

Understanding OTL Timecard Customizations

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Presented By

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Time Entry Basics

Timecard Configuration

Common Customizations

- ❖ Adding Text Field
 - ❖ Adding Choice List
 - ❖ Adding LOV
-

Time Entry Rules

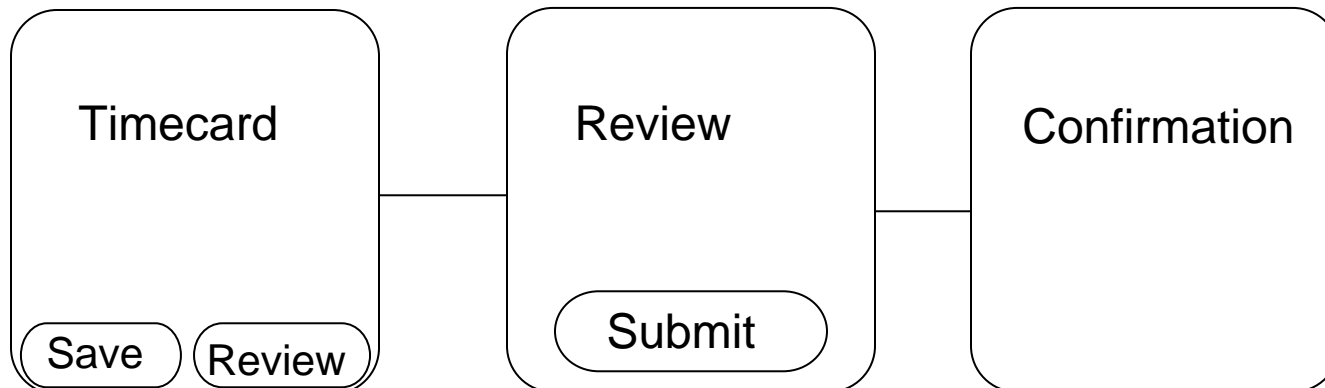
OA Framework Personalization

Questions and Answers



- **OTL – Single Point of Time Entry for use by multiple applications**
- **Time Store – Central Repository for Time Data**
- **Time Entry Methods**
 - ❖ Self Service Screens
 - ❖ Line Manager
 - ❖ Timekeeper Form
 - ❖ Disconnected Entry - Excel
- **Preferences – Rules as how individuals or group of people can use the application**

Process Flow



Time

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Status	Period Starting	Period Ending	Recorded Hours	Submission Date	Update	Delete	Details
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Time Entry: BIJUMALLA, VENUMADHAV, 450003N

Period Comments

Hours Type	Cost Center	Mon, Feb 04	Tue, Feb 05	Wed, Feb 06	Thu, Feb 07	Fri, Feb 08	Sat, Feb 09	Sun, Feb 10	Total	Delete
		Start <input type="text"/>	Start <input type="text"/>	Start <input type="text"/>	Start <input type="text"/>	Start <input type="text"/>	Start <input type="text"/>	Start <input type="text"/>		
		Stop <input type="text"/>	Stop <input type="text"/>	Stop <input type="text"/>	Stop <input type="text"/>	Stop <input type="text"/>	Stop <input type="text"/>	Stop <input type="text"/>		
		Hrs <input type="text"/>	Hrs <input type="text"/>	Hrs <input type="text"/>	Hrs <input type="text"/>	Hrs <input type="text"/>	Hrs <input type="text"/>	Hrs <input type="text"/>	0	
<input type="button" value="Add Another Row"/> <input type="button" value="Recalculate"/>		0	0	0	0	0	0	0	0	

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Review: BIJUMALLA, VENUMADHAV, 450003N

Week Starting **Monday, February 04 2008**

Timecard Period (days) 7

Comments

Hours Type	Cost Center	Mon, Feb 04	Tue, Feb 05	Wed, Feb 06	Thu, Feb 07	Fri, Feb 08	Sat, Feb 09	Sun, Feb 10	Total
Other Pay Salaried		Start 08:00 Stop 16:00 Hrs	Start 08:00 Stop 16:00 Hrs	Start 08:00 Stop 16:00 Hrs	Start 08:00 Stop 16:00 Hrs	Start 08:00 Stop 16:00 Hrs	Start Stop Hrs	Start Stop Hrs	40
		8	8	8	8	8	0	0	40

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Confirmation

Time entries for the given timecard period have been submitted successfully.

