

ERP- Oracle Apps

Lesson 10: Form Registration

August 14, 2014

Proprietary and Confidential

~1~

IGATE
Speed. Agility. Simplicity.

Lesson Objectives

➤ **At the end of the session you will be able to:**

- Know about the Function Security
- Define a New Menu Structure
- Data groups
- Integrate Applications with Custom Applications
- Register the Forms, Functions and Create the Menu of Functions



Form Registration

- When you develop your application components, you must place them in the appropriate directories on the appropriate machines so that Oracle Application Object Library can find them
- Compile the form on the OraApps Server using predefined commands to create the fmx file

August 14, 2014 Proprietary and Confidential < 3 >

IGATE
Speed. Right. Everywhere.

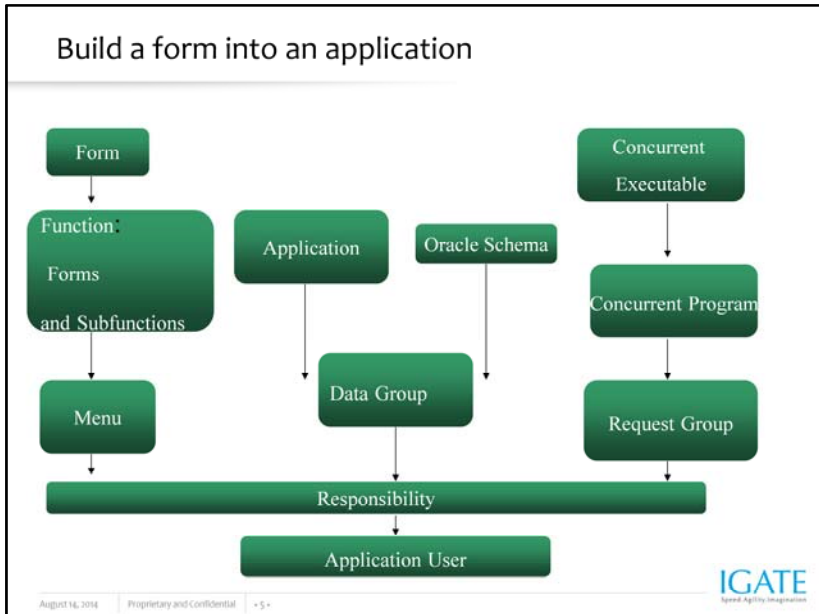
For example, reports written using Oracle Reports are typically placed in a subdirectory called reports on the concurrent processing server machine, while forms belong in separate subdirectories, depending on their territory and language (such as US for American English, D for German, and so on), on the forms server machine.

The fmx file of the form must be in all uppercase and must be located in forms/<language> subdirectory of your application directory structure.

For example : XXCOFI_TOP/forms/US where \$XXCOFI_TOP is the product directory and maps to /ccnv01/oracle/ccnvap1/xxcofi/1.0.0

Form Registration Contd...

- To register a form, the pre-requisite is to register your application with Oracle Application Object Library
- The combination of the application name and form name uniquely identifies your form
- **Note:** The form cannot be compiled and run on the client machine



One of the most important functions of a system administrator is to manage security for the Oracle Applications environment. In Oracle Applications security is implemented by creating user signons and relating them to a responsibility. The responsibility specifies the actual access authorizations. I.e Users then have access to all the functionality associated with that responsibility. You can also create any custom responsibilities you need apart from the standard responsibilities.

Application Security: Overview

User Security

You authorize a user to sign on to Oracle Applications by defining an application user. You then assign one or more responsibilities to the new user.

Responsibility Security

A responsibility is a collection of authorizations that allow access to:

- A specific application or applications
- A set of books

A restricted list of windows, functions, and reports

Each user has one or more responsibilities, and several users can share the same responsibility.

A system administrator can assign standard or with Oracle Applications or create new custom responsibilities as needed.

Defining a New User**Security > User > Define**

Define an authorized user of Oracle Applications by specifying a username and password. Grant application privileges by assigning one or more responsibilities to the user.

When you install Oracle Applications, a standard Applications user called SYSADMIN is created for you. Several default responsibilities are also created. You can also create custom responsibilities.

What Is a Data Group?

A data group is a collection of pairings of an application with an Oracle ID. Data groups automatically support concurrent processing and cross-application reporting. They guarantee that an application connects to a unique application database account.

Note: The installation process automatically defines data groups for Oracle Applications, so you only need to define additional data groups based on your specific requirements.

