

# Adapting Ajax Masthead from AJAX Framework to Customers Needs



## Applies to:

SAP Netweaver Portal 7.0 Ehp 2. For more information, visit the [Portal and Collaboration homepage](#).

## Summary

In this document you will find a description on how to create an AFP masterheader component based on the standard `com.sap.portal.navigation.afp.navigation.masthead`, that can be adapted to customers needs. Even though this kind of adaption is not the mainstream intended adaption method, it might come in handy if one has to perform just minor structural and design changes.

**Author:** Juergen Bechtle

**Company:** T-Systems International GmbH

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## Author Bio



Jürgen Bechtle is part of SAP PLM Competency Group in T-Systems, Systems Integrations. His field of work is mostly about SAP Netweaver Portal adaption and application development for the portal – Webdynpro, Java/Abap.

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## Overview

In Portal Version to 7.0 EhP 1 the AJAX Framework Page(AFP) has been introduced. As a consequence to this a change in the customer adaption paradigm was introduced. When using the AFP it is intended to follow 2 possible ways of portal design adaption:

1. change L&F by using the Portal Theme Editor, or
2. create an own Portal Framework implementation.

The formerly possible way of downloading standard portal components from the portal, adapt them to customers needs' and re-upload them isn't supported any more - and actually never was.

In this document we will analyse the **com.sap.portal.navigation.afp.navigation.masthead** component that can be downloaded from the portal as a par (portal archive) file. We will then discuss on how a copy of this component has to be adapted, so it can be back uploaded to that portal as a new component – representing a substitute for the standard masthead, with equal functionality but adapted viusal appearance.

## Analysis of the Downloaded par file.

### Directory Structure

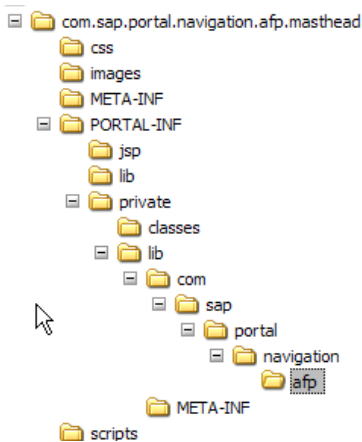


Fig. 1 the directory structure of the masthead component.

This is the directory structure of the downloaded component, we will go through all directories discussing their content.

### Directory css

contains Stylesheets **Masthead.css** and **lightHeader.css** which are referred to in **MastHead.jsp**.

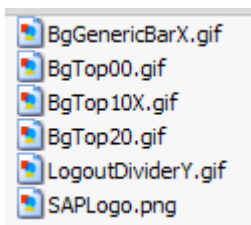
the paths inside have to be adapted:

```
url('/irj/portalapps/com.sap.portal.navigation.afp.masthead/images/BgTop10X.gif');
```

```
url('/irj/portalapps/com.customer.portal.navigation.afp.masthead/images/BgTop10X.gif');
```

### Directory images

contains the images used in the MastHead.jsp.



## Directory META-INF

### Buildinfo.xml

Contains lots and lots of entries related to the performce BUILD System of the SAP.  
These entries remain unchanged, as they are not needed in this stage.

in the following files MANIFEST.MF and SAP\_MANIFEST.MF the pattern **sap** has to be adapted to the customers(or additionally projects) name:**customer** nthe the patterns **02042010** and **032411** are representing a timestamp (for 04-02-2010 at 03:24:11)

### MANIFEST.MF

```
Manifest-Version: 1.0
Specification-Title: com.sap.portal.navigation.afp.masthead
Implementation-Title: com.sap.portal.navigation.afp.masthead
sap-perforceserver: performce3645.wdf.sap.corp:3645
Specification-Vendor: SAP AG
Specification-Version: 7.02
Implementation-Vendor-Id: sap.com
Implementation-Version: 7.0204.20100324115719.0000
Implementation-Vendor: SAP
sap-changelistnumber: 8252
```

