

Functionality Updates and Enhancements Provided with EP 6.0 SP2 Patches



SAP Enterprise Portal 6.0 SP2 Patch 3-27



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Icons in Body Text

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Additional icons are used in SAP Library documentation to help you identify different types of information at a glance. For more information, see *Help on Help → General Information Classes and Information Classes for Business Information Warehouse* on the first page of the any version of *SAP Library*.

Contents

1	Overview.....	1
2	Patch 3 Enhancements	2
3	Patch 4 Enhancements	3
	3.1 User Management and Security: New Features	3
	3.1.1 User logoff	3
	3.1.2 Integrated Windows authentication with Kerberos	3
	3.1.3 Integrated Windows authentication restricted to users from certain domains.....	3
	3.1.4 New procedure for changing the texts of notification e-mails.....	3
	3.2 Content Administration: Role Upload	4
	3.3 Navigation Enhancements	5
	3.3.1 Initial State of Navigation Panel	5
	3.3.2 Default Entry for Folder	5
	3.3.3 DTN: Allow Text Wrapping in Detailed Navigation	6
	3.3.4 DTN: Clicking Folder Name Launches First Node	6
	3.3.5 Page Runtime Property: Write Tray API.....	6
	3.4 End User Features	7
	3.4.1 Show iView Details Option	7
	3.4.2 Log-off Screen	7
4	Patch 5 Enhancements	8
	4.1 Navigation Enhancements	8
	4.1.1 Merge Priority	8
	4.1.2 TLN iView Caching	8
	4.1.3 Browser Back/Forward	8
	4.1.4 Help Link URL	9
	4.2 General Updates and Features.....	9
	4.2.1 Active Users Overview Now Available Through SAP J2EE Engine.....	9
	4.2.2 Optimize Performance of Session Release Agent	9
	4.2.3 Transport Log Files.....	9
	4.2.4 New JDBC and SAP Connector Property	9
	4.2.5 Portal Content Translation.....	9
5	Patch 27 Enhancements	11
	5.1 Workload Distribution	11
	5.2 Performance Data Management	11
	5.2.1 Performance Reporter	11
	5.3 Enhancement of Monitoring Data and UI	12

1 Overview

This document provides information on the functionality updates and enhancements added with the patches provided for Enterprise Portal 6.0 SP2.

The document provides the list of features per patch.

History of Changes

Date	Change
November 23 rd , 2004	First official release of this document

2 Patch 3 Enhancements

Patch 3 includes enhancements and bug fixes.

For information on the bug fixes provided with this path, see SAP note 685364.

The main enhancements of this patch are:

- Portal log files are now stored in a new location:
usr/sap/<instance_Name>/j2ee/j2ee_###/cluster/server/managers/log/portal/logs/
- Portal cluster is now improved:
 - New recommendations on configuring the portal nodes
 - The portal can be configured to work as Unix daemon or Windows service
- Real-Time Collaboration (RTC) features:
 - The Application Sharing server can now run in a portal cluster environment
 - The ActiveX control that runs RTC application sharing has been updated

3 Patch 4 Enhancements

3.1 User Management and Security: New Features

3.1.1 User logoff

By default users are redirected to the default logon screen after they log off from the portal. If the portal is set up to use client certificates or integrated Windows authentication, they are automatically logged on again, so it is impossible for them to log off the portal. If the portal uses an external Web access management tool to authenticate users, the portal logoff cannot delete the session identifiers created by the external tool. To provide a solution for these two issues, it is now possible to redirect users to a screen other than the default logon screen after they log off the portal. For more information, see SAP Note 696294.

3.1.2 Integrated Windows authentication with Kerberos

In addition to integrated Windows authentication with NTLM, the portal now supports integrated Windows authentication with Kerberos. You must use IISProxy module 1.5.0.0 or higher. See also SAP Note 706968 and the *SP2 SAP Enterprise Portal Security Guide* at service.sap.com/securityguide → *SAP Enterprise Portal 6.0 SP2 Security Guide* → *Authentication* → *Windows Authentication*.

3.1.3 Integrated Windows authentication restricted to users from certain domains

You can now restrict integrated Windows authentication to only accept users from a range of specified domains. For more information, see SAP Note 710032.

3.1.4 New procedure for changing the texts of notification e-mails

Previously, texts used in notification e-mails were packed in a jar file and were overwritten after every upgrade. Now the notification texts can be stored in the Portal Content Directory (PCD). For more information, see the following section on Changing the Texts of Notification E-Mails.