Application-Oracle ID Pairs

An application can be listed only once in a data group.

An Oracle ID can be paired with more than one application.

A custom application registered with Oracle Applications can be included in a data group.

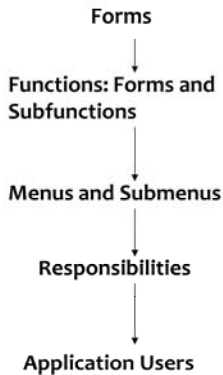
Data Groups and Application Object Library

Application Object Library owns the database tables referred to during concurrent processing and the standard submission of reports by any Oracle Application. Therefore all applications need access to the Application Object Library tables. When you are defining a data group, the application Application Object Library is automatically included. The Application Object Library's Oracle ID cannot be updated or deleted.

By defining a data group, you can determine which Oracle account (Oracle ID) an application's windows, reports, or concurrent programs connect to. Use data groups to grant application database account privileges to a responsibility and the requests that it submits

You can control the relationship among applications, forms, and concurrent programs by defining a data group.

Setting Up Function Security



- Developer registers each form with AOL
- Developer registers the form again as a function
- Developer or system administrator adds functions (both forms and subfunctions) to a menu, often as a hierarchical structure of submenus
- The Menu is attached to a particular Responsibility; For example: Items is a menu under the Responsibility Inventory

August 14, 2014 Proprietary and Confidential 8

IGATE
Speed Right. Measure Right.

Function security is the mechanism by which user access to applications functionality is controlled.

Oracle Applications GUI-based architecture aggregates several related business functions into a single form. Because all users should not have access to every business function in a form, Oracle Applications provides the ability to identify pieces of applications logic as functions. When part of an application's functionality is identified as a function, it can be secured (i.e., included or excluded from a responsibility).

Application developers register functions when they develop forms. A System Administrator administers function security by creating responsibilities that include or exclude particular functions.

Terms

Function: A function is a part of an application's functionality that is registered under a unique name for the purpose of assigning it to, or excluding it from, a responsibility.

There are two types of functions: form functions, and non-form functions. For clarity, we refer to a form function as a form, and a non-form function as a subfunction, even though both are just instances of functions in the database.

Function Security Contd...

Menu Level 1

Function

Menu Level 2

Function

Menu Level 3

Subfunction

Function

Menu Level 2

Subfunction

Menu Level 2


Function

Function

- **Function:** A set of executable code available as a menu option

- **Subfunction:** A subset of a form's functionality

August 14, 2014
Proprietary and Confidential
< 9 >



Speed. Right. Everywhere.

Function Security

You can manage security by controlling access to individual functions through menu definitions.

About Functions

A function is a set of code in Oracle Applications that is executed only if the name of the function is present in a list maintained within a responsibility.

There are two types of functions: a form function and a nonform function or subfunction. A subfunction represents a securable subset of a form's functionality.

Adding Functions to or Removing Functions from a Responsibility

Maintain menu structures while eliminating specific functionality.

Exclude individual functions from a responsibility.

Adding or Removing Menus of Functions

Use menus to group functions together.

Exclude groups of functions by excluding a menu from a responsibility.

Navigator Menu Displays

Navigator displays only the menu items needed for navigation. Because you cannot choose subfunctions from a menu, they are not displayed. Submenus consisting only of subfunctions are also not displayed.

Menus

- A menu is a hierarchical arrangement of functions and menus of functions
- Each responsibility has a menu assigned to it.

August 14, 2014 Proprietary and Confidential 100



Menu: A menu is a hierarchical arrangement of functions and menus of functions. Each responsibility has a menu assigned to it.

Menu Entry: A menu entry is a menu component that identifies a function or a menu of functions. In some cases, both a function and a menu of functions correspond to the same menu entry. For example, both a form and its menu of subfunctions can occupy the same menu entry.

Responsibility: A responsibility defines an application user's current privileges while working with Oracle Applications. When an application user signs on, they select a responsibility that grants certain privileges, specifically:

The functions that the user may access: Functions are determined by the menu assigned to the responsibility.

The concurrent programs, such as reports, that the user may run: The application database accounts that forms, concurrent programs, and reports connect to.

Defining a New Menu Structure



August 14, 2014

Proprietary and Confidential

© 10+

IGATE
Speed. Agility. Simplicity.

Exclusion of Functions and Menus

Use exclusion rules to customize a responsibility. You can exclude functions at any level.

When you exclude a menu item from a responsibility, all menus and functions that are nested in that menu are also excluded.