### SAP\_MANIFEST.MF

```
Manifest-Version: 1.0
SDM-SDA-Comp-Version: 1
Ext-SDM-SDA-Comp-Version: 1
JarSAP-Standalone-Version: 20080124.1000
JarSAPProcessing-Version: 20080124.1000
changelistnumber: 82521
perforceserver: performce3645.wdf.sap.corp:3645
projectname: pp.lightning
docfile: buildinfo.xml
JarSAP-Version: 20080124.1000
keyname: com.sap.portal.navigation.afp.masthead
keyvendor: sap.com
keylocation: SAP AG
keycounter: 7.0204.20100324115719.0000
componentelement: <componentelement
name="com.sap.portal.navigation.afp.masthead" vendo
r="sap.com" componenttype="DC" subsystem="NO_SUBSYS" location="SAP AG"
counter="7.0204.20100324115719.0000" deltaversion="F" updateversion="
FB-20100415000411" componentprovider="SAP AG" servertype="P4" sourcee
rver="performce3645.wdf.sap.corp:3645" changenumber="82521" projectname
="pp.lightning"/>
JarSL-Version: 20080116.1000
compress: true
```

## Directory PORTAL-INF

### Portalapp.xml

This is the logical XML Deployment Deskriptor that is used inside the portal, the below described Tags are adapted.

Tag	Änderung
<application alias="XY.masthead">	XY → customer
<property name="Vendor" value="sap.com"/>	sap.com → customer

### Directory PORTAL-INF/jsp

This contains the **MastHead.jsp** that can be adapted to the customers needs.

### Directory PORTAL-INF/lib

Is empty, but it might be possible to place own libraries there, but then the portalapp.xml might has to contain references to the libraries stored here.

### Directory PORTAL-INF/classes

This directory contains the **AFPMasthead\_nls.properties** files these can be adapted (the texts can be altered), new keys can be added and referred to, inside the **MastHead.jsp** page.

### Directory PORTAL-INF/private/lib/

This directosy contains the jar file **com.sap.portal.navigation.afp.masthead\_core.jar**

THIS file has to be renamed to

com.**customer**.portal.navigation.afp.masthead\_core.jar

Inside this jar file there is a **META-INF/MANIFEST.MF** file, which might also has to be adapted

```

Manifest-Version: 1.0
Ant-Version: Apache Ant 1.6.5
Created-By: 1.5.0_16-b02 (Sun Microsystems Inc.)
Edition: 702VA
Implementation-Vendor-Id: sap.com
Implementation-Version: 7.0204.20100324115719.0000
Perforce-Server: perforce3645.wdf.sap.corp:3645
Changelist: 82521

Name: origin
project: pp.lightning
release: NW702_04_REL
subproject: _AFPMasthead
environment: com.sap.portal.navigation.afp.masthead_par
envtype: par
gendir: D:/depot/_build/pp/PPF433~1.LIG/NW702_~1/gen/dbg/java/sub/_AFP
Masthead/e/01

```

The jar file `com.customer.portal.navigation.afp.masthead_core.jar` contains

`MastHead.class` and `Utils.class`

→ so no source code is provided,

as we cannot change the implementation of the underlying classname, we leave this as is the classloader of the portal keeps the implementations separate and specific to the portalapplication, so the classes of the standard and our copy will coexist, without interfering each other.

### Directory scripts

This directory contains the scripts

`afpmasthead.js`, and

`afpmasthead.js.org`

These scripts used inside the `MastHead.jsp`.

## Create, Assemble, Deploy and use the Custom Masthead

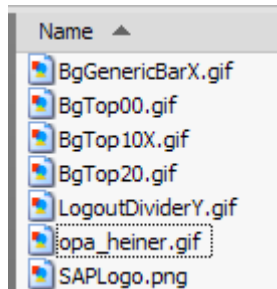
### Adapting the Masthead.jsp

#### Adding the logo-image

We would like to add a logo to the header, so we add the file `opa_heiner.gif` to the images directory.