Confirmation: BIJUMALLA, VENUMADHAV, 450003N

Hours Entered

	Regular	Premium
Total Hours Entered	0	0

Week Starting **Monday, February 04 2008**

Timecard Period (days) 7

Comments

Hours Type	Cost Center	Mon, Feb 04	Tue, Feb 05	Wed, Feb 06	Thu, Feb 07	Fri, Feb 08	Sat, Feb 09	Sun, Feb 10	Total
Other Pay Salaried		Start 08:00 Stop 16:00 Hrs	Start 08:00 Stop 16:00 Hrs	Start 08:00 Stop 16:00 Hrs	Start 08:00 Stop 16:00 Hrs	Start 08:00 Stop 16:00 Hrs	Start Stop Hrs	Start Stop Hrs	40
		8	8	8	8	8	0	0	40

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- Timecard Page
- Timecard Layout
- Timecard Layout Customization
- Timecard Layout Changes
- Configuration Concepts

■ Time Building Blocks

- ❖ Range – Entry of Time exists for a range of time (09:00 – 17:00)
- ❖ Measure – Entry of Time that is a specific amount of time (8 hrs)

■ User Interface Component Hierarchy

- ❖ Message components to show error, warning or confirmation messages
- ❖ Top Level Building Block
 - Header table layout
 - **Header field table layout**
 - ✓ Inter-period navigation control
 - **Comments Component**
 - Timecard Matrix building block
 - **Measure field, Start & Stop time**
 - Template Save table layout
 - **Save template name field**
 - **Save Template submit control**

- **Layout File – Set of User Interface Components and associated qualifier descriptions**
- **Layout Type**
 - ❖ Timecard (Time Entry Page)
 - ❖ Review (Timecard Review Page)
 - ❖ Confirmation (Timecard Confirmation Page)
 - ❖ Details (Timecard Details Page where applicable)
 - ❖ Export (Template used for Timecard Export Functionality)
 - ❖ Notification (Timecard Review page as seen by Timecard Approver)
 - ❖ Fragment (Timecard Review page as seen by Timecard Approver but only those time entries for which the approver can approve the time)
 - ❖ Audit (The Page on which audit entries, also known as reasons, are made)

- Oracle delivers seeded layouts supported in OTL like Payroll, Projects, Projects and Payroll etc

Layout Name	Layout Type	File Name
Payroll Timecard Layout	TIMECARD	hxczzhxclayt0000.ldt
Payroll Review Layout	REVIEW	hxczzhxclayt0005.ldt
Payroll Confirmation	CONFIRMATION	hxczzhxclayt0001.ldt
...

- Use one of the seeded layout closest to the requirements as the starting point for customization
- Copy the seeded layout file
- Change the layout name and description in the custom layout file

- **Change the top section in the layout file**

Change

```
BEGIN HXC_LAYOUTS "PAYROLL-TIMECARD" "HXC"  
  OWNER = "ORACLE"  
  DISPLAY_LAYOUT_NAME = "Payroll Timecard Layout"  
  LAYOUT_TYPE = "TIMECARD"
```

TO

```
BEGIN HXC_LAYOUTS "AST-PAYROLL-TIMECARD" "HXC"  
  OWNER = "AST"  
  DISPLAY_LAYOUT_NAME = "AST Payroll Timecard Layout"  
  LAYOUT_TYPE = "TIMECARD"
```

- **Upload Timecard Layout's**

- ❖ Use FNDLOAD from the command line

Example: `FNDLOAD apps/apps@ebsdb 0 Y UPLOAD
$HXC_TOP/patch/115/import/hxclaylayoutsld.lct ./ast_payroll.ldt`

- **View Objects**
 - ❖ A View Object is a standard BC4J object and the primary method to query data into Self-Service applications
- **Application Modules**
 - ❖ An Application Module is a BC4J object which can be considered as a container for View Objects
- **Apache/Jserv Server**
 - ❖ Changes to BC4J objects requires Apache Server bounce
- **Delivered Configurable Objects**
 - ❖ OTL delivers a number of configurable

View Object Name	View Object Class	Configurable View Name
Custom1VO	oracle.apps.hxc.selfservice.timecard.server.Custom1VO	HXC_CUI_CUSTOM1_V
.....		
Custom10VO	oracle.apps.hxc.selfservice.timecard.server.Custom10VO	HXC_CUI_CUSTOM10_V

