

MatrixOne

UI 3

Chennai

# Agenda

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UI 3 Introduction

UI 3 Advantages

UI 3 Components

UI 3 Menus and Commands

UI 3 Web Forms

UI 3 Tables and Inquiry

UI 3 Navigation

UI 3 Channels and Portals

# UI3 Introduction

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- MatrixOne comes with three levels of User Interface
  - Thick Client and UI1 - Wizard Based and Page Centric
  - UI2 - Property files
  - UI3 - Dynamic UI
- The dynamic user interface defines:
  - Configure existing applications that are built using the dynamic user interface.
  - Add menus and features to existing applications.
  - Create a custom application that contains the interface.

# UI3 Introduction

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## ■ Naming Conventions for Centrals

■ Application Exchange Framework	AEF
■ Engineering Central	ENC
■ Program Central	PMC
■ Sourcing Central	SCS
■ Specification Central	SPC
■ Supplier Central	SUP
■ Team Central	TMC
■ Product Central	PDC
■ Document Central	DMC

Please do not alter any UIs created in above prefix.

# UI3 Introduction

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- Naming Conventions for UI3 Directory Macros
  - `${COMMON_DIR}` - Substitutes Common directory from ematrix directory
  - `${ROOT_DIR}` - Substitute the “ematrix” directory.
  - `${SUITE_DIR}` - Substitute the application-specific directory from the ematrix directory
- Used in some of the UIs to specify the links especially Commands

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# UI3 Advantages

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- Standard look and feel in all pages
- Easy customization
- Faster development
- Easy to Configure

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# UI3 Components

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- Menu
- Command
- Table
- Tree
- Inquiry
- Program
- Web Form
- Channel and Portal

# Agenda

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UI 3 Introduction

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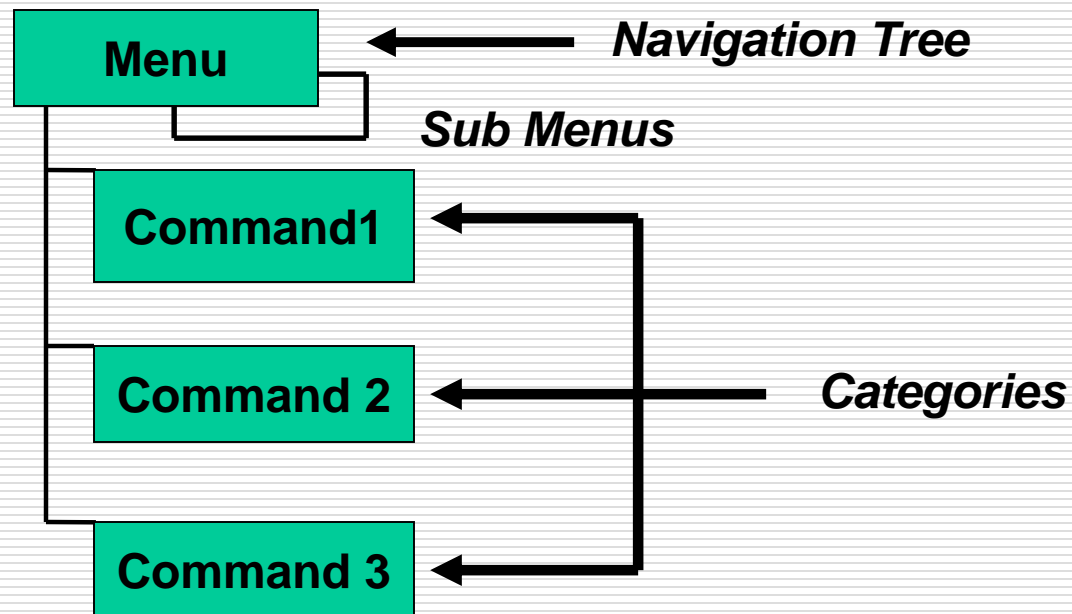
UI 3 Menus and Commands