Abbildung 1 `opa_heiner.gif`



#### Stylesheet usage in Masthead.jsp

In order to define the referred `logoOpaHeiner` class we adapt the **Masthead.css** in directory **css**.

The `.logolmg` is copied, and renamed to `.logoOpaHeiner`

Pittyfully this change in the css file is not reflected [I didn't do further research on why?], hence it is inserted as "inline" style which is not good style ;- ) but it is up to you to enhance it with an external stylesheet using e.g.

```
<% String css = componentRequest.getWebResourcePath() + "/css/myOwnStyles.css"; %>
<LINK REL="STYLESHEET" TYPE="text/css" HREF="<%=css%>">
```

For our particular case we use the MastHead.jsp directly:

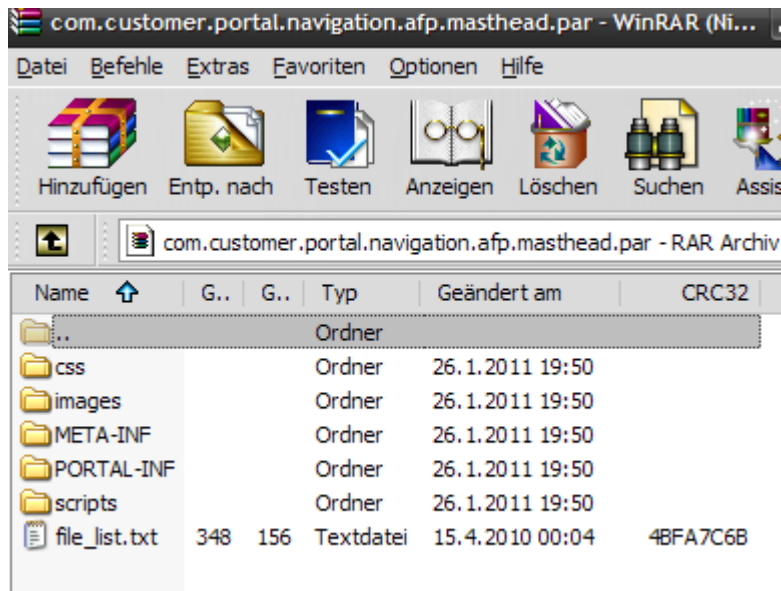
in the MastHead.jsp there is a **<style>** section just above the leading **<div>** Tag of the **mastheadEntry Table** [line 486], we add our style there, insert the div for our additional logo, and the div for our logo.


please notice, that we refer here to the customer application (...com.customer.portal.navigation.afp.masthead...).

```
.logoOpaHeiner {
    filter:progid:DXImageTransform.Microsoft.AlphaImageLoader(src='/irj/porta
lapps/com.customer.portal.navigation.afp.masthead/images/opa_heiner.gif',
sizingMethod='crop');
    padding:0px;
    float:left;
    width:31px;
    height:59px;
    background-color: 00FF00;
}
</style>
<div class="logoOpaHeiner"></div>
<div style="float:left">
```

