

# Light Signature AFP Example Based on jQuery

July 2011

# Agenda

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- Motivation
- Light Signature AFP example Look and Feel
- L-Shape API usage
  1. Setting up Portal Development Project
  2. Using L-Shape API to integrate Portal functionality
  3. Deploy Light Signature AFP example based on jQuery
- Configuration of Light Signature AFP example
  4. Creating new iView and Page Layout
  5. Creating new Framework Page
  6. Creating new Desktop
  7. Creating new Desktop Rule

# Motivation

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## Problem

Customers would like to customize The Ajax Framework Page implementation, just as they used to with the Classic Framework Page.



However, SAP doesn't support changes in the AFP source code

## Solution

Provides a simple implementation that imitates the look and feel of the Signature Design based on jQuery. The new example would be much easier to customize.

# Light Signature AFP example Look and Feel

This example imitates the look and feel of the Signature Design based on jQuery

The screenshot displays the SAP Universal Worklist interface. The top masthead includes the SAP logo, a search bar with 'SAP KM Search', and a 'Log off' link. Below this is a navigation bar with 'Back', 'Forward', 'History', 'Favorites', 'Personalize', 'View', and 'Help' options, along with a 'Welcome: administrator,' message. The main navigation area features icons for 'Home', 'Area Management', 'Role4', 'Support', 'PCD Tools', 'Content Administration', 'User Administration', and 'System Administration'. A secondary navigation bar shows 'Company', 'Work', 'Teams', and 'Documents'. The left navigation panel (DTN) lists 'Universal Worklist' and 'Personal Documents'. The main content area, titled 'Universal Worklist', shows a message 'No entries found to display' and tabs for 'Tasks', 'Alerts', 'Notifications', 'SAPoffice Mails', and 'Tracking'. Below the tabs are filters for 'Show: New and In Progress Tasks' and 'All', a 'Create Task' button, and a table with columns: Subject, Escalated !, From, Sent Date, Priority, Attachments, Due Date, and Status.

**Masthead**

**AFP Widgets**

**Top Level Navigation**

**Page Tool Bar**

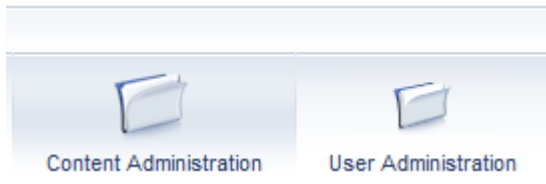
**Content Area**

**Left Navigation Panel (Detailed Navigation, DTN)**

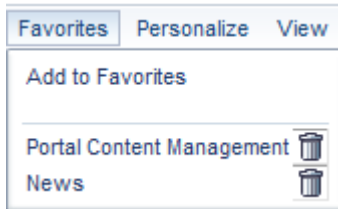
# Light Signature AFP example Look and Feel (Cont)

## Some Differences with Signature Design

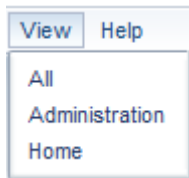
- Only 2-level TLN available, not configurable



