Inline translation
 - Xliff Export Root Path (FND_XLIFF_EXPORT_ROOT_PATH)
 - Xliff Import Root Path (FND_XLIFF_IMPORT_ROOT_PATH)
- OAF Extension Translation Toolset
 - XLIFF Extractor
 - XLIFF Importer

Translate: Site - Site

Base Language **American English** Cancel Apply

Choose Languages

Attribute	Style	English	Croatian
Prompt	Message Styled Text	Title	Naslov

Cancel Apply

Deploying Personalization




Exporting/Importing Personalizations

- Functional Administrator > Export/Import UI
- Command line tool

For More Information

- Oracle® Application Framework Personalization Guide, Release 12.1
- Oracle Application Framework Developer's Guide, Release 12.1.1
- OA Component Reference


search.oracle.com



or

oracle.com





The preceding is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.



ORACLE IS THE INFORMATION COMPANY

ORACLE®