UI 3 Web Forms

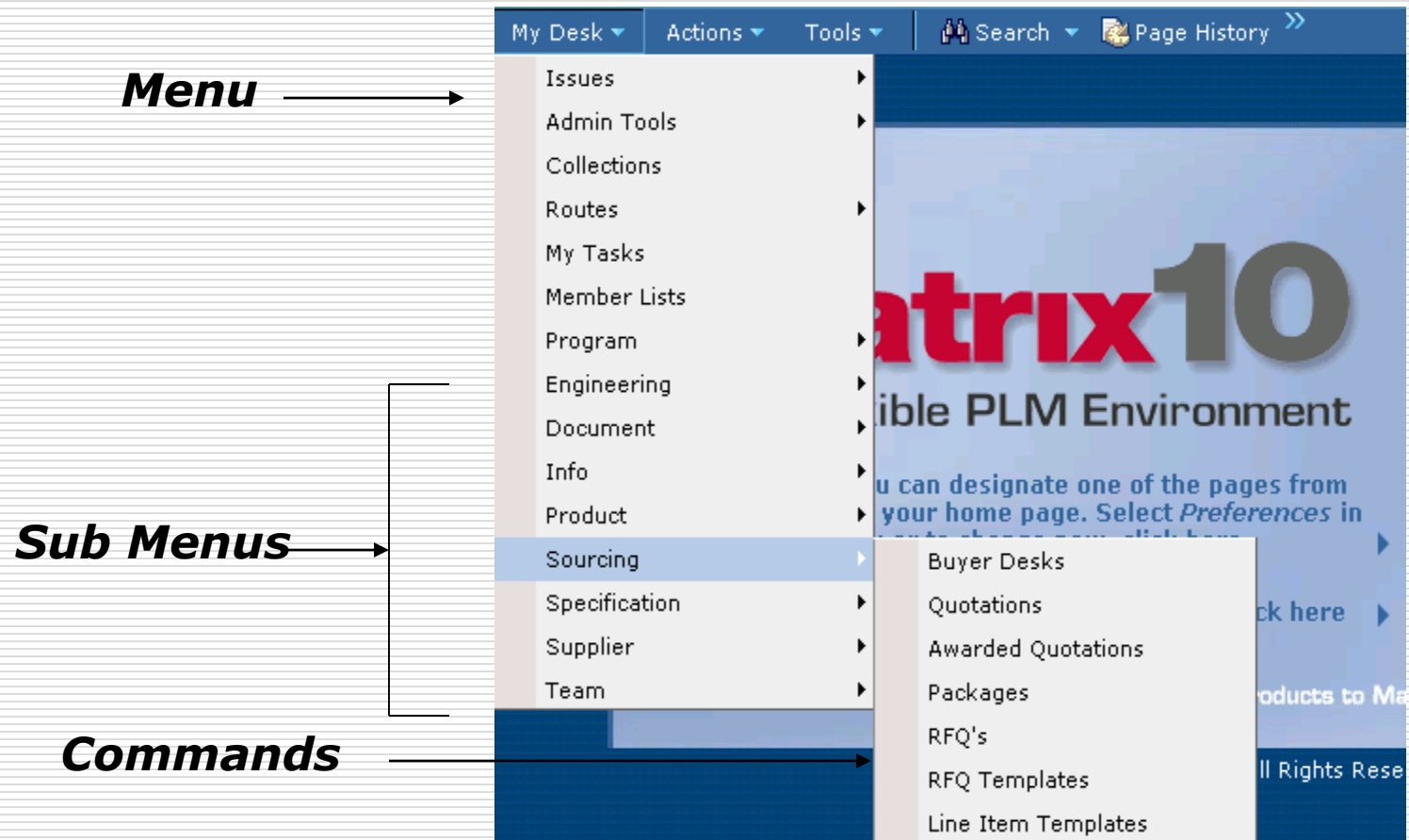
UI 3 Tables and Inquiry

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# UI3 Menus and Commands



# Menus

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- A Menu provides access to features that are common to all applications and also contains a submenu for each application that you have access to.
  - Each submenu contains links for items that are important to you, based on the roles you are assigned.
  - Types of Menus
    - Global Toolbar Menu
    - My Desk Menu
    - Actions Menu
    - Tools Menu
- ### Other Menus

  - Default Tree
  - Tree
  - IconMail

# Menus

Top banner

Global toolbar

My Desk menu

Actions menu

Tools menu

Page toolbar

Category List (Context Navigator)

Table page

Pagination controls

**CM-202030-01 rev 1: Engineering Bill of Materials**

	F/N	Ref Des	Component Location	Name	Rev	Type	Description	State	Qty	U
<input type="checkbox"/>	098	123		CM-200000-01	1	Part	Copy Machine	Approved	1.0	EA (e.)
<input type="checkbox"/>	907	234		CM-200001-01	1	Part	special test Part	Approved	1.0	EA (e.)
<input type="checkbox"/>	876	345		CM-200002-01	1	Part	special test Part	Approved	1.0	EA (e.)
				CM-			special test			EA

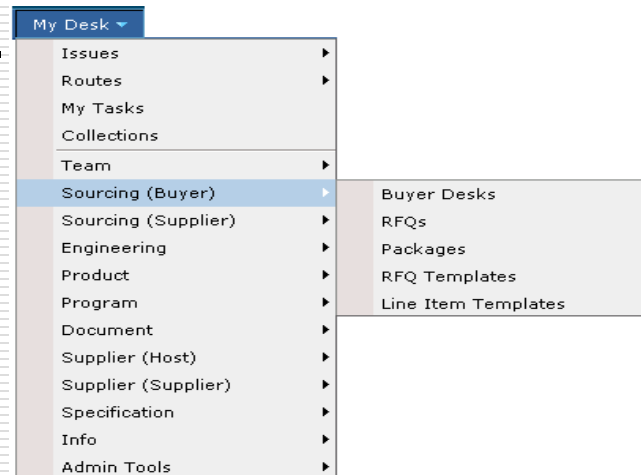
Page 1 of 1

- The Global toolbar holds top-level menu items:
  - My Desk, Actions, and Tools menus, which have drop downs;
  - Search, Page History, Home and Logout buttons.
  - It is an access-level toolbar.



# Menus - MyDesk Menu

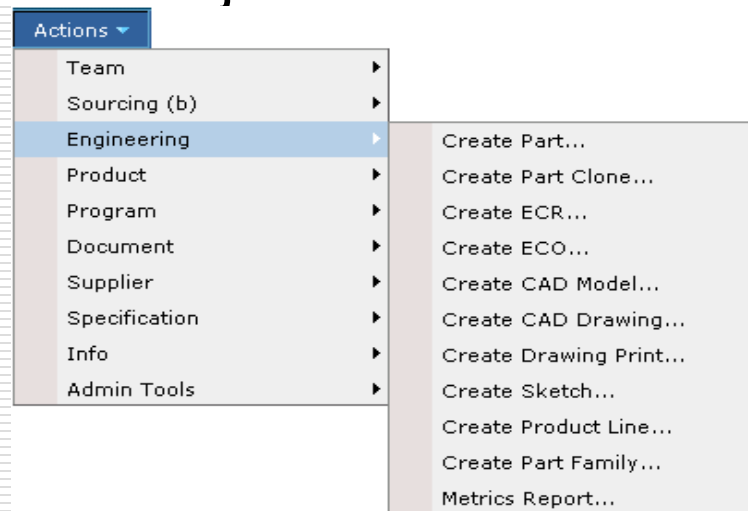
- My Desk Menu helps you to select an application-specification or common page.
- You can access common functions such as routes, issues, tasks and documents.
- Or you can access pages specific to certain applications, such as workspaces, products, specifications, etc.





# Menus - Actions Menu

- Actions Menu Select an application-specification action to perform. These include creating new objects and running reports.
- For example, the Engineering submenu on the Actions menu contains a list of Create actions for Engineering Central objects and a link to run a metrics report.



# Menus - Tools Menu

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- The Tools menu contains items that apply to MatrixOne applications in general. It contains:
  - Home
  - Power View
  - Search
  - Page History
  - About
  - Administration
  - Reload Cache - ( For Administration Managers only)
  - Icon Mail
  - Preferences
  - Logout

# Menus

## Creating Menus from Business Modeler

- On creating Menu from Business Modeler there are four parameters to be filled in:

- Basics

- Name

- Description

- Label

( Text to display  
in Web Navigator)

**Edit Menu - My Desk**

Basics | Link | Settings | Items

Name: My Desk

Description:

Label: emxNavigator.UIMenuBar.MyDesk

☐ Hidden

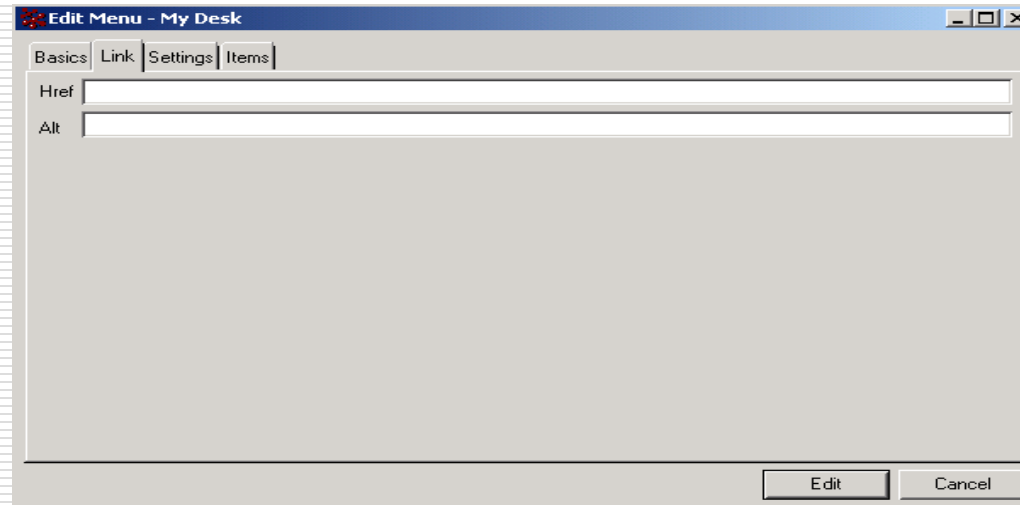
Icon: [Menu Icon] ...