- Favorites are shown in one level menu



- Tabsets are shown in one level menu



- Related Links and Dynamic Navigation not shown in Navigation Panel

# Source Code Review

## SAP NetWeaver Developer Studio

### Step 1

- Setting up Portal Development Project

### Step 2

- Using L-Shape API to integrate Portal functionality

### Step 3

- Deploy Light Signature AFP example based on jQuery

## SAP NetWeaver Portal

### Step 5

- Creating new iView and Page Layout

### Step 6

- Creating new Framework Page

### Step 7

- Creating new Desktop

### Step 8

- Creating new Display Rule

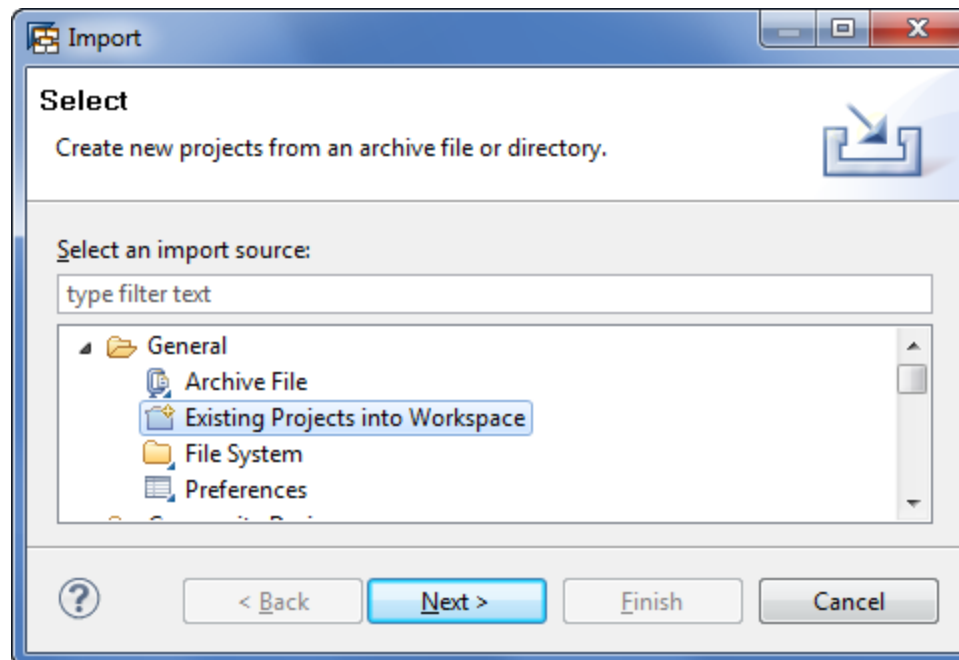
# 1. Setting up Portal Development Project

Download the source code from

- <http://wiki.sdn.sap.com/wiki/display/AFP/SAP+Portal+-+Ajax+Framework+Page>

Open SAP NWDS and click on *File* → *Import*

Select *General* → *Existing Projects into Workspace* and follow the wizard



# 1. Setting up Portal Development Project (Cont)

## Components

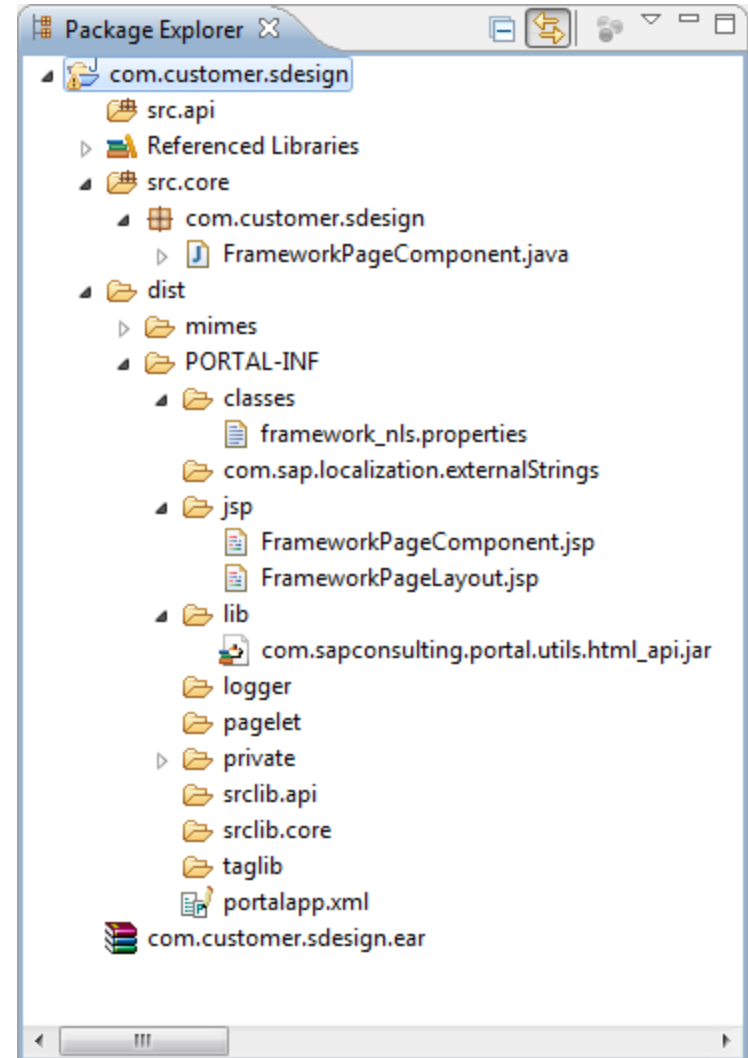
- **FrameworkPageLayout.jsp**

Defines a very stripped down one-column page layout used by the custom Signature Framework Page, the framework's HTML itself is defined in the following:

- **FrameworkPageComponent.java**

AbstractPortalComponent subclass which is the basis for the Signature Framework iView. It brings together the following subcomponents:

- **jsp/FrameworkPageComponent.jsp** : Defines the HTML code
- **mimes/framework.css**: Defines the style
- **mimes/framework.js**: Contains the LSAPI calls
- **mimes/jquery-1.6.1.min.js + mimes/jquery-ui-1.8.12.custom.min.js**: jQuery libraries used by framework.js
- **classes/framework\_nls.properties**: contains the resource bundle (here only English texts as default)





## 2. Using L-Shape API to integrate Portal functionality

### Navigation API

#### *Model*

LSAPI.AFPPlugin.model.

- getNode(name, callback, argument)
- getNavigationSubTree(name, callback, argument)
- getCurrentSelectedPath()
- getCurrentLaunchNode()

#### *Controller*

LSAPI.AFPPlugin.controller.

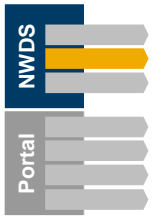
- registerOnNavigate(callback)

#### *Service*

LSAPI.AFPPlugin.service.

- initAjaxFrameworkPage()
- navigate(name, showType, parameters)

## 2. Using L-Shape API to integrate Portal functionality (Cont)



### Collection API

LSAPI.getCollectionsPlugin().

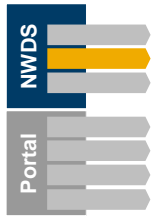
- getCollections(types)
- The LSAPI.getCollectionsPlugin().Types enumeration defines the following collection types: LINK, MENU, OPTIONS\_MENU, INPLACE\_LINK, DYNAMIC\_EXTENDED\_LINKS

### History API

LSAPI.getHistoryPlugin().

- getEntries()
- navigateToEntry(index)
- getCurrentEntryIndex(index)
- isBackwardEnabled()
- isForwardEnabled()
- back(isDoNavigate)
- forward(isDoNavigate)

## 2. Using L-Shape API to integrate Portal functionality (Cont)



### Favorites API

LSAPI.getFavoritesPlugin().

- getFavoritesProviders(callback, arguments)
- addFavorite(nodeURL, title, callback, arguments)
- deleteFavorite(ID, callback, arguments)

### Search API

LSAPI.getSearchProviderPlugin().

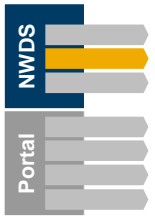
- getProviders(callback)
- getDefaultProvider()
- search(term, searchProvider, searchType, searchCategory)

### Configuration Object

LSAPI.AFPPlugin.configuration.

- getUser()

## 2. Using L-Shape API to integrate Portal functionality (Cont)



### Suggestion API

LSAPI.getSuggestionPlugin().

- getSuggestions(term, callback)

### Tabset API

LSAPI.getTabsetPlugin().

- getTabsets()
- registerOnTabsetSwitch(callback)
- getCurrentTabset()
- setCurrentTabset(tabsetId)

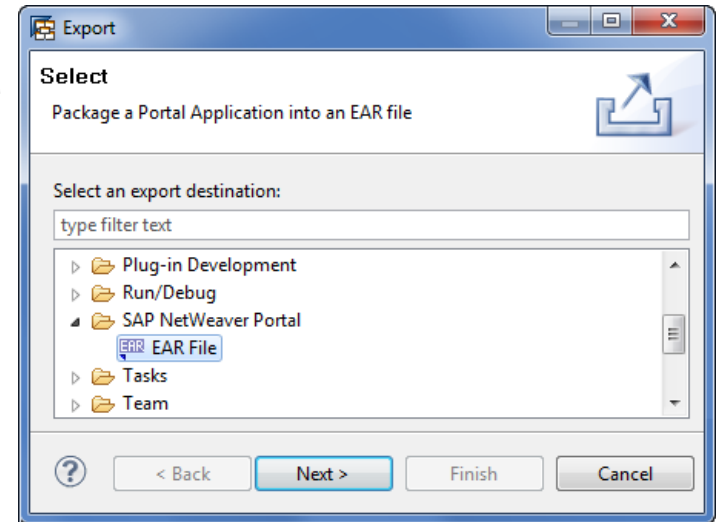
### Session Object

LSAPI.getSessionPlugin.