When you exclude a function from a responsibility, all occurrences of that function throughout the menu structure of a responsibility are excluded.

New Menu Structure

Use the Menus form to define menus pointing to functions that you want to make available to a new responsibility.

Make New Responsibilities, Not New Menus

If possible, apply exclusion rules to existing menus to customize a responsibility rather than constructing an entirely new menu structure.

Determine the Application Functionality Required

Different jobs require access to different function groups.

Identify predefined menus, forms, and form subfunctions to use as entries when defining a new menu.

Plan Your Menu Structure

Start with a blank Menus form (blank screen). Menus cannot be copied. A menu saved under a different name overwrites the original menu (there is no Save As feature).

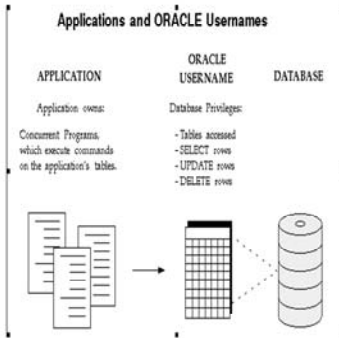
Start with the lowest-level menus. A menu must be defined before it can be selected as an entry on another menu.

Assign menus and functions to higher-level menus. Document your menu structure by printing the Function Security Menu Report.

Assign the menu structure to a new responsibility by using the responsibilities form.

Create a new responsibility.

Data Groups



August 14, 2016 Proprietary and Confidential 13

IGATE
Speed Right, Inspire Success

Defining Data Groups

Data groups specify your applications database connections.

Introduction to Data Groups

A data group is a list of Oracle Applications and the Oracle username assigned to each application. Each application in a data group must have an Oracle username assigned to it. An application may be listed only once in a data group.

An Oracle username and password allow access to an application's tables in an Oracle database. Each Oracle username in a data group determines the database tables and table privileges accessible by the corresponding application or applications.

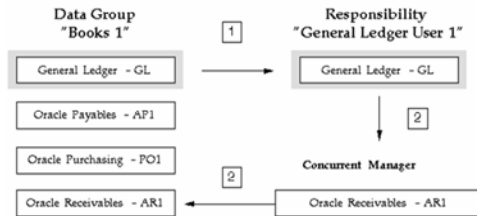
Data Group's Purpose

Each responsibility has a data group associated with it. A data group serves two purposes:

1. It identifies the Oracle username that forms connect to when you select the responsibility.
2. Concurrent managers use a data group to match the application that owns a report or concurrent program (submitted by a user of the responsibility) with an Oracle username.

Data Groups Contd...

Using Data Groups with multiple product installations.



August 14, 2014 Proprietary and Confidential - 14 -

IGATE
Speed Agile Transformation

Using Data Groups with multiple Sets of Books

Use data groups to support multiple installations of an Oracle Applications product (for example, Oracle Payables) that supports multiple sets of books, where a different application is associated with each set of books. See: Using Data Groups with multiple product installations.

For example, with two installations of Oracle Payables supporting two Sets of Books, use data groups to indicate which Oracle Payables Oracle username to access from a certain General Ledger responsibility.

Define a data group for each application installation (set of books).

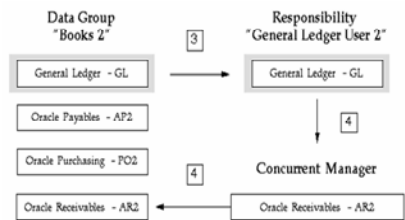
Define a responsibility for each application installation (set of books), and assign the appropriate data group to each responsibility.

Using Data Groups to include custom applications

Use data groups to include custom applications you develop using Oracle's Application Object Library. To integrate a custom application with Oracle Applications, you must register the application using the Applications window. See: Applications.

An example of using two Data Groups to support two installations of Oracle Payables, Oracle Purchasing, and Oracle Receivables is shown above.

Data Groups Contd...



- 1 Data Group Books 1 is assigned to Responsibility General Ledger User 1.
- 2 A user of responsibility General Ledger User 1 submits an Oracle Receivables report, which runs accessing data with ORACLE ID AR1 privileges.
- 3 Data Group Books 2 is assigned to Responsibility General Ledger User 2.
Note: both responsibilities attach to the same set of forms (same ORACLE ID).
- 4 A user of responsibility General Ledger User 2 submits an Oracle Receivables

Basic Definitions

- **Form**
 - An Oracle Forms .fmx file located in their application basepath/forms/US (or appropriate language directory)
- **Function**
 - A function is a part of an application's functionality, registered under a unique name that can be assigned to a responsibility
- **There are two types of functions:**
 - Form functions (forms)
 - Subfunctions

Basic Definitions Contd...