Edit Cancel

# Menus

## Creating Menus from Business Modeler

### ■ Link

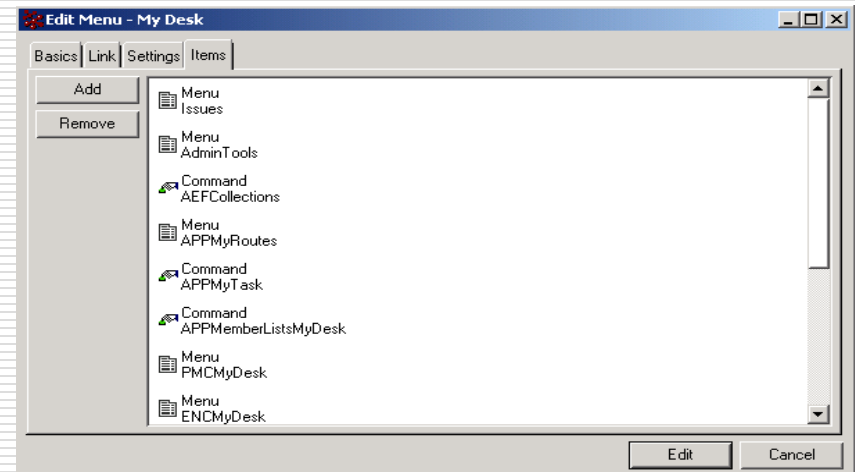
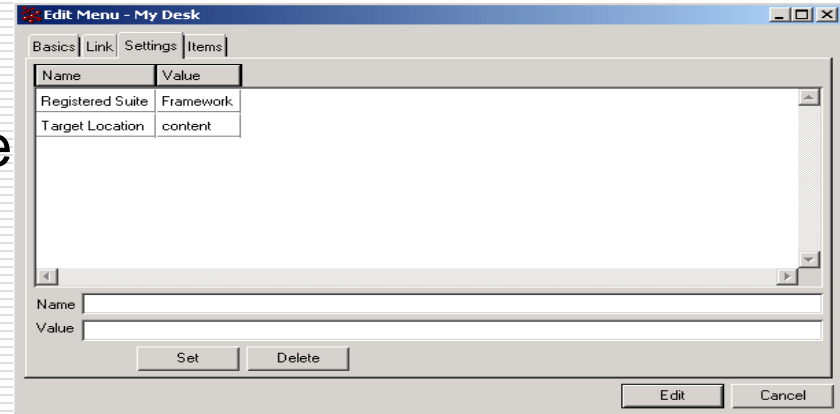


- Href : Type a string for the Href field to be used to provide link data to the JSP.
- The Href link is evaluated to bring up another page. Many menus will not have an Href value at all.
- Alt : Type any alternate text into the Alt field.

# Menus

## Creating Menus from Business Modeler

- **Settings**
  - Enter Name and Value  
And Set the same.  
( Send to AEF )
- **Items**
  - Select the Items tab to  
add commands and other  
menus to the menu



- Commands are child objects of menus - commands are created first and then added to menu definitions, similar to the association between Matrix types and attributes.
- Commands are also referenced in Channel objects, which are in turn used in portal definitions.
- Commands are user - based that is, only shown to particular persons, roles, groups, or associations.

# Commands

## Creating Commands from Business Modeler

- On creating Commands from Business Modeler there are five parameters to be filled in:

- Basics

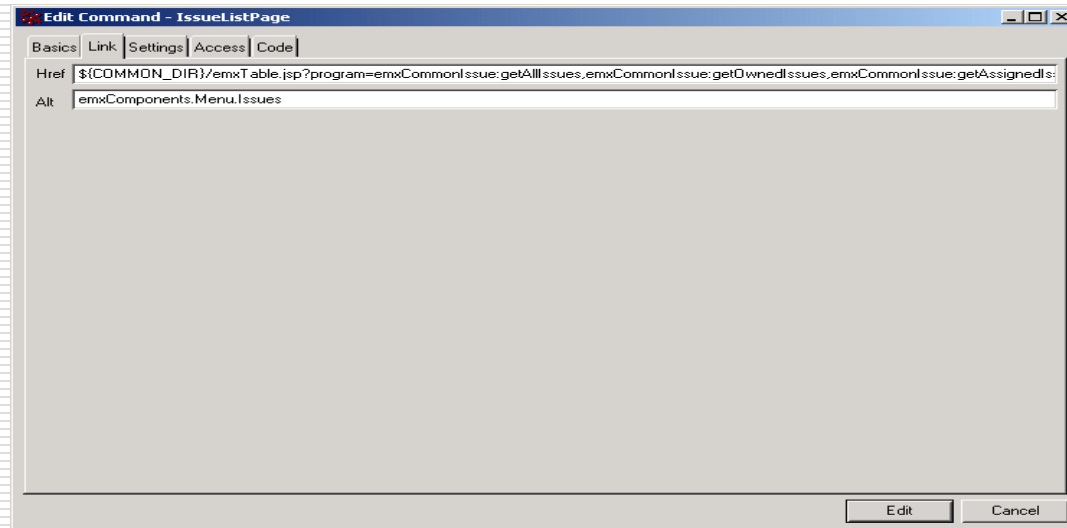
- Name
- Description
- Label

(Text to display in  
Web Navigator)

The screenshot shows a dialog box titled "Edit Command - IssueListPage". It has five tabs: Basics, Link, Settings, Access, and Code. The Basics tab is selected. Inside the Basics tab, there are three text input fields: "Name" with the value "IssueListPage", "Description" with the value "Command Object for Issue in the tool bar Menu", and "Label" with the value "emxComponents.Command.Issues". Below these fields is a checkbox labeled "Hidden" which is currently unchecked. To the right of the input fields is an "Icon" button with a small icon and a dropdown arrow. At the bottom right of the dialog are "Edit" and "Cancel" buttons.

## Creating Commands from Business Modeler

### ■ Link



- Href : Type a string for the Href field to be used to provide link data to the JSP.
- The Href link is evaluated to bring up another page. Many commands will not have an Href value at all.
- Alt : Type any alternate text into the Alt field.



# Commands

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## Creating Commands from Business Modeler

- Settings
  - Name-Value pairs used to send instructions to the AEF.
- Access
  - Access tab is to define the users allowed to see the command.
- Code
  - Code tab to add JavaScript code to the command.