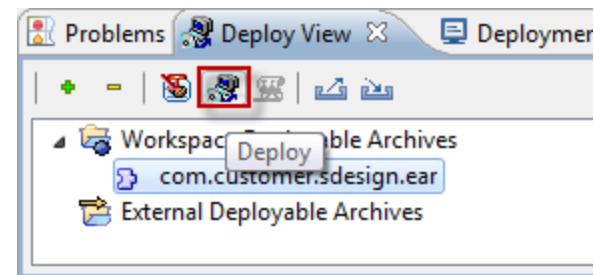
- logoff()

### 3. Deploy Light Signature AFP example based on jQuery

- If you modify the portal application, make sure you export this portal application into an EAR file



- Open the *Deploy View* and select *Workspace Deployable Archives*
- Follow the wizard and select the EAR file *com.customer.sdesign*
- Make sure *com.customer.sdesign* is selected and click the *Deploy* icon



# Configuration of Light Signature AFP example

## SAP NetWeaver Developer Studio

**Step 1**

- Setting up Portal Development Project

**Step 2**

- Using L-Shape API to integrate Portal functionality

**Step 3**

- Deploy Light Signature AFP example based on jQuery

## SAP NetWeaver Portal

**Step 5**

- Creating new iView and Page Layout

**Step 6**

- Creating new Framework Page

**Step 7**

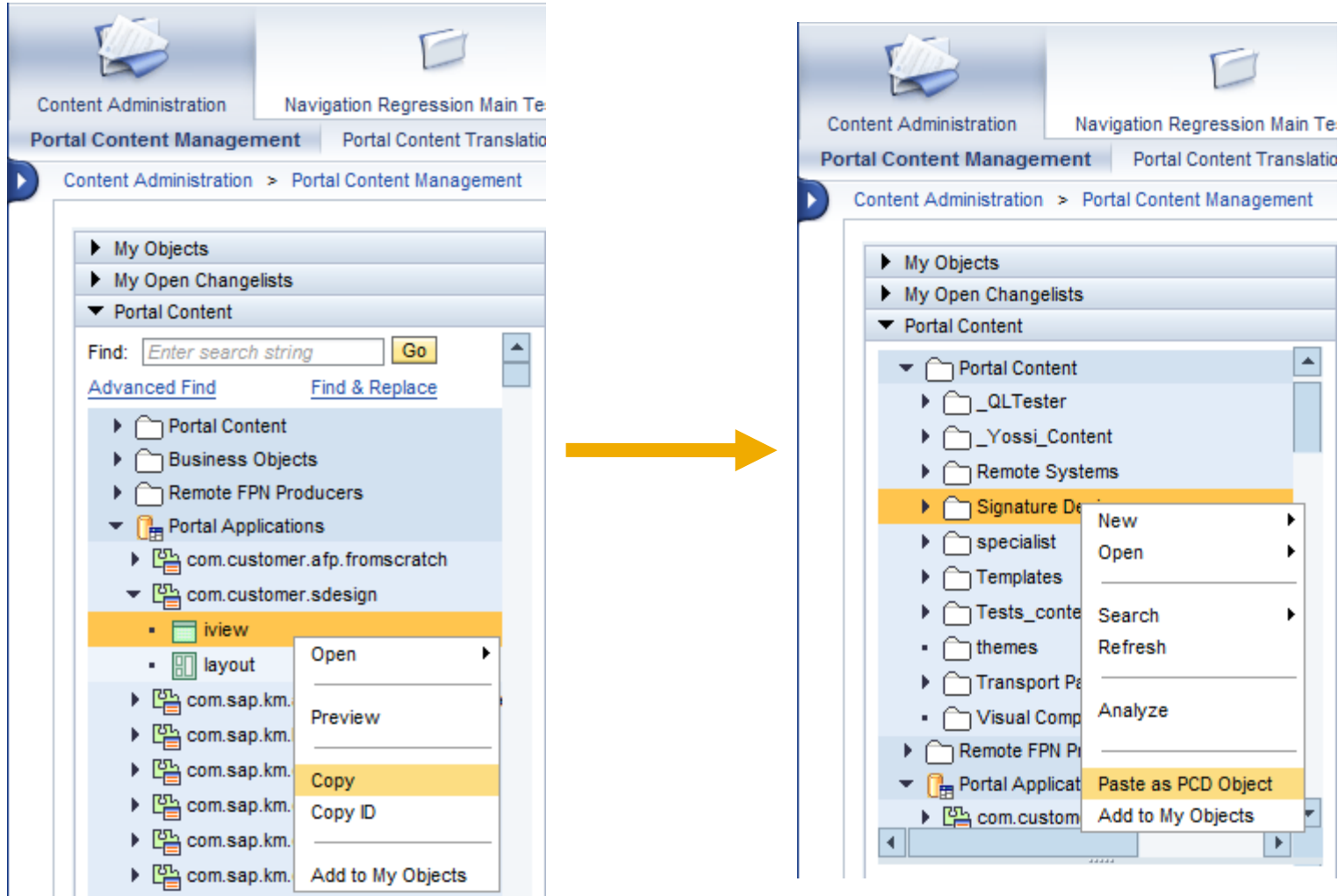
- Creating new Desktop

**Step 8**

- Creating new Display Rule

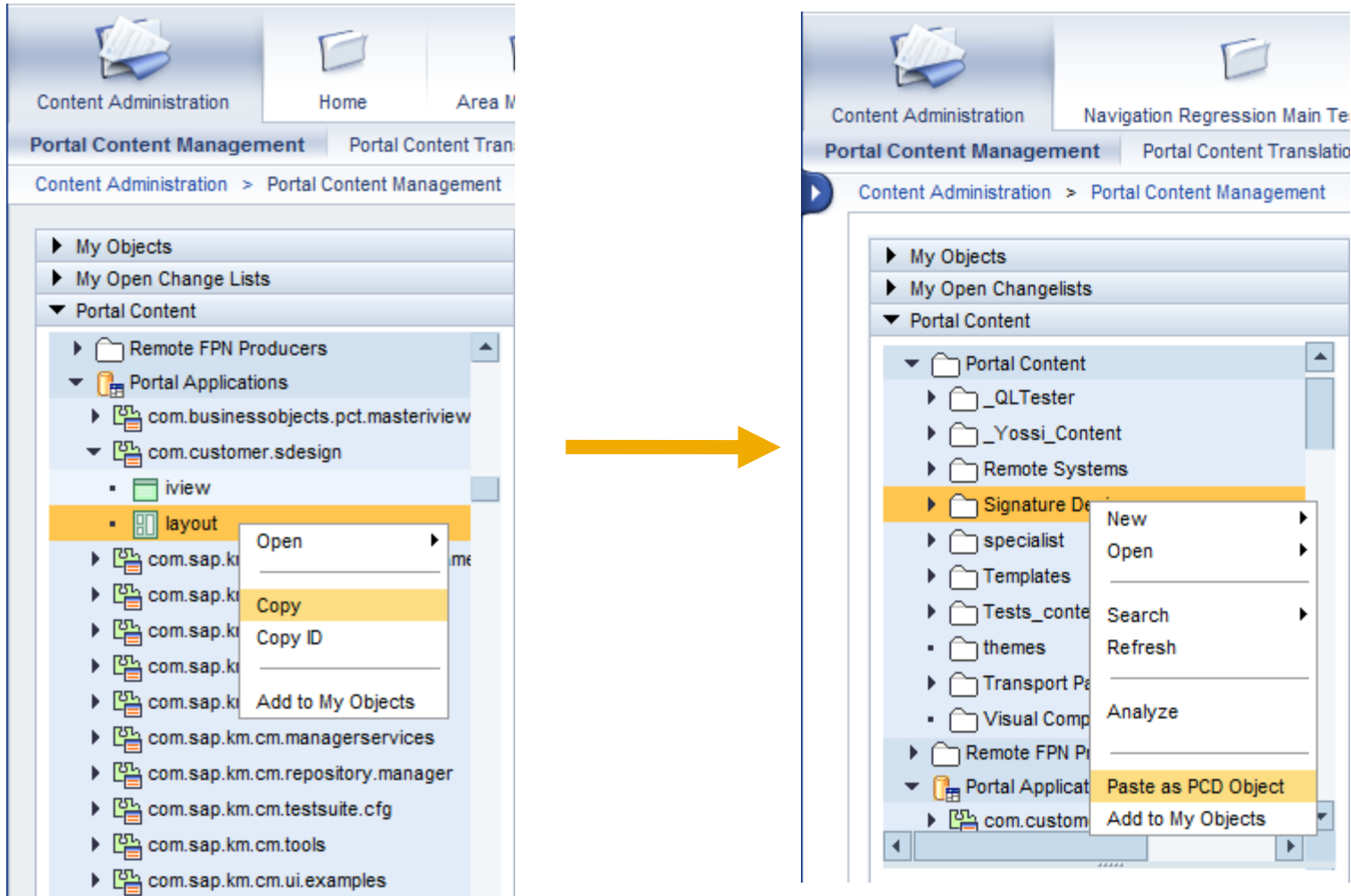