- **Form function**
 - Invokes an Oracle Forms form
 - A form has the unique property that users may navigate to it from the Navigate window
- **Subfunction**
 - It is a subset of a form's functionality
- **Menu**
 - A menu is a hierarchical arrangement of functions and menus of functions

Basic Definitions Contd...

➤ **Menu Entry**

- A menu entry is a menu component that identifies a function or a menu of functions

➤ **Responsibility**

- When application users sign on, they select a responsibility that determines, among other things, the functions they may access
- Available functions are determined by the menu assigned to the current responsibility

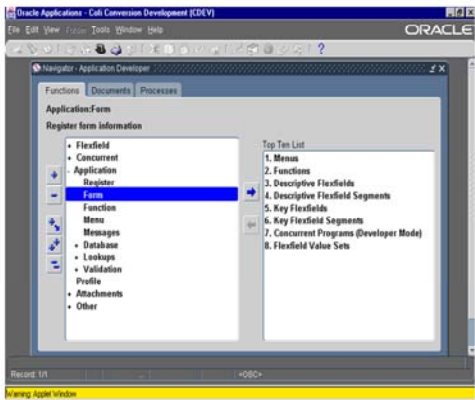
Register a Form with AOL

Select the responsibility Application Developer

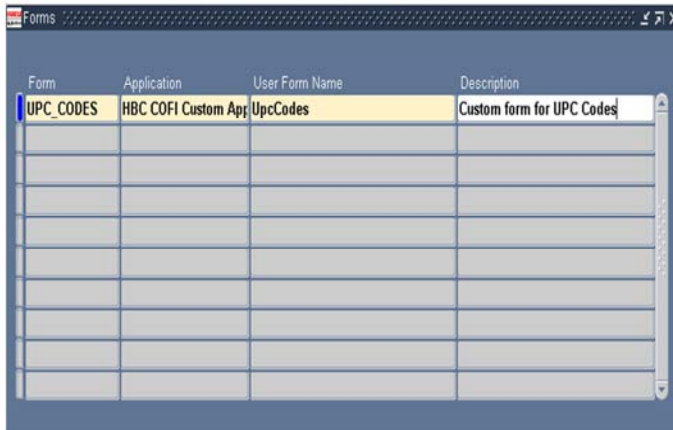


Register a Form with AOL Contd...

Select Form under Application as shown in the figure



Register a Form with AOL Contd...



Form	Application	User Form Name	Description
UPC_CODES	HBC COFI Custom App	UpcCodes	Custom form for UPC Codes

August 14, 2014

Proprietary and Confidential

+ 21 +

IGATE
Speed. Agility. Simplicity.

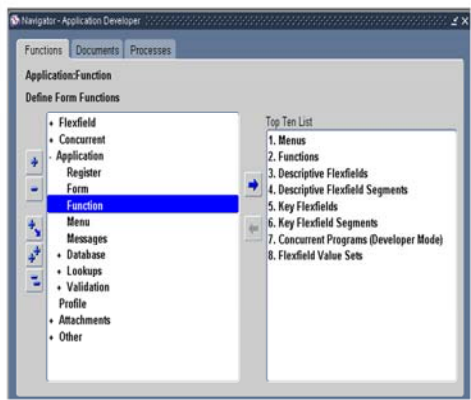
Enter the filename of the form (without the extension)

The application is the one that owns your form. The application tells Oracle Application Object Library where to find your form file

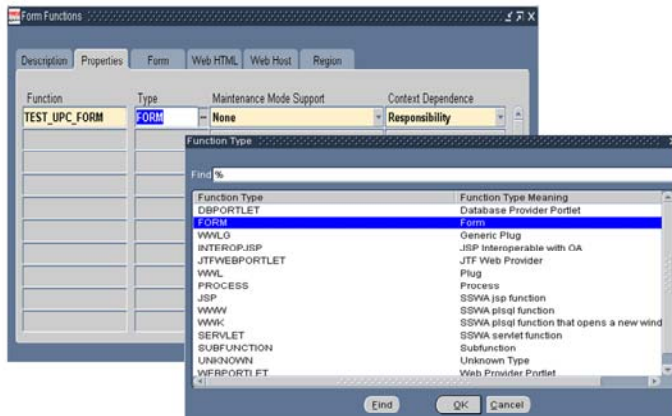
This is the form name you see when selecting a form using the Functions window

Register a Function with AOL Contd...