Qualifier Attribute	Description – Text Field	Description – Choice List	Description - LOV
QUALIFIER_ATTRIBUTE1	Flag to determine whether or not the component has to render its own prompt	Valid View Object Name	Valid View Object Name
QUALIFIER_ATTRIBUTE2	Flag to determine whether or not the parent component has to render the prompt for the component	Enable the Cache for the View Object	Enable the Cache for the View Object
QUALIFIER_ATTRIBUTE3	Display Width	Execute the query even if there is no ID value stored	Valid AK LOV Region
QUALIFIER_ATTRIBUTE4	Height/Number of Lines to use for the Text Field	Render Associated Prompt along with the component	Application ID for AK LOV Region
QUALIFIER_ATTRIBUTE5	Maximum Length	Oracle Development Use Only	Display Width
QUALIFIER_ATTRIBUTE6	CSS Style Class		LOV Criteria
QUALIFIER_ATTRIBUTE7	CSS Style Class to use when the field is rendered in read-only mode		Result Column Mappings
QUALIFIER_ATTRIBUTE8		Display Attribute Name	Display Attribute Name
QUALIFIER_ATTRIBUTE9		ID Attribute Name	ID Attribute Name
QUALIFIER_ATTRIBUTE10		Full class reference of the view object	Full Class Reference of the View Object

Qualifier Attribute	Description
QUALIFIER_ATTRIBUTE20	Display on New Line – Force the component to display on a new table cell
QUALIFIER_ATTRIBUTE21	Show outside the building block – Determine whether or not the component should be shown outside the timecard matrix
QUALIFIER_ATTRIBUTE22	Outside Direction – Determines which side of the timecard matrix the component will be shown
QUALIFIER_ATTRIBUTE25	Access Method – Determines the access method for the data source
QUALIFIER_ATTRIBUTE26	Context – Flex Context for the data source
QUALIFIER_ATTRIBUTE27	Flex attribute for the data source (DFF Segment)
QUALIFIER_ATTRIBUTE30	Read-Only flag

- Add Text Field Component to the layout file
- Modify the Qualifiers in the Layout file

Component Definition	Region Code	Attribute Code
TEXT_FIELD	HXC_CUI_TIMECARD	HXC_TIMECARD_ACTIVITY

Qualifier Attribute	Value
QUALIFIER_ATTRIBUTE1	N
QUALIFIER_ATTRIBUTE2	N
QUALIFIER_ATTRIBUTE3	6
QUALIFIER_ATTRIBUTE4	1
QUALIFIER_ATTRIBUTE20	N
QUALIFIER_ATTRIBUTE21	Y
QUALIFIER_ATTRIBUTE22	L
QUALIFIER_ATTRIBUTE25	FLEX
QUALIFIER_ATTRIBUTE26	ACTIVITY
QUALIFIER_ATTRIBUTE27	Attribute1
QUALIFIER_ATTRIBUTE30	N

- Use either Oracle delivered view objects or create custom view objects
- Modify the qualifier in the layout file

Component Definition	Region Code	Attribute Code
CHOICE_LIST	HXC_CUI_TIMECARD	HXC_TIMECARD_JOB

Qualifier Attribute	Value
QUALIFIER_ATTRIBUTE1	JobsVO
QUALIFIER_ATTRIBUTE3	Y
QUALIFIER_ATTRIBUTE4	N
QUALIFIER_ATTRIBUTE8	JobName
QUALIFIER_ATTRIBUTE9	JobId
QUALIFIER_ATTRIBUTE10	ast.oracle.apps.hxc.otl.custlov.server.JobsVO
QUALIFIER_ATTRIBUTE17	x55
QUALIFIER_ATTRIBUTE20	N
QUALIFIER_ATTRIBUTE21	Y
QUALIFIER_ATTRIBUTE22	L
QUALIFIER_ATTRIBUTE25	FLEX
QUALIFIER_ATTRIBUTE26	ACTIVITY
QUALIFIER_ATTRIBUTE27	Attribute2

- **Create custom view objects**
- **Create LOV Attributes using AK Developer**
- **Create LOV Region**
- **Migrate LOV region from AK to MDS repository**
- **Add the LOV component and its qualifiers to the Custom layout file**
- **Copy/FTP the Custom View Objects/Application Modules to the Web Server**
- **Upload the custom layout file**
- **Bounce Apache Server**

- Using JDeveloper create view objects
- Add view objects to Application Module

The screenshot displays the Oracle9i JDeveloper IDE. On the left, the System Navigator shows a project structure for 'AstOTLProj.jpr' containing an application module 'AstAM' and several view objects: 'JobsVO', 'RotationPlanVO', and 'TasksVO'. On the right, the 'Application Module Editor: AstAM' dialog is open. The dialog has a 'Data Model' tree on the left and two main panes. The 'Available View Objects' pane shows the project's view objects, and the 'Data Model' pane shows the 'AstAM' module with its existing view objects. Below the panes are fields for 'Name:' and 'Instance Name:', and buttons for 'Help', 'Apply', 'OK', and 'Cancel'.