# Agenda

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# UI3 Web Forms

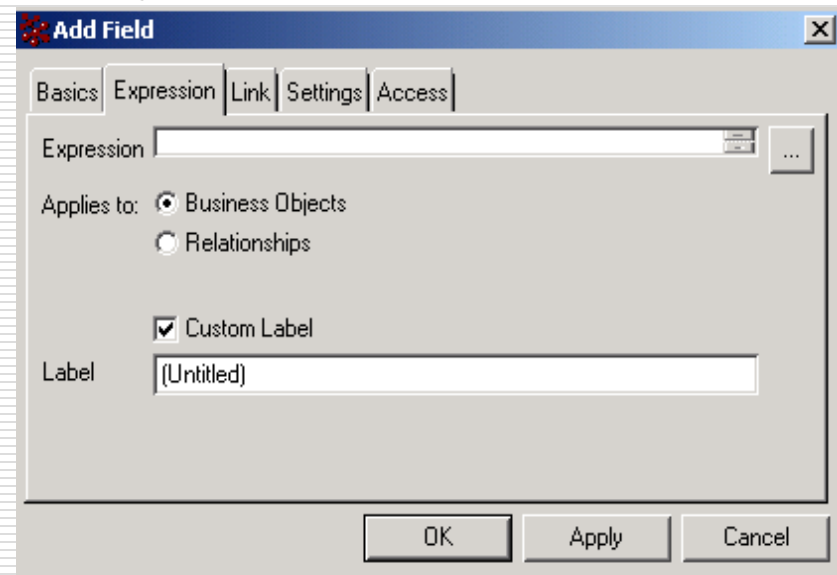
- A Web form displays characteristics of a business object, including attributes, basics, or other properties.
- Each characteristic is listed in a row on the form page; each row on a page is a field
- The form page comes in two modes: View and Edit.

The screenshot shows a 'New Web Form' dialog box with the following fields and controls:

- Name:** A text input field.
- Description:** A text input field.
- Type:** A dropdown menu with a '...' button to the right.
- Hidden:** A checkbox.
- Field List:** A table with three columns: 'Field', 'Label', and 'Expression'. It contains one empty row.
- Buttons:** 'Add', 'Edit', and 'Delete' buttons are on the left, and 'Create' and 'Cancel' buttons are at the bottom right.

# UI3 Web Forms

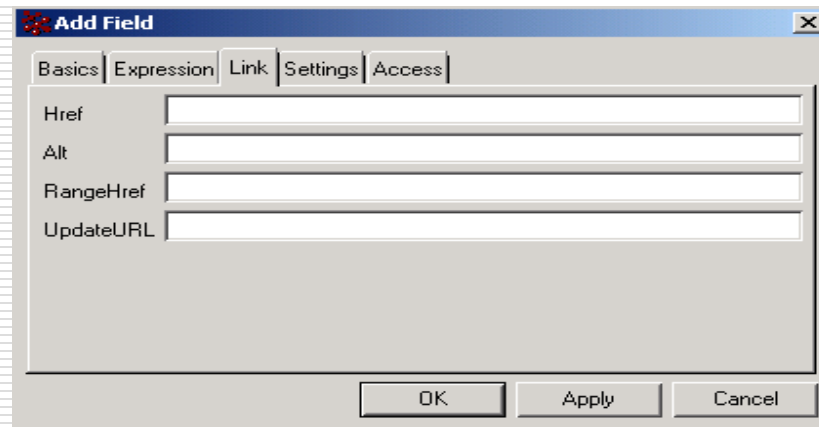
- Field and Expression
  - Field dialog box lets you define the data that should appear in the field.
  - You can then add the expression for the field either applying for a business object or for a relationship.
- Settings and Access
  - Similar to Menus and Commands



# UI3 Web Forms

## ■ Link



- Href and Alt fields are same as that of commands and Menus
- RangeHref - Specifies the JSP that gets a range of values and populates the field with the selected value.
- UpdateURL - Specifies the URL page that should be displayed after the field is updated.




The screenshot shows a dialog box titled "Add Field" with a close button (X) in the top right corner. The dialog has five tabs: "Basics", "Expression", "Link", "Settings", and "Access". The "Link" tab is currently selected. Inside the "Link" tab, there are four text input fields labeled "Href", "Alt", "RangeHref", and "UpdateURL". Below these fields is a large empty rectangular area. At the bottom of the dialog, there are three buttons: "OK", "Apply", and "Cancel".

# Form page in View mode

## testing task : Summary View

Actions ▾  

<b>Owner</b>	Test Everything
<b>Originated</b>	May 3, 2005 9:54:19 AM
<b>Due Date</b>	
<b>Allow Delegation</b>	No
<b>Assignee</b>	Test Everything
<b>Routes</b>	 <a href="#">0000000005</a>
<b>Action</b>	Approve
<b>Approval Status</b>	
<b>State</b>	Assigned
<b>Instructions</b>	approve m an

Form page in View mode  
Header

Page toolbar with Actions menu

Form  
rows or  
fields

# Form page in Edit mode

Header →

Form  
rows or  
fields

MatrixOne - Microsoft Internet Explorer

**Edit Part Family Details**

Type: Part Family

**Owner**: Test Everything

Date Originated: Apr 1, 2005 2:20:07 PM

Date Modified: Apr 28, 2005 9:59:17 AM

Description: Software Parts Family

Part Family Name Generator On: ☒

Part Family Sequence Pattern: 0000

Originator: Test Everything

Part Family Prefix Pattern: SW

Done Cancel

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- UI 3 Web Forms
- UI 3 Tables and Inquiry**
- UI 3 Navigation
- UI 3 Channels and Portals



- Business administrators can create inquiries and tables.
- Inquiries are designed to obtain a list of business objects, which can then be loaded into a pre-defined table in an application's page. A table can be fed with more than one inquiry.
- Tables can be defined for system-wide access, instead of being associated with a person's (or role's) workspace, and each column has additional parameters such as link data (href and alt) that provide flexibility and creativity for JSP programmers.