3.1.4.1 Changing the Texts of Notification E-Mails

Use

The portal is shipped with default texts for notification e-mails and these are stored in a JAR file on the file server. However, if you wish to modify the default texts, you can store the modified texts in the Portal Content Directory (PCD). The modified texts stored in the PCD have priority over the texts in the JAR file and will not be overwritten during an upgrade.

The notification texts are defined in packaged files where there is a different file for each language. User management also provides a range of placeholders that you can use in the text.

Procedure

1. Create a file for the language you require, and enter the texts that you wish to use for notification e-mails.

We recommend that you use an existing file and modify it as required. To modify an existing file, proceed as follows:

- a. On the file server, navigate to:

```
cluster\server\additional-lib\com\sap\security\api\  
com.sap.security.core.jar
```

- b. Extract the file `com\sap\security\core\util\notification\notificationTexts_<language>.properties`.



There is a separate file for each language. For example German texts are defined in `notificationTexts_de.properties`, Spanish texts are defined in `notificationTexts_es.properties`. If you wish to modify the e-mail message in several languages, you must modify all the corresponding files.

The following placeholders are defined and can be used to personalize the texts. For line breaks, use `\n` control sequence.

Placeholder	Description
{0}	DisplayName of the sending user
{1}	Salutation of the sending user
{2}	First name of the sending user
{3}	Last name of the sending user
{4}	DisplayName of the receiving user
{5}	Salutation of the receiving user
{6}	First name of the receiving user
{7}	Last name of the receiving user
{8}	Password of the receiving user
{9}	Free text. This is the text that the administrator or user can add in a text box, for example when creating a new user. In general, the free text placeholder should never be removed.

2. Save your file in the UME directory at `<SAP_J2EE_Engine_installation_directory>\ume` on the file server.



Make sure that the file is named according to the convention `com.sap.security.core.util.notification.notificationTexts_<language>.properties`.

3. Restart the java application server.
The file is uploaded into the PCD and the file on the file server gets a BAK suffix indicating that it has been uploaded.

3.2 Content Administration: Role Upload

You can use existing single and composite roles, transactions, MiniApps as well as authorization profiles from ABAP-based SAP systems if you are working with SAP Enterprise Portal. SAP Enterprise Portal offers you an upload tool for uploading objects (such as roles and transactions) from ABAP-based SAP systems to the portal. The uploaded objects are stored in the Portal Content Directory (PCD) and can be used in the portal administration environment to build portal content. The authorization profiles and their maintenance remain in the backend system and are used, for example, when you launch a transaction from the portal.

The role upload is a function for which you can use the following scenarios:

- You want to use existing role definitions of an ABAP-based SAP system in SAP Enterprise Portal.
- You want to use objects from ABAP-based systems (such as transactions or MiniApps) as content objects to build your own roles in the portal. These objects must therefore be available in the portal.

- Initially you upload all the relevant roles and objects from the ABAP-based SAP systems to SAP Enterprise Portal. In the future you only want to create and maintain your content objects from the portal.
- You upload newly created role definitions to the portal from the backend system at regular intervals. You do this in particular when you use the ABAP-based SAP system as the leading system for building content. In this case you still create your roles in this system and only use the portal as a medium for display and navigation.

For more information about the role upload tool, see the How-to Guide Role Upload from ABAP-Based Systems. You can find this guide at service.sap.com/ep60 → *How-to Guides* → *Current How-to Guides*.

3.3 Navigation Enhancements

3.3.1 Initial State of Navigation Panel

By default, the initial display status of the navigation panel depends upon the existence of content in any of the navigation iViews. However, there are users who under certain circumstances may want the navigation panel expanded or contracted regardless of the status of the navigation iViews. For example, when working with a specific iView, the user might want the entire portal screen devoted to the content area.

It is possible to determine the initial display status of the navigation panel, per navigation object, by setting the *Initial State of Navigation Panel* property for each page and iView in the Roles folder.

The property belongs to the *Navigation* category and can be defined at the page and iView level through the Page Editor or iView Editor. For more information, see *Page Editing* and *Editing iView Properties*.

The values of the property are:

- *Automatic*: The navigation panel is displayed only if there is content in any of the navigation iViews.
- *Closed*: The navigation panel is always retracted, even if the navigation iViews contain valid display items.
- *Open*: The navigation panel is always expanded, even if there is no content to display in the navigation iViews.

The navigation panel always performs according to the property setting of the selected navigation node.