# 4. Creating new iView and Layout

Copy Portal Abstract Component iView and paste it as PCD Object in your folder



# 4. Creating new iView and Layout (Cont)

Copy Layout and paste it as PCD Object in your folder





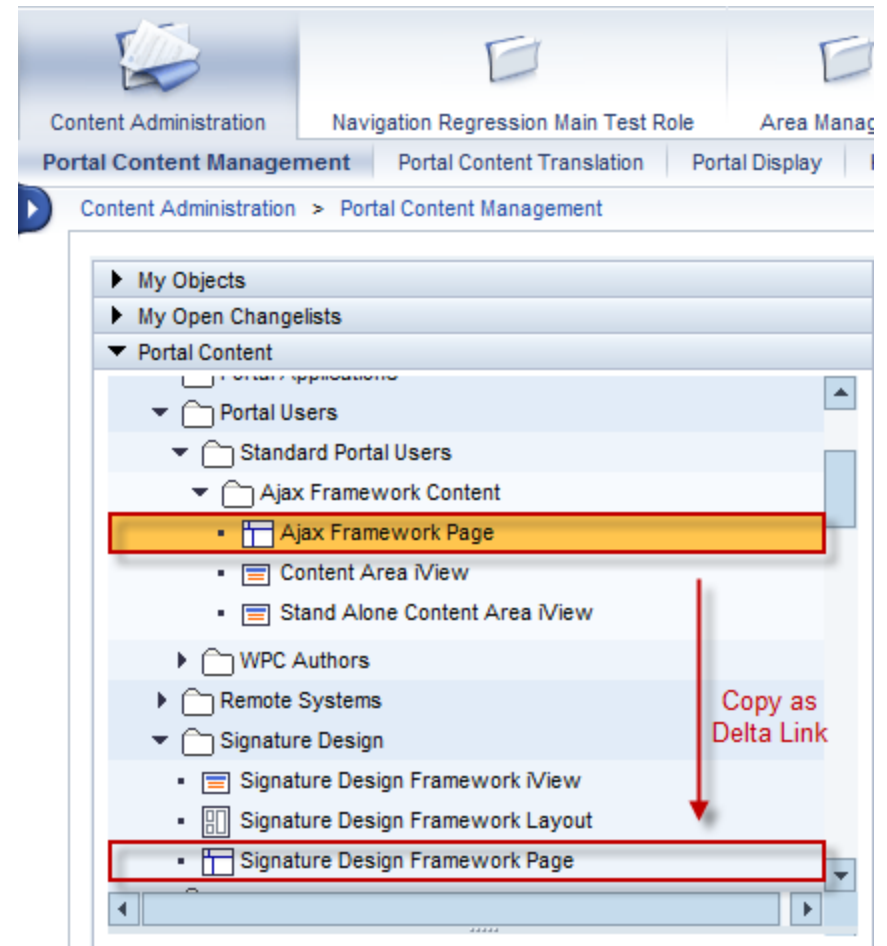
## 5. Creating new Framework Page

Go to Content Administration → Portal Content Management

Go to Portal Content → Portal Users → Standard Portal Users → Ajax Framework Content → Ajax Framework Page → right click → copy it.