### Creating a Deployable file

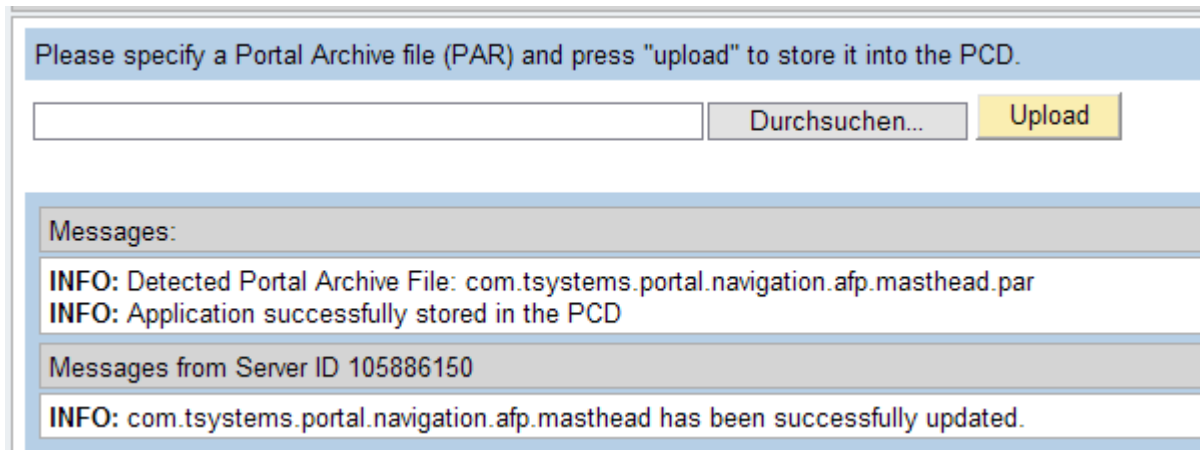
Create a new archive file in the “root” directory of the downloaded, enhanced par-file.  
Add all the files to the archive.



Rename the par file to 

## Deploy the file

The new masthead based on the Standard can be deployed using  
System-Administration→Support→Portal Runtime→Administration Console→ [file...]



## Create an iView from the archive

After deployment of the archive an administrative object (portal content directory object) needs to be created, the references the code base, and that can be used in the frameworkpage later on.

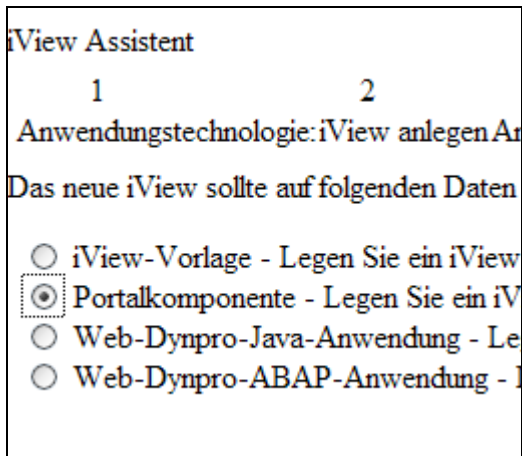


Fig. 2 create an iView from the deployed portal component.

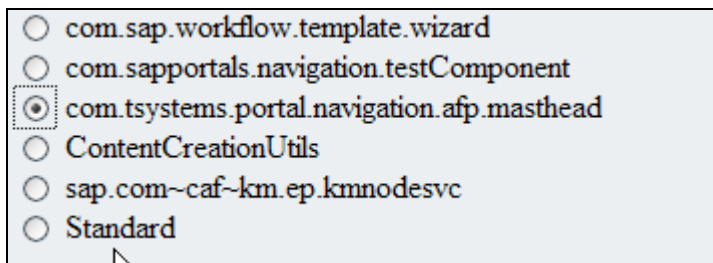


Fig. 3 select our deployed component.



View-Assistent  
Schritt 2:

Bei den unten stehenden Objekten handelt es sich um die Eigenschaften von der ausgewählten Vorlage.

Portalkomponente auswählen: \*

AFPMasthead

Fig. 4 select our portal application component.

View-Assistent  
Schritt 3: Allgemeine Eigenschaften

iView-Name: \*

iView-ID: \*

iView-ID-Präfix (Beispiel: com.companyname):

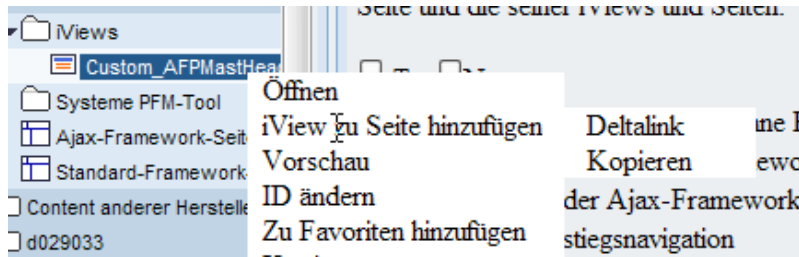
Originalsprache: \*

▼

Beschreibung:

Fig. 5 fill in the id, name and namespace values.