- Switch to AK Developer Responsibility
- Navigate to Define Attributes

Attribute ID	Attribute Name	Application	Data Type	Value Length	Label
CUS_TASK_ID	Custom Task ID	Time and Labor Engine	Number	15	Task ID
CUS_TASK_NAME	Custom Task Name	Time and Labor Engine	Varchar2	50	Task Name
CUS_TASK_NUMBER	Custom Task Number	Time and Labor Engine	Varchar2	15	Task Number

Attributes

Attribute ID	Attribute Name	Application	Data Type	Value Length
CUS_TASK_ID	Custom Task ID	Time and Labor Engine	Number	15
CUS_TASK_NAME	Custom Task Name	Time and Labor Engine	Varchar2	50
CUS_TASK_NUMBER	Custom Task Number	Time and Labor Engine	Varchar2	15

Attributes

Style	Label
Text	Task ID
Text	Task Name
Text	Task Number

- Switch to AK Developer responsibility
- Navigate to Define Regions

Region ID	Region Name	Application Name	Object Name	Region Style	Application Module Definition	Controller Object Type
CUS_TASKS_LOV	Custom Tasks LOV	Time and Labor Engine	ICX_PROMPTS	List Of Values	ast.oracle.app s.hxc.otl.custl ov.server.Ast AM	oracle.apps.hxc .selfservice.con figui.webui.Lov CO

ast.oracle.apps.hxc.otl.custlov.server.AstAM

oracle.apps.hxc.selfservice.configui.webui.LovCO

Regions

Region ID	Region Name	Application Name
CUS_TASKS_LOV	Custom Tasks LOV	Time and Labor Engine

Regions

Region ID	Object Name	Region Style	Num of Columns
CUS_TASKS_LOV	ICX_PROMPTS	List Of Values	

Regions

Region ID	Application Module Definition Na	Display Rows	Controller Object Type	Imag
CUS_TASKS_LOV	ast.oracle.apps.hxc.otl.custlov	20	oracle.apps.hxc.selfse	

- Click on Region Items button

Attribute Name	Queryable	Item Name	View Usage Name	View Attribute Name
Custom Task ID	N	CusTaskId	TasksVO	Taskid
Custom Task Number	Y	CusTaskNumber	TasksVO	Tasknumber
Custom Task Name	Y	CusTaskName	TasksVO	Taskname

Region Items

Application:

Object Name:

Region Name:

Attribute Type	Application	Attribute Name	Sequence	Item Style	Node Display	Update	Required	Queryable
Attribute	Time and Labor Engine	Custom Task ID	10	Text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Attribute	Time and Labor Engine	Custom Task Number	20	Text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Attribute	Time and Labor Engine	Custom Task Name	30	Text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Custom Call:

Item Name	View Usage Name	View Attribute Name
CusTaskId	TasksVO	Taskid
CusTaskNumber	TasksVO	Tasknumber
CusTaskName	TasksVO	Taskname

- **Execute the following code snippet and commit the changes**

```
BEGIN
  hxc_lov_migration.migrate_lov_region(
    p_region_code => 'CUS_TASKS_LOV',
    p_region_app_short_name => 'HXC',
    p_force => 'Y'
  );

END;
/
```

Component Definition	Region Code	Attribute Code
LOV	HXC_CUI_TIMECARD	HXC_TIMECARD_TASK

Qualifier Attribute	Value
QUALIFIER_ATTRIBUTE1	TasksVO
QUALIFIER_ATTRIBUTE2	N
QUALIFIER_ATTRIBUTE3	/oracle/apps/hxc/selfservice/configui/webui/CUS_TASKS_LOV
QUALIFIER_ATTRIBUTE4	809
QUALIFIER_ATTRIBUTE5	12
QUALIFIER_ATTRIBUTE6	CusTaskNumber CUSTASK-DISPLAY CRITERIA N CusTaskNumber CUSTASK-DISPLAY RESULT N CusTaskId CUSTASK CusTaskNumber
QUALIFIER_ATTRIBUTE7	CUSTASK CusTaskNumber
QUALIFIER_ATTRIBUTE8	Tasknumber
QUALIFIER_ATTRIBUTE9	Taskid#NUMBER
QUALIFIER_ATTRIBUTE10	ast.oracle.apps.hxc.otl.custlov.server.TasksVO
QUALIFIER_ATTRIBUTE17	OraTableCellText
QUALIFIER_ATTRIBUTE20	N
QUALIFIER_ATTRIBUTE21	Y
QUALIFIER_ATTRIBUTE22	L
QUALIFIER_ATTRIBUTE25	FLEX
QUALIFIER_ATTRIBUTE26	ACTIVITY
QUALIFIER_ATTRIBUTE27	Attribute3
QUALIFIER_ATTRIBUTE28	CUSTASK