Paste the framework page as Delta Link in a new folder

Rename Ajax Framework Page to Signature Design Framework Page



## 5. Creating new Framework Page (Cont)

Open Signature Design Framework Page and

- Change Current Layout to “Signature Design Framework Layout”
- Remove the page content, except the Ajax Headerless Framework Page and AFP Resources iView.
- Add Signature Design Framework iView

Save Refresh Edit Mode Close Preview

Overview Signature Design Framework Page

Page Properties Permissions Object-Based Navigation Related Links Dynamic Navigation Delta Link Tracer

From the Portal Catalog select the content that you want to add to the page.  
View the layouts currently assigned to the page and arrange the content. You can also add more layouts, remove layouts, and define a different default layout.  
To rearrange, drag and drop content items into and between layout containers. To remove a content item from page, right-click the selected item.

**Page Content and Layout Settings**

New Open Remove Move Up Move Down

Type	Name	Visible	Fixed	Container
	Ajax Headerless Framework Page	<input type="checkbox"/>	<input type="checkbox"/>	Content
	AFP Resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Content
	Signature Design Framework iView	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Content

Current Layout: Signature Design Framework Layout

Drag and drop operations are not supported for this type of layout.

**Content**

- Ajax Headerless Framework Page
- AFP Resources
- Signature Design Framework iView

## 6. Creating new Desktop

Go to *System Administration* → *System Configuration* → *Portal Display* → *Desktops & Display rules*

Create Portal Desktop by selecting *Add* → *Portal Desktop* from the context menu.

Add the new framework page created in previous step and favorite theme

The screenshot displays the SAP NetWeaver Desktop (NWDS) interface. The navigation path is: System Administration > System Configuration > Portal Display > Desktops & Display Rules. The 'System Administration' and 'System Configuration' tabs are highlighted with red boxes. The left sidebar shows the 'Desktops & Display Rules' menu item selected. The main content area shows a tree view of 'Portal Content' with 'Signature Design Desktop' selected. The right pane shows the 'Signature Design Desktop' configuration, including a table of framework pages and themes.

Name	Location
Framework Pages	
Signature Design Framework Page	pcd:portal
Themes	
SAP Tradeshow Plus	pcd:portal

## 7. Creating new Display Rule

Register the new URL alias in the portal's J2EE deployment descriptor (web.xml) in com.sap.portal.runtime.dispatcher.ear, which is located under EP-Basis SCA. For more information please visit

[http://help.sap.com/saphelp\\_nw73/helpdata/en/48/1d5d0171364269e10000000a421937/frameset.htm](http://help.sap.com/saphelp_nw73/helpdata/en/48/1d5d0171364269e10000000a421937/frameset.htm)

Define the navigation rule by going to *Desktops & Display rules* role. *Portal Content* → *Portal Administrators* → *Super Administrators* → *Master Rule Collection* → open → rule collection

The screenshot displays the SAP Portal Administration interface. On the left, a tree view under 'Portal Content' shows the navigation path: Portal Administrators > Super Administrators > Master Rule Collection. The 'Master Rule Collection' is selected and highlighted. The main area shows the 'Portal Display Rules Editor' for the 'Master Rule Collection'. At the top, there are buttons for 'Save', 'Refresh', 'Edit Mode', and 'Close'. Below these are tabs for 'Overview', 'Master Rule Collection', 'Rule Collection', 'Properties', 'Permissions', and 'Delta Link Tracer'. The 'Rule Collection' tab is active, showing a rule definition: 'IF URL Alias = portal/light' followed by 'THEN Portal Desktop = portal\_content/admin.system.sdesign/sd\_desktop'.

## Further Information

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### SAP Portal - Ajax Framework Page

<http://wiki.sdn.sap.com/wiki/display/AFP/SAP+Portal+-+Ajax+Framework+Page>

### Portal Platform - Ajax Framework Page Forum

<http://forums.sdn.sap.com/forum.jspa?forumID=391>

### Note 1166135 - Central Note for Ajax Framework Page with SAP NW

[https://websmp230.sap-ag.de/sap\(bD1lbiZjPTAwMQ==\)/bc/bsp/spn/sapnotes/index2.htm?numm=1166135](https://websmp230.sap-ag.de/sap(bD1lbiZjPTAwMQ==)/bc/bsp/spn/sapnotes/index2.htm?numm=1166135)

### Frequently Asked Questions

<http://wiki.sdn.sap.com/wiki/display/AFP/FAQ>



# Thank You!

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