Add the iView to the Frameworkpage.



hide the standardmasthead iView.

Typ	Name	ID	Sichtbar	Fix
<input type="checkbox"/>	Ajax-Framework-Seite ohne Header	com.sap.portal.headerless_frameworkpage	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Portalkopf der Ajax-Framework-Seite	com.sap.portal.AFPMasthead	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Widgets der Ajax-Framework-Seite	com.sap.portal.AFPWidgets	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Ajax-Einstiegsnavigation	com.sap.portal.AFPTopLevelNavigation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Ajax-Feinnavigation	com.sap.portal.AFPDetaileNavigation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Dynamische iViews	com.sap.portal.AFPDynamicViews	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### The Resulting Adapted Masthead.

In the result, the image (normally would be a company logo) is displayed inside the custom-standard afpMasthead implementation. All in SAP HELP stated settings can be applied to this component as it basically is the standard component with just some add

▶ Show Link in Masthead: Collaborate	<input type="radio"/> Ja <input checked="" type="radio"/> Nein
▶ Show Link in Masthead: Help Center	<input type="radio"/> Ja <input checked="" type="radio"/> Nein
▶ Show Link in Masthead: Log In / Log Off	<input checked="" type="radio"/> Ja <input type="radio"/> Nein
▶ Show Link in Masthead: New Session	<input type="radio"/> Ja <input checked="" type="radio"/> Nein
▶ Show Link in Masthead: Favorites	<input checked="" type="radio"/> Ja <input type="radio"/> Nein
▶ Show logged in user in Masthead	<input checked="" type="radio"/> Ja <input type="radio"/> Nein
▶ Show Menu Bar in Masthead	true
▶ Show Menu in Masthead: Help	<input checked="" type="radio"/> Ja <input type="radio"/> Nein
▶ Show Menu in Masthead: History	<input checked="" type="radio"/> Ja <input type="radio"/> Nein
▶ Show Menu in Masthead: Personalize	<input checked="" type="radio"/> Ja <input type="radio"/> Nein

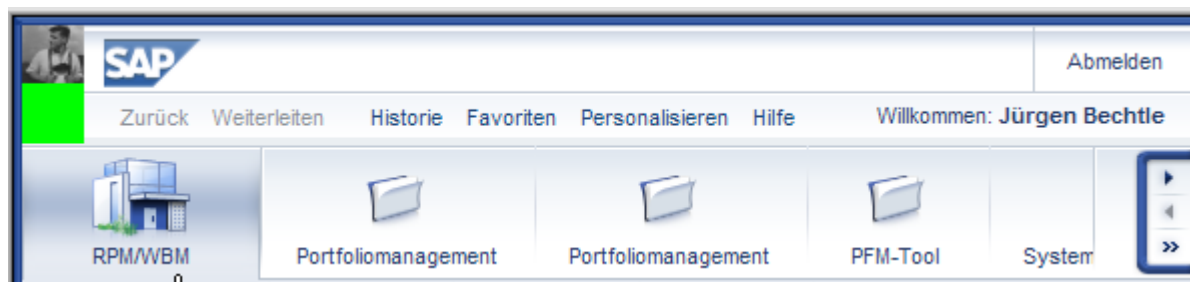


Abbildung 2 the result: my grandpas image in the portal. !

## Related Content

[discussion of this topic in portal forums.](#)

[the AJAX Frameworkpage in SAP HELP.](#)

[Inside SDN](#)

For more information, visit the [Portal and Collaboration homepage](#)

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