3.3.2 Default Entry for Folder

A page/iView property defining an object as the default that displays when its folder is launched.

The values are:

No: (Default) This is not the object that displays automatically when the folder is clicked.

Yes: This is the object that opens automatically when the folder is clicked.

When there are multiple *Yes* objects, the first one in the role structure is the default entry.

Interactive Examples:

The following are sample scenarios of how the property *Default Entry for Folder* interacts with the property *Clicking Folder Name Launches First Node*.

Scenario 1:

A folder *Customers* has its *Clicking Folder Name Launches First Node* property set to *Yes*. It contains a third-node page *New York Customers* whose *Default Entry for Folder* property is set to *Yes*.

Result: The setting of the page property, *Default Entry for Folder*, takes precedence and the page is displayed.

Scenario 2:

A folder *Customers* has its *Clicking Folder Name Launches First Node* property set to *No*. This means that no page should be launched when the folder is clicked. However, it contains a page whose *Default Entry for Folder* property is set to *Yes*.

Result: The setting of the page property, *Default Entry for Folder*, takes precedence over the folder property setting, and the page is displayed as soon as the folder is launched.

3.3.3 DTN: Allow Text Wrapping in Detailed Navigation

This property determines if text entries that are longer than the display width of the DTN iView are wrapped to the next line.

- Setting the property to *Yes* allows the text to wrap.
- Setting the property to *No* activates a horizontal scroll bar, allowing you to view the entire text of entries that exceed the available display width.

3.3.4 DTN: Clicking Folder Name Launches First Node

It is possible to set a property in the Detailed Navigation iView that controls the default display behavior of a launched folder. This property setting determines whether the first page is automatically launched when the folder is clicked, or if the folder merely displays its contents.

The values are:

- *Yes*: (Default) First item is launched, unless a different item has been defined as the default opening entry
- *No*: Folder opens but user must click an item to launch it

To set the property:

1. In the Portal Content, go to *Portal Users* → *Standard Portal Users*, and right-click to edit the *Default Framework Page*.
2. Choose *Desktop Inner Page* and click *Edit*.
3. Choose *Detailed Navigation* and click *Edit*.
4. Find the property *Clicking Folder Name to Launch First Node*, and set it accordingly.
5. Save the setting.

3.3.5 Page Runtime Property: Write Tray API

During runtime, the PageBuilder checks the content of a page and performs automatic optimization regarding network traffic overhead (code generated by the page). The resulting page consumes less bandwidth and loads faster.

To provide a further performance enhancement, set the property *Write Tray API* to *False*. This tells the page that iView tray functionality is not needed for the iViews on the page.

3.4 End User Features

3.4.1 Show iView Details Option

Details is a new entry in the context menus of the Page Title Bar and the iView Tray. Clicking this option displays:

- The portal component, which is the iView ID
- The object ID, which is the path to the iView's PCD location

This functionality is activated through the *Show 'Details' Option* property.

To set the property:

1. Access the Property Editor of the object to which you want to add the functionality.
2. From the *Property Category* drop-down menu, choose *Appearance - Tray*.
3. Find the *Show 'Details' Option* property, and set the value you want. The default value is Yes.
4. Save the setting.

3.4.2 Log-off Screen

To log off SAP Enterprise Portal, click *Log Off* in the masthead and choose *Yes* in the displayed prompt. The portal session is terminated and you are redirected to the logon dialog box of the Welcome screen.

If your company is using a third party authentication server, Enterprise Portal allows you to redirect to an external logout page to be displayed after logout. For information see SAP Note **696294**.

4 Patch 5 Enhancements

4.1 Navigation Enhancements

4.1.1 Merge Priority

When roles are merged, it is possible to also merge various same-level nodes within the roles. One of the properties that needs to be set in order to accomplish this is *Merge Priority*. This is a property that determines which node in a merged group will be the dominant node, affecting the title, the show type, the sort priority, and other properties of the merged node. Using the **Role Editor**, set the property for all the entries and nodes that are to be merged in each role.

- In the property list of the editor, search for the property Merge Priority and assign a numeric value from 0 – 100.
- The lower number has the higher priority.
- The default value is 100. If you do not set this property for any of the nodes, then the first node in the role hierarchy will be the dominant node.

For more information about merging and the other properties that need to be set, go to the SAP Help Portal, [//help.sap.com](http://help.sap.com), and navigate to Documentation/SAP NetWeaver/Release 04/SAP Library/SAP NetWeaver/People Integration/Portal/Administration Guide/Content Administration/Navigation/Top-Level Navigation/**Merging Navigation Nodes and Defining the Sequence**.