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Time Entry: BIJUMALLA, VENUMADHAV, 450003N

Cancel Save Continue

Period: Rotation Plan Drivers

Comments

Hours Type	Job	Task	Activity	Mon, Feb 18	Tue, Feb 19	Wed, Feb 20	Thu, Feb 21	Fri, Feb 22
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="Add Another Row"/> <input type="button" value="Recalculate"/>				0	0	0	0	

Time

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Review: BIJUMALLA, VENUMADHAV, 450003N

Week Starting **Monday, February 11 2008**

Timecard Period (days) 7

Comments

Hours Type	Job	Task	Activity	Mon, Feb 11	Tue, Feb 12	Wed, Feb 13	Thu, Feb 14	Fri, Feb 15	Sat, Feb 16	Sun, Feb 17	Total
Other Pay Salaried	HUMAN RESOURCES ADMINISTRATOR	11.02	Activity1	8	8	8	8	8			40
				8	8	8	8	8	0	0	40

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Confirmation

Time entries for the given timecard period have been submitted successfully.

Confirmation: **BIJUMALLA, VENUMADHAV, 450003N**

Hours Entered

	Regular	Premium
Total Hours Entered	0	0

Week Starting **Monday, February 11 2008**

Timecard Period (days) 7

Comments

Hours Type	Job	Task	Activity	Mon, Feb 11	Tue, Feb 12	Wed, Feb 13	Thu, Feb 14	Fri, Feb 15	Sat, Feb 16	Sun, Feb 17	Total
Other Pay Salaried	HUMAN RESOURCES ADMINISTRATOR	11.02	Activity1	8	8	8	8	8			40
				8	8	8	8	8	0	0	40

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- **Time Entry Rules**
 - ❖ Validate a Timecard when it is saved or submitted and display a business message, error or warning.
- **Time Entry Rule Groups**
 - ❖ Group the Time Entry Rules and assign to a person or group of people via preferences.
- **Time Categories**
 - ❖ Reporting purposes and identify the time to be analyzed by time entry rule formulas.
- **Recurring Time Periods**
 - ❖ Frequency of timecard entry and approval

Error

The following time entry rule has been violated (Please enter value for Task field)

[Show Accrual Balances](#)

Period ⓘ
 Comments
 Template Overwrite Entry

Hours Type	Task	WOC Job	Sun, Jan 13	Mon, Jan 14	Tue, Jan 15	Wed, Jan 16	Thu, Jan 17	Fri, Jan 18	Sat, Jan 19	Sun, Jan 20	Mon, Jan 21
Regular Earnings	1001A			8	8	8	4	7			
LV Holiday											8
LV Sick	19900						4	1			
<input type="button" value="Add Another Row"/> <input type="button" value="Recalculate"/>			0	8	8	8	8	8	0	0	8

Error

The following time entry rule has been violated (Please enter value for WOC Job Field)

[Show Accrual Balances](#)

Period ⓘ
 Comments
 Template Overwrite Entry

Hours Type	Task	WOC Job	Sun, Jan 13	Mon, Jan 14	Tue, Jan 15	Wed, Jan 16	Thu, Jan 17	Fri, Jan 18	Sat, Jan 19	Sun, Jan 20	Mon, Jan 21
Regular Earnings	1001A			8	8	8	4	7			
LV Holiday	19900										8
LV Sick	19900						4	1			
Working Out of Class	1001A			2							
<input type="button" value="Add Another Row"/> <input type="button" value="Recalculate"/>			0	8	8	8	8	8	0	0	8

Template Name

- Page rendered with Oracle Time and Labor timecard configuration utility, no UI components can be Personalized using the standard Oracle Applications Framework (OAF) functionality
- OAF Personalization functionality can be used to personalize LOV windows

Questions and Open Discussions



Contact Information

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