➤ **Select function under Application**



Register a Function with AOL Contd...



August 14, 2014 Proprietary and Confidential 23

IGATE
Speed. Agility. Simplicity.

Function: Users do not see this unique function name, but you use it in your code when starting a form using function security routines or testing for function availability.

The function is a form type function which invokes the Oracle Forms file

Register a Function with AOL Contd...

The screenshot shows two overlapping windows from the Oracle ERP system. The background window is titled 'Form Functions' and has tabs for 'Description', 'Properties', 'Form', 'Web HTML', 'Web Host', and 'Region'. The 'Form' tab is active, displaying a table with columns: Function, Form, Application, and Parameters. The first row contains the values 'TEST_UPC_FORM', 'UpcCodes', 'HBC COFI Custom App', and is empty. The foreground window is titled 'Forms' and has a search bar containing 'UpcCodes%'. Below the search bar is a table with columns: Form Name, Application, and a third column. The first row in this table is 'UpcCodes', 'UPC_CODES', and 'HBC COFI Custom App'. At the bottom of the 'Forms' window are buttons for 'Find', 'OK', and 'Cancel'.

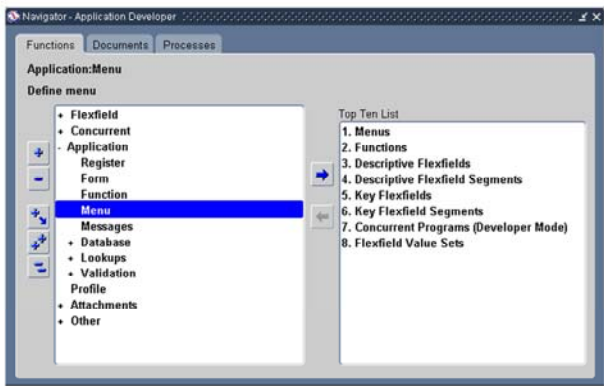
Function	Form	Application	Parameters
TEST_UPC_FORM	UpcCodes	HBC COFI Custom App	

Form Name	Application	
UpcCodes	UPC_CODES	HBC COFI Custom App

If you are defining a user form, select the user form name and application of your form

Create a Menu of Functions

Select Menu under Application



Create a Menu of Functions Contd...

The screenshot shows the 'Menus' form in Oracle. The 'Menu' field is set to 'INV_ITEMS'. The 'User Menu Name' is 'INV_ITEMS'. The 'Menu Type' is 'Standard'. The 'Description' is 'Inventory Items Menu'. Below these fields is a table with columns: Seq, Prompt, Submenu, Function, Description, and Grant. The table contains 17 rows of menu items, with the last row (Seq 17) highlighted in yellow.

Seq	Prompt	Submenu	Function	Description	Grant
8	Item Search		Items Search	Item Search	<input checked="" type="checkbox"/>
9	Pending Status		Pending Status	Pending Status	<input checked="" type="checkbox"/>
10	Documents		Inventory Documents	Maintain Inventory Documents	<input checked="" type="checkbox"/>
11	Import	INV_ITEMS_OI		Item Open Interfaces Menu	<input checked="" type="checkbox"/>
12	Delete Items	INV_BOMFODEL_MENU	Inventory Delete Items	Delete Items	<input checked="" type="checkbox"/>
13	Copy Item Attrib		Copy Item Attributes	Copy Item Attributes	<input checked="" type="checkbox"/>
14	ICQ		ICQ		<input checked="" type="checkbox"/>
15	Test Folder		Test Folder		<input checked="" type="checkbox"/>
16	Test UPC		Test UPC		<input checked="" type="checkbox"/>
17	Test UPC Form		Test UPC Form		<input checked="" type="checkbox"/>

August 14, 2014 Proprietary and Confidential - 26 -

IGATE
Speed. Rights. Simplicity.