4.1.2 TLN iView Caching

As an enhancement to portal performance, you can cache an instance of the top-level navigation (TLN) iView for every role combination existing in your portal.

Although all users with the same role combination will see the same TLN, and have the same instance in the cache, users with different themes/languages/browser versions will have separate TLN instances, as this is generic iViews-Cache behavior.

TLN caching is activated through the *Roles* option of the *Cache Level* property of the TLN iView.

The TLN cache is not automatically refreshed. For optimal benefit and portal performance, set the *Cache Validity Period* property for a time span that correlates effectively with the relative stability of the TLN iView.

For example, if the iView is stable, a valid setting would be 24 hours. If the iView is still undergoing frequent changes, a more logical setting would be 10-15 minutes, so that users have an up-to-date version of their TLN bar.

If you have activated the TLN cache, and set the cache validity to reflect a stable situation, do not update the iView too frequently within the set time span.

As with any cached iView, the TLN iView cache consumes memory resources. Therefore, using the TLN cache is reasonable when:

- The number of role combinations is relatively small
- It is likely that many users with the same role combination will log on to the portal during the validity period time frame.

However, if the portal has many roles, and many role combinations, using the TLN cache may not prove efficient.

4.1.3 Browser Back/Forward

You can use the Back button/arrow and the Forward arrow of your Internet browser to return to a previous page; the TLN and DTN adjust themselves accordingly.

4.1.4 Help Link URL

Help Link URL for the End User

By default, the Help link in the portal masthead launches the SAP Help Portal on the World Wide Web. From there you can navigate to view the current Enterprise Portal End User Guide for your version of the portal.

Your administrator has the option of changing the URL value when editing the masthead items, in which case, you may reach a different site than the SAP Help Portal when clicking this link.

Help Link URL for the Administrator

The Masthead iView contains a Help link that, by default, launches the SAP Help Portal. You can now customize the URL so that the link goes to a site of your choosing. To change the default URL:

1. In the Portal Catalog, expand the folders *Portal Users* → *Standard Portal Users*.
2. Right-click *Default Framework Page* and choose *Open* → *Object*.
3. Select *Masthead iView* and click *Properties*.
4. In the Property Editor, from the Property Category list, select *Navigation*.
5. For the *Help Link URL* property, enter the URL of the site you want launched when the user clicks the Help link.
6. Save your changes.

4.2 General Updates and Features

4.2.1 Active Users Overview Now Available Through SAP J2EE Engine

In the past you could call and configure the user overview in the portal from System Administration. With Patch 5, this service has been removed. Information concerning active users is now provided by the J2EE Engine. For details on how to access the user overview from this patch on, see SAP note **762004**.

4.2.2 Optimize Performance of Session Release Agent

You can now optimize the performance of the Session Release Agent feature, by configuring a new parameter. The new parameter, available with this patch, configures the distribution process of special HTTP requests. For details see SAP note **765914**.

4.2.3 Transport Log Files

When you perform an import or an export, log files are automatically created. These log files can be monitored via the CCMS tool and displayed via the log viewer tool.

For more information see <http://help.sap.com/nw04> → *SAP Library* → *SAP NetWeaver* → *People Integration* → *Portal* → *Administration Guide* → *System Administration* → *Transport, Upload and Content Mirroring* → *Transport of Portal Objects*.

4.2.4 New JDBC and SAP Connector Property

A new property in the SAP/JDBC portal system template, *Validate Connection*, confirms the physical connection to the back-end system. For information, see SAP Note **754281**.

4.2.5 Portal Content Translation

SAP Enterprise Portal provides a process for translating the following text types:

- Resource bundles
 - Text parts of a PAR file that exist as separate objects

- Texts of portal objects, such as iViews, pages, worksets, roles, systems, and so on.
Multilingual object metadata for portal objects that is stored in the database of the Portal Content Directory (PCD). If a property (name, description) of a portal object has type *text attribute*, it is marked as text and can be translated.

The translation process is supported by two tools used to coordinate and translate worklists for translation. They can be called from the content administration role as follows:

- From the portal top-level navigation, choose *Content Administration* → *Portal Content Translation* → *Translation Worklist Coordination* or *Worklist Translation*

You can find the documentation of the Portal Content tools in the NetWeaver documentation.

For more information see <http://help.sap.com/nw04> → *SAP Library* → *SAP NetWeaver* → *People Integration* → *Portal* → *Administration Guide* → *Content Administration* → *Portal Content Translation*.