# Inquiry

## Creating Inquiry from Business Modeler

### ■ Basics

#### ■ Name

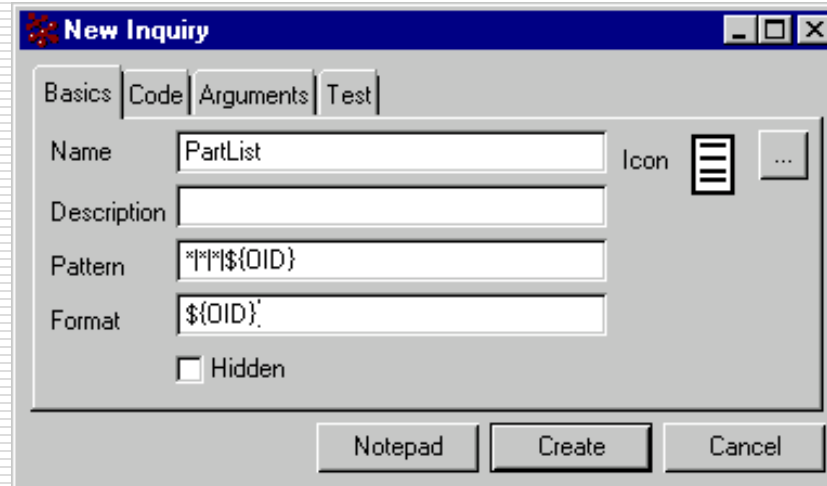
#### ■ Description

#### ■ Pattern

#### ■ Format

- The Pattern indicates the expected pattern of the results of the evaluated code. e.g. `*|*|*|${OID}`

- The Format defines what part of the output results should be saved in the inquiry's list. e.g. `${OID}`



# Inquiry

## Creating Inquiry from Business Modeler

### ■ Code

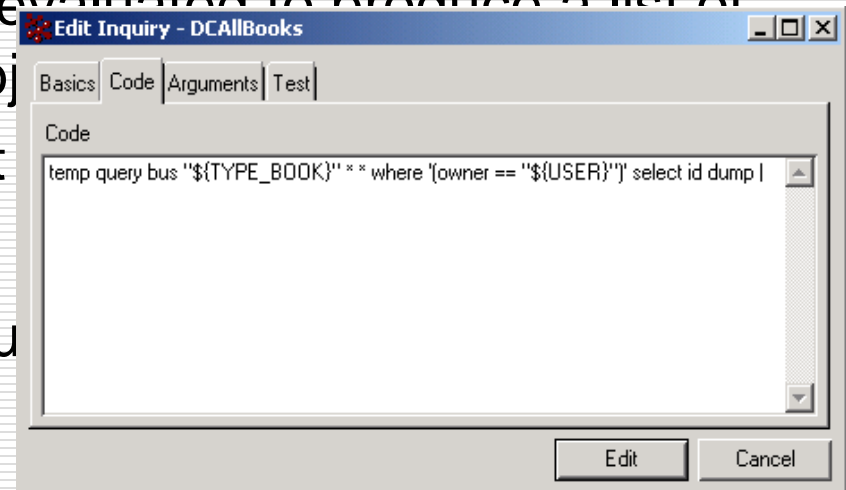
- Provides the code to be evaluated to produce a list of one or more business objects  
e.g. temp query bus Part

### ■ Arguments

- To provide any input arguments that are needed.

### ■ Test

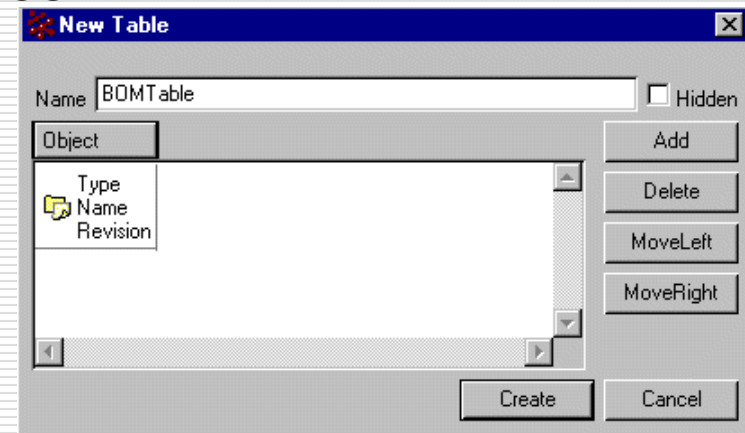
- Test tab to determine if the inquiry will parse the output as you have designed the JSP to expect to receive it.



# Tables

## Creating Table from Business Modeler

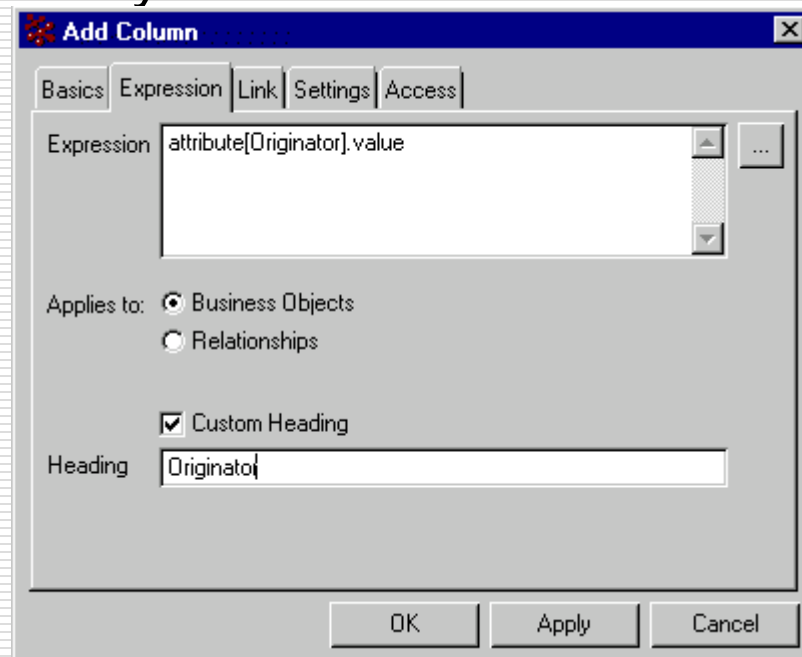
- Tables can be constructed using three components
  - Inquiry Administrative Object or Program object
  - Table Page (emxTable.jsp)
  - Table Administrative Object
- You cannot use complex queries in Inquiries code (with Where clause), so a program helps you to manage tables with complex queries.
- Each column has several
  - To Link data
  - Set User access and Other settings



# Tables

## Creating Table from Business Modeler

- Basics - Name and Description
- Expressions - The Expression tab of the Add Column window allows you to define the content of the column.



# Tables

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## Creating Tables from Business Modeler

- Settings
  - Name-Value pairs used to send instructions to the AEF.
- Access
  - Access tab is to define the users allowed to see the Table.
- Link
  - Href and Alt fields are same as that of commands and Menus.