Select Menu under Application

Press F11 to enter query mode, enter the menu name (wildcard allowed) for the Inventory responsibility and press ctrl-F11 to execute

Menu

Choose a name that describes the purpose of the menu

User Menu Name

A menu name that is used when a responsibility calls a main menu or when one menu calls the another

Sequence

Enter a sequence number to specify where a menu entry appears relative to other menu entries in a menu

Navigator Prompt

Enter a user-friendly , intuitive prompt that would be displayed by your menu in the Navigate window

Leave the prompt blank for subfunctions that should not appear in the Navigator menu listing even though they are on the menu

Submenu

Calls another menu, from which you can select menu entries

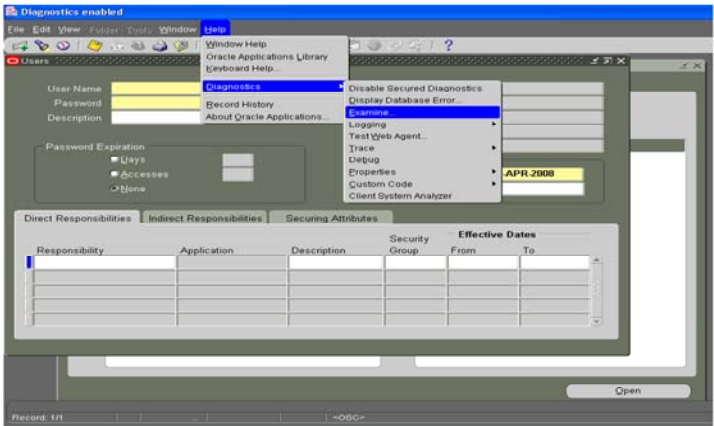
Function

Call a function that is to be included in the menu. A form function (form) appears in the Navigate window and allows access to that form.

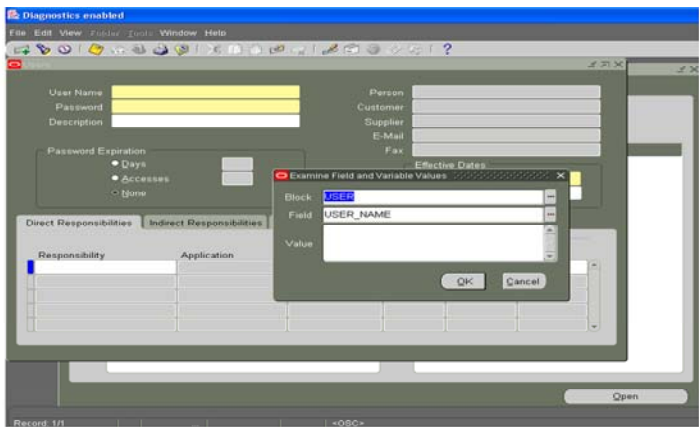
Description

Enter a description of the menu choice. This description appears in the Description field under the menu path in the Navigator

To Know Value of Columns



To Know Value of Columns



Instructor Demo

- Demo to view a form in Oracle Applications and Register a Form with AOL

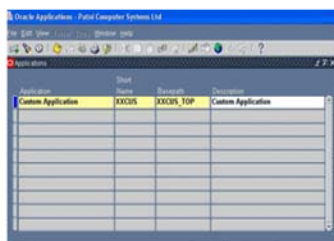


August 14, 2014 Proprietary and Confidential ~ 29 ~

IGATE
Speed. Agility. Simplicity.

Integrate Applications with Custom Applications

- Register your custom application with the Application Object Library. It is recommended to use an XX as the prefix to the custom schema short name so that it does not conflict with any future Oracle Application short names
- Log into Applications as the System Administrator and navigate to: Application -> Register



Integrate Applications with Custom Applications Contd...

- Create a custom directory tree for your custom schema as the APPLMGR user. Use the basepath parameter from the Application registration for the top level directory. This top level directory will reside just under APPL_TOP. The subdirectories under the custom directory may vary depending on the server type (forms server, concurrent processing server, etc...). Make sure that the rights/protections are open for the world (rwx)
- For example:
APPL_TOP (/appl/v1100000) | XXCUS_TOP
(/appl/v1100000/XXCUS) --> other product directories

bin forms html lib log mesg out reports
US US



Integrate Applications with Custom Applications Contd...

XCUS_TOP

```

192.168.27.181 - PuTTY
f pwd
f /data/appall/visionapp/XCUS/11.5.0
f ls
BSF      emp.log      lib          out          xx.rdf
Converter.c  forms      log          reports
afiedt.buf  hist.txt   msg         sql
bin         html       nysa_budgeting temp
f ls -tl
total 36
drwxrwxrwx 2 applvis dba      512 Mar 29 11:05 out
-rw-r--r-- 1 custvis other   39 Mar 24 10:53 afiedt.buf
drwxrwxrwx 3 applvis dba     1536 Mar 24 10:11 bin
drwxrwxrwx 3 applvis dba      512 Mar 21 18:27 forms
drwxr-xr-x 7 custvis other     512 Feb 20 14:23 BSF
-rw-r--r-- 1 custvis other      0 Feb 15 09:46 xx.rdf
-rw-r--r-- 1 custvis other     221 Feb  9 12:54 emp.log
drwxr-xr-x 2 custvis other     512 Jan 17 11:55 temp
-rw-r--r-- 1 custvis other      4 Jan  8 10:36 Converter.c
-rw-r--r-- 1 custvis other      0 Dec  9 13:12 hist.txt
drwxr-xr-x 4 custvis other     512 Sep 19 2005 nysa_budgeting
drwxrwxrwx 3 applvis dba      512 Sep 16 2005 reports
drwxrwxrwx 2 applvis dba     3072 Sep 14 2005 msg
drwxrwxrwx 2 applvis dba      512 Jun  3 2005 sql
drwxrwxrwx 3 applvis dba      512 Apr 11 2005 html
  
```

August 14, 2014

Proprietary and Confidential

- 32 -

IGATE
Speed Applications

Integrate Applications with Custom Applications Contd...

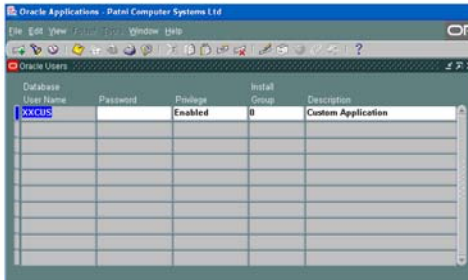
- Modify the applications environmental file (example: APPLSYS.env) to include the custom schema basepath as the APPLMGR user
- For example: `XXCUS_TOP="/appl/v1100000/XXCUS" export XXCUS_TOP`
- Register the custom schema as an Oracle user

Integrate Applications with Custom Applications Contd...

- Create the user in the RDBMS database using SQL*Plus under the system account. Give the user a default and temporary tablespace with quotas and then grant the CONNECT role
- For example: Connect to Oracle as System user
SQL> create user XXCUS identified by CUST default tablespace USER_DATA
temporary tablespace TEMP quota unlimited on USER_DATA quota
unlimited on TEMP;
- SQL> grant connect to XXCUS identified by CUST;
XXCUS is the product short name, CUST is the password for the custom schema,
USER_DATA and TEMP are existing tablespaces

Integrate Applications with Custom Applications Contd...

- Register the user with the Application Object Library.
- Log into Applications as the System Administrator and navigate to:
Security -> ORACLE -> Register. For example:



Database User Name	Password	Privilege	Install Group	Description
XXCUS		Enabled	0	Custom Application

August 14, 2014

Proprietary and Confidential

- 35 -



 Speed. Right. Everywhere.

Register an ORACLE username with Oracle Applications. An ORACLE username grants access privileges to the ORACLE database. This activity is performed by the DBA.

The installation process always registers your ORACLE username, so you need not register it unless you create a custom application using Oracle Application Object Library, or if you wish to associate an additional ORACLE username with Oracle Applications.

If you register an ORACLE username as a "restricted" ORACLE username, you submit a concurrent request to set up read-only privileges to the Oracle Application Object Library tables. An "enabled" ORACLE username has all privileges to those tables. A "disabled" ORACLE username has no privileges to those tables.

If you do not 'register and enable' your ORACLE username or if you disable a registered ORACLE username, the user cannot use Oracle Application Object Library features such as menus and flexfields.

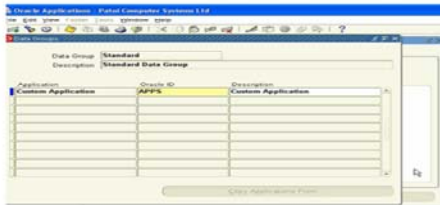
You should not change the registration of any ORACLE usernames that the installation process registers, other than changing the passwords.

Passwords for the APPS Accounts

The applsys password must be identical to the password for the APPS accounts (APPS, APPS2, APPS3). The uniform passwords enable the different sets of books to operate correctly.

Integrate Applications with Custom Applications Contd...