# Tables

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## Viewing Table in Web Navigator

- Create a command object and in the Link give the following

### **Directory Macro / jsp page ?Parameters**

- Parameters are

Table Name

Top Action Bar Name

Bottom Action Bar Name

Pagination Information

Inquiry Name

Program Name: Method Name

Object id gets automatically appended to the URL while loading the page.

e.g. `${COMMON_DIR}/emxTable.jsp?table=Table1&inquiry=inquiry1`  
`${COMMON_DIR}/emxTable.jsp?table=AEFCollection&`  
`program=emxAEFCollection:getCollections`

# Tables

## Viewing Table in Web Navigator

The screenshot shows a web browser window titled "Matrix10 Applications - Microsoft Internet Explorer". The address bar displays "http://10.31.178.170:7001/ematrix/common/emxNavigator.jsp". The page features a navigation menu on the left with links like "Company Name", "Business Units", "Departments", "History", "Location", "People", "Regions", "Formats", "Lifecycle", "Capabilities", "Subsidiaries", "Collaboration Partners", and "Currency Exchange Rates". The "People" link is selected. The main content area is titled "Company Name : People" and contains a table with the following data:

	Name	Employee	E-mail	State	Organizational
<input type="checkbox"/>	<a href="#">Ludy</a>	Yes	<a href="mailto:te@qgf.sdg">te@qgf.sdg</a>	Active	Employee
<input type="checkbox"/>	<a href="#">Ramesh</a>	Yes	<a href="mailto:ramesh.selvaraju@Intinfotech.com">ramesh.selvaraju@Intinfotech.com</a>	Active	Employee
<input type="checkbox"/>	<a href="#">roy</a>	Yes	<a href="mailto:asokroy@abc.com">asokroy@abc.com</a>	Active	Employee

Below the table, there is a list of roles: ProductManager, SystemTransition, SystemConversion, AdministrationMa, Supplier, Design, ECRCoordinator, ECREvaluator, and SeniorDesignEng. The page footer shows "Page 1 of 1" and "Local intranet".



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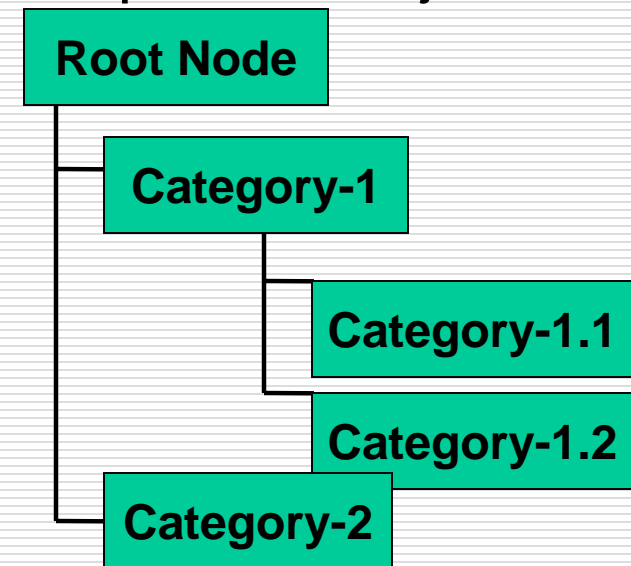
UI 3 Tables and Inquiry

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# UI3 Tree Navigation

- A tree represents hierarchical view of the information of an object.
- Root node represents Business Object
- Child nodes/ Categories are links, represent object information
- Two Modes of display
  - Insert - Multi object information
  - Replace - One Object at a time



# UI3 Tree Navigation

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## ■ Tree Menu

- The Menu objects that represent the tree are named the same as registered symbolic business type names and can search the type hierarchy.  
Eg: type\_Part → Tree Menu
- Business types not represented by Menu objects use the Default Tree Menu
- The Command objects that represent the categories are added as items to the Menu object
- The tree is displayed using emxTree.jsp with additional request parameters

# UI3 Tree Navigation

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## Creating Trees from Business Modeler

- First create a type say Sample and register it.
- After registering the type, create a menu with the symbolic name of that type i.e type\_Sample.
- Add all the necessary commands into that Menu.
- Add the Menu type\_Sample to the Tree Menu
- Create a Table that uses a inquiry or program to get all the business objects ids of that related type.
- In any of the column give the URL Pattern as follows
  - ../common/emxTree.jsp?mode=insert

# UI3 Tree Navigation

Root Node defines the Property page

Keep track of  
Visited Links

Auto-Expand  
Sub-trees

**T1 : Basic Information**

Actions ▾ [Print] [Help]

<b>Project Space Name</b>	LAS-Demo		
<b>Task Name</b>	T1		
<b>Owner</b>	Lead, Project		
<b>Brief Description</b>	Testing		
<b>State</b>	Complete		
<b>Creation Date</b>	Jun 2, 2005		
<b>Estimated Start Date</b>	Jun 13, 2005	<b>Actual Start Date</b>	Jun 2, 2005
<b>Estimated Finish Date</b>	Jun 17, 2005	<b>Actual Finish Date</b>	Jun 2, 2005
<b>Estimated Duration</b>	5.0	<b>Actual Duration</b>	1.0
<b>Status</b>	Unknown		

# UI3 Tree Navigation

The screenshot shows the Matrix10 Applications web interface. The browser window title is "Matrix10 Applications - Microsoft Internet Explorer". The address bar shows the URL "http://infch01110:7001/ematrix//common/emx/Navigator.jsp". The interface has a blue header bar with the Matrix10 logo and the text "User Name: Everything, Test". Below the header is a navigation bar with links: "My Desk", "Actions", "Tools", "Search", and "Page History".

On the left side, there is a "Tree" navigation pane. It contains a "Company Name" section with a sub-section "Business Units" containing "Mot ODC". Below this is a "People" section with a sub-section "hari" containing "Role", "Departments", "History", and "Group". Further down are "Regions", "Formats", "Lifecycle", "Capabilities", and "Subsidiaries".

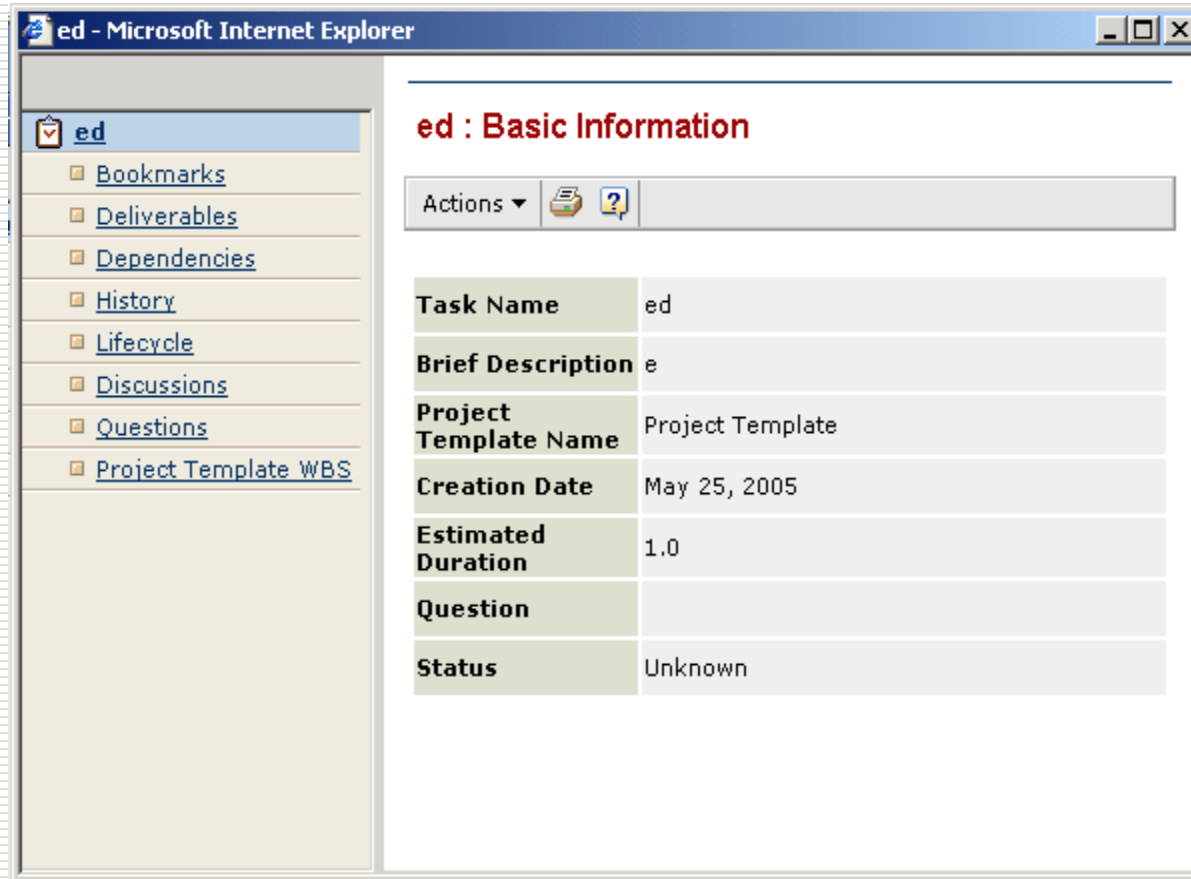
The main content area is titled "hari : Properties". It contains a table with the following data:

User Name	hari
State	Active
First Name	hari
Middle Name	
Last Name	haran
Company	<a href="#">Company Name</a>
Business Unit	<a href="#">Mot ODC</a>
Location	
Company Representative	Not a Company Representative
Office Phone	
Home Phone	

The bottom of the browser window shows a status bar with "Local intranet".

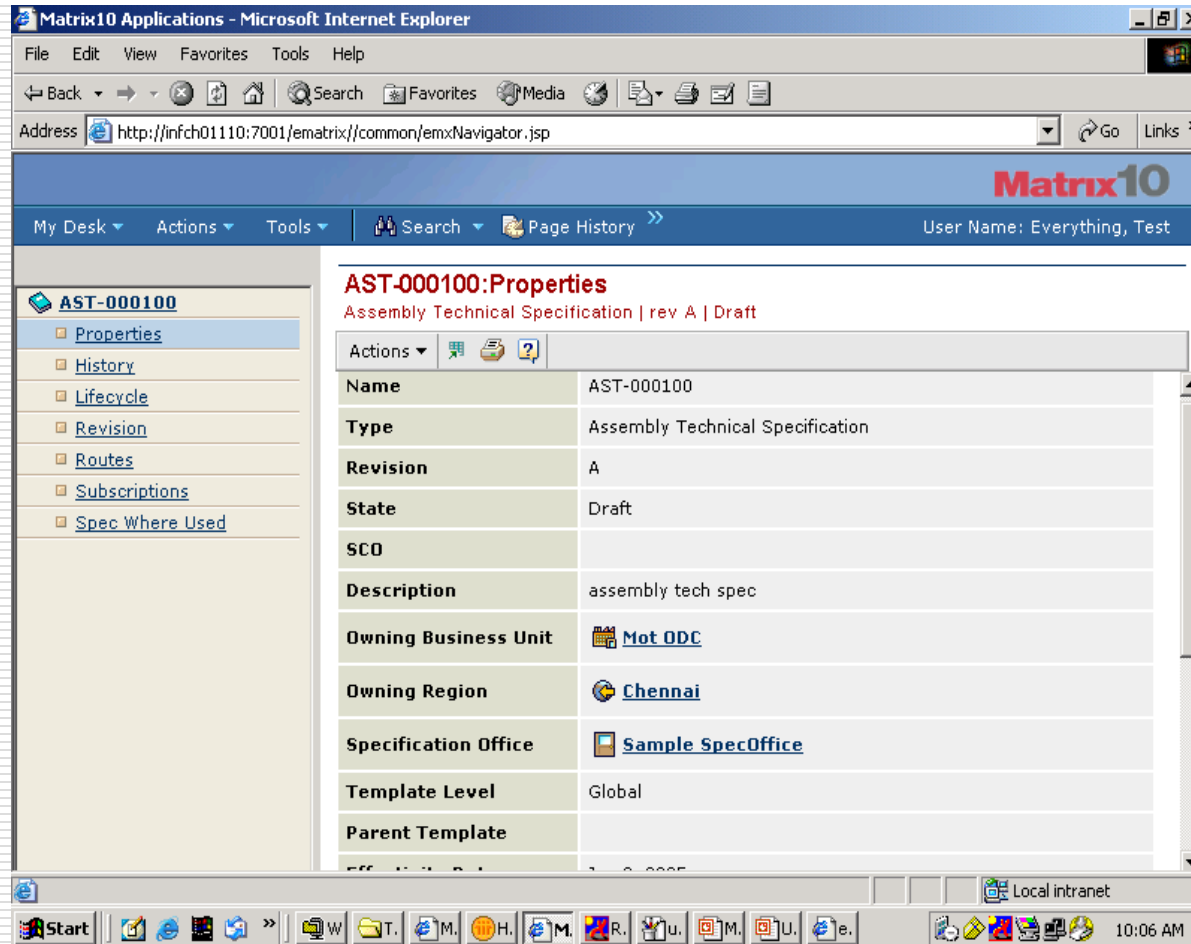
# UI3 Tree Navigation

## Pop up Type



# UI3 Tree Navigation

## Target Frame Type





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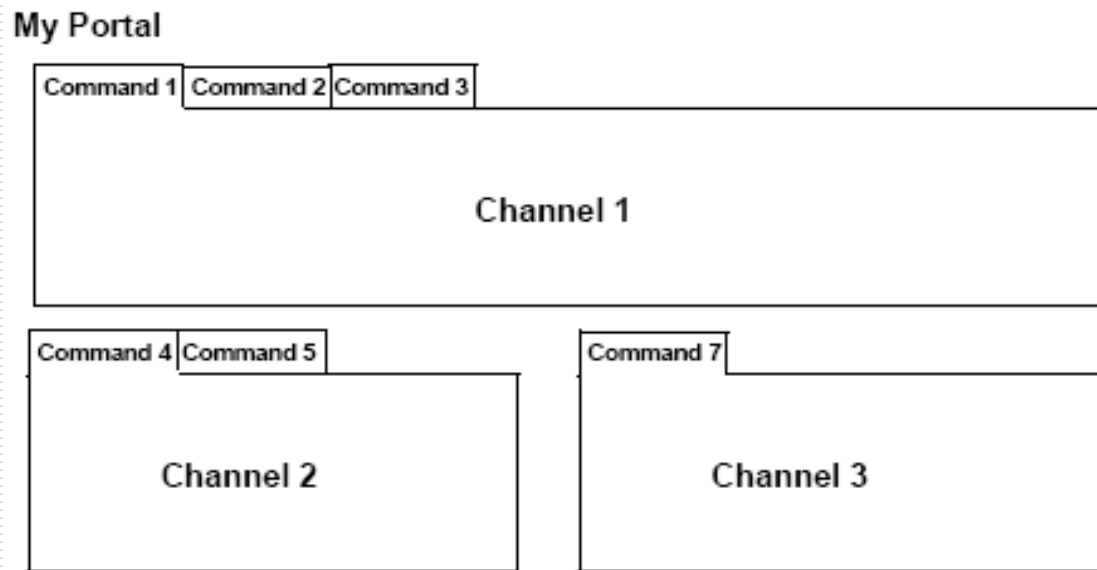
UI 3 Tables and Inquiry