- Add the custom schema to a data group. Log into Applications as the System Administrator and navigate to: Security -> ORACLE -> DataGroup
- It is recommended that you use the STANDARD datagroup and pair the custom schema with APPS or you can add a new data group. This depends upon the requirements



August 14, 2014

Proprietary and Confidential

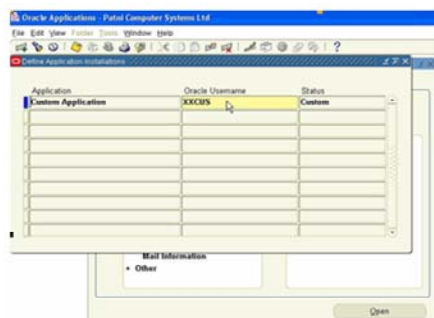
- 35 -

IGATE
Speed Agile Transformation

Since the application will be accessing the database objects with user apps, there should be synonyms in apps for the custom objects in the custom schema xxcus, AND apps should be given the necessary privileges select/insert/update/delete/execute) on the objects in xxcus.

Integrate Applications with Custom Applications Contd...

- Register your custom application with Alerts. Log into Applications as the Alert Manager and navigate to System -> Installations



Integrate Applications with Custom Applications Contd...

- Create your custom tables, indexes, views and sequences. It is suggested that you add WHO columns to your custom tables so that Oracle Applications can keep track of customizations
- Register your custom schema's tables (including flexfields) with the PL/SQL package AD_DD. You use the procedure AD_DD.register_table for the custom schema tables and AD_DD.register_column for the custom schema table columns
- Issue a commit after the pl/sql procedure is executed. The results can be seen in the application by navigating to Application→Database→Table using the Application Developer responsibility

August 14, 2014 Proprietary and Confidential - 38 -



execute ad_dd.register_table (appl short name,table
name,table type, next extent, % free, % used)

For example: \$ sqlplus apps/apps
SQL> execute ad_dd.register_table ('XXCUS',
'CUST_TABLE', 'T', 8,10, 90)
appl short name=XXCUS, table name=CUST_TABLE, table
type=T, next extent=8, % free=10, % used=90

execute ad_dd.register_column (appl short name,table
name,column name, column seq, column type, column
width, null, translate)

For example: \$ sqlplus apps/apps

SQL> execute ad_dd.register_column ('XXCUS',
'CUST_TABLE', 'CUST_NO',1,'NUMBER',5,'N', 'N')

Here appl short name=XXCUS, table name=CUST_TABLE,
column name=CUST_NO, column seq=1, column
type=NUMBER, column width=5, null=N, translate=N.
Issue a commit after the pl/sql procedure is executed. The
results can be seen in the application by navigating to
Application→Database→Table using the Application
Developer responsibility.

Integrate Applications with Custom Applications Contd...

- Run the custom schema against the APPS_DDL and APPS_ARRAY_DDL packages
- Run the scripts \$AD_TOP/admin/sql/adaddls.pls, adaaddls.pls, adaddlb.pls and then adaaddlb.pls (in this order) under SQL*Plus:

August 14, 2014 Proprietary and Confidential - 39 -



For example :

```
$ sqlplus apps/apps
SQL> @$AD_TOP/admin/sql/adaddls.pls
system_pword custom_schema
custom_schema_pword
SQL> @$AD_TOP/admin/sql/adaaddls.pls
system_pword custom_schema
custom_schema_pword
SQL> @$AD_TOP/admin/sql/adaddlb.pls
system_pword custom_schema
custom_schema_pword
SQL> @$AD_TOP/admin/sql/adaaddlb.pls
system_pword custom_schema
custom_schema_pword
```

Integrate Applications with Custom Applications Contd...

- **Integrate your database objects with the APPS schema by granting APPS the access to your custom schema's objects**
 - Grant all privileges from each custom data object to APPS
 - Create a synonym in APPS to each custom data object
 - Create custom code objects in APPS

August 14, 2014

Proprietary and Confidential

- 80 -

IGATE
Speed. Agility. Simplicity.

For example: `$ sqlplus xxcus/cust`

SQL> grant all on CUST_TABLE to APPS

For example: `$ sqlplus apps/apps`

SQL> create synonym APPS.CUST_TABLE for
XXCUS.CUST_TABLE

`$ sqlplus apps/apps`

SQL> create function CUST_FUNCTION

Summary

➤ **In this session we covered about:**

- Setting up the Function Security
- Defining a New Menu Structure
- Data groups
- Integrate Applications with Custom Applications
- Registering the Forms, Functions and Creating the Menu of Functions



Summary

➤ **In this lesson, you should have learned how to:**

- Descriptive flexfields gather additional information.
- Design the descriptive flexfield to support the different needs of different users.
- Define flexfield level attributes.
- Define global segments for the Global Data Elements structure.
- Define a reference or context field if using different contexts.