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# UI3 Channels and Portals

- Channels are essentially a collection of commands.
- Channels define the contents of a portal.
- A Portal is a collection of channels, as well as the information needed to place them on a Web page



# UI3 Channels and Portals

The screenshot displays the Matrix10 user interface with three main panels. The top panel, 'My Collection', shows a list of items under the 'The Zone' tab. The bottom-left panel, 'Tasks', shows a list of tasks under the 'ECRs' tab. The bottom-right panel, 'CTQs', shows a list of CTQs under the 'Create New' tab.

**My Collection**

Name	Description	State	Owner	Created	Modified
<a href="#">Part-5001</a>	Machined Router Assembly	Review	Henson, George	1/3/2003	1/7/2003
<a href="#">ECR-5000</a>	Change to tolerance of our rim of router assembly.	Pending	Wayson, Jennifer	5/4/2002	12/13/20

**Tasks**

Name	Action	Task Instruction	Due Date/Time	Route
<a href="#">Task-5000</a>	Approve	Please approve ASAP	12/5/2001 12:30 PM EST	<a href="#">Route-5000</a>
<a href="#">Task-</a>		Need feedback on	12/2/2001	<a href="#">Route-</a>

**CTQs**

Name	Problem Statement	Goal	Data Type	Sigma-Goal	Si
<a href="#">CTQ-5000</a>	This is the problem statement.	This is the goal Statement	Discrete	4.01	5.0
<a href="#">CTQ-</a>	This is the problem	This is the goal	Discrete	4.01	5.0

# Channels

## Creating Channels from Business Modeler

### ■ Basics

- Name - Name for the Channel Object
- Description - Brief description for the channel
- Label - label to appear in the application in which the channel's portal is assigned.
- Height - Height size in pixels for the channel. Default is 260

The 'New Channel' dialog box, Basics tab, shows fields for Name, Description, Label, and Height (set to 260). There is an Icon field with a folder icon and a 'Hidden' checkbox. The 'Create' and 'Cancel' buttons are at the bottom.

The 'New Channel' dialog box, Link tab, shows a table with columns 'Name' and 'Value'. Below the table are 'Set' and 'Delete' buttons. The 'Create' and 'Cancel' buttons are at the bottom.

# Channels

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## Creating Channels from Business Modeler

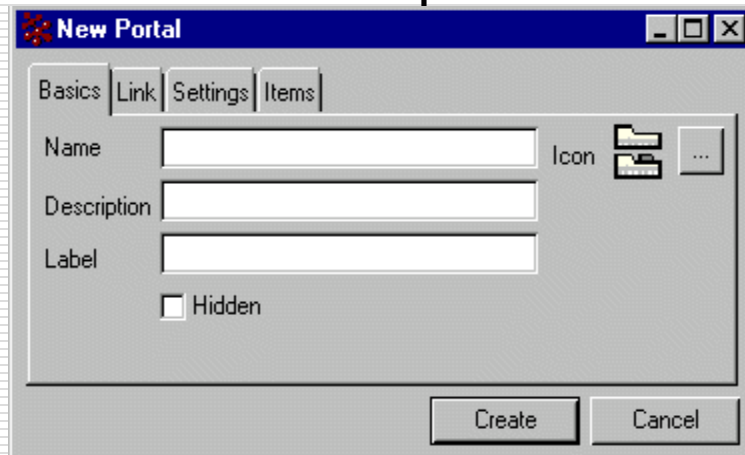
- Settings
  - Name-Value pairs used to send instructions to the AEF.
- Link
  - Href and Alt fields are same as that of commands and Menus.
- Items
  - Add commands to a channel

# Portals

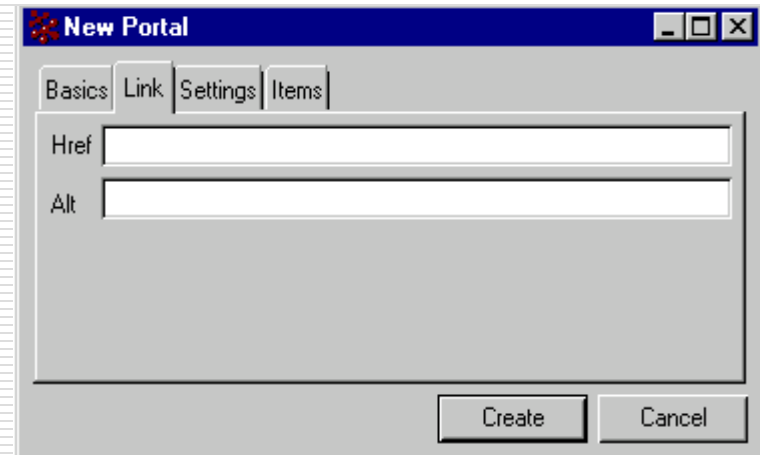
## Creating Portals from Business Modeler

### ■ Basics

- Name - Name for the Portal Object
- Description - Brief description for the Portal object
- Label - label to appear in the application in which the channel's portal is assigned.



The 'New Portal' dialog box, Basics tab, shows fields for Name, Description, and Label. There is an Icon field with a folder icon and a button. A Hidden checkbox is at the bottom. Create and Cancel buttons are at the bottom right.



The 'New Portal' dialog box, Link tab, shows fields for Href and Alt. Create and Cancel buttons are at the bottom right.

## Creating Channels from Business Modeler

- Settings
  - Name-Value pairs used to send instructions to the AEF.
- Link
  - Href and Alt fields are same as that of commands and Menus.
- Items
  - Add Channels to Portal. You can also re-arrange the channels by dragging them up or down.

# Common things to remember

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- In settings give the correct suite for your UI
  - Registered Suite - Framework
  - Target Location - content or popup
- See that you give access to specific persons whom you intend to, and not for all.
- Never handle built in UIs
- To create UIs you need Administrative access
- To view the UIs first, goto Tools Menu and click Reload Cache to see your UIs and modifications done on it.



# Questions

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Thank You !

Chennai