5 Patch 27 Enhancements

5.1 Workload Distribution

With the new feature, workload distribution, you can optimize the stability, availability and load of your portal. It is a mechanism for assigning specific content-driven workload to sub-topologies of the J2EE Engine cluster setups – the zones. It is based on the handling of external requests. A zone consists of one or more J2EE instances. An instance consists of a J2EE Engine Dispatcher and one or more application servers.

You isolate certain parts of the portal that can cause problems. By assigning a topic to a zone, the corresponding code can be entirely isolated from other code parts with respect to session management, server-side eventing, etc. You define zones (one or more J2EE instances) in your J2EE cluster environment. You then assign portal content (portal applications, roles, worksets, pages or iViews) to these zones from the portal system administration.

To use this feature, you need SAP Web AS Java 6.20 SP25 and SAP kernel patch 1624.

For details see "How to implement Workload Distribution" on the SAP Service Marketplace, alias "ep60howtoguides".

5.2 Performance Data Management

With the new feature, performance data management, values relevant for the performance of the Portal Runtime can be continuously collected and swapped for later analysis. For this purpose the data of the Portal Runtime are written to file "PortalCounters.tsv".

To use this feature you need SAP Web AS Java 6.20 SP26. With a shell command you activate collection and swapping of the monitoring data. Afterwards the data is available via HTTP.

In the next step, you download and deploy the J2EE application attached to SAP Note **766839**. Access the start page of this application with <http://<host>:<port>/perfviewer> and log on with the user name and password of the J2EE Engine administrator. You can download two assistants for offline performance analysis: the Performance Viewer and the Performance Reporter along with detailed documentation.

These assistants offer advanced features for evaluation of monitoring data, such as statistical calculations and graphical representation of different combinations of monitoring counters. The performance views offer meaningful combinations of performance counters retrieved from Java Application Responsetime Measurement (JARM) and monitors of the J2EE Engine.

5.2.1 Performance Reporter

The **Performance Reporter** is a Java application that generates html reports about collected data. A report presents the most important state counters of the system grouped in several views:

- Application Activities View
- Resource Consumption View
- Capacity Planning View
- Error Detection View
- Component Performance View
- JARM Request Performance View

The report is an excellent starting point for system performance analysis. Detailed graphs showing correlating performance counters lead to meaningful system and application performance overviews and reliable tracks to performance issues. The reports can also be used for tuning purposes since they give a full overview of memory, thread, sessions, etc. over the period of collections. Any underestimated or overestimated configuration is visible at once.

Portal Runtime data are not analyzed by the Performance Reporter. You have to use the Performance Viewer. The Performance Viewer is an offline assistant for performance analysis. It offers advanced features for evaluation of monitoring data, like statistical calculations and graphical representation of different combinations of monitoring counters. The tool can combine and represent different counters collected on the same or even different systems and in different intervals. This makes it very useful in analysis tasks. The input data for the Performance Viewer are the same files over which the Performance Reporter generates its reports. The benefit of using the Performance Viewer is that multiple files can be opened at the same time and the counters can be mapped together.

Collection of the Portal Runtime data for Performance Data Management is enabled by default. To stop collection, you have to change the settings of the service StateMonitor of portal application `com.sap.portal.runtime.application.monitor` (enter "off" for property `StateMonitoring.reporting`). See also SAP Note **774694**.

Note: You can now also access the user session overview, which was removed from the portal navigation with Patch 5 (see SAP Note **762004**), from the start page of the Performance Data Management.

5.3 Enhancement of Monitoring Data and UI

Base: Java Libs PatchLevel 14 (Note **760150**) is required.

In the performance monitoring iViews "Request Summary", "Request Overview" and "Component Overview", the Java Application Responstime Measurement (JARM) now provides additional data concerning CPU time measurement:

- CPU Time for All Requests (total CPU time needed to process all requests in the backend system [msec])
- Average CPU Time of a Request (average CPU time needed to process a request in the backend system [msec])
- CPU Time (CPU time needed for processing in the corresponding backend system)
- Component with Largest Net CPU Time (the „slowest“ component. The net CPU time of a component is the gross CPU time of the component less the gross CPU time of their subcomponents)
- Net CPU Time (net CPU time for the component [msec])
- Gross CPU Time (gross CPU time for the component [msec])
- Average Gross CPU Time (Average gross CPU time for the component [msec])
- Average Net CPU Time (Average net CPU time for the component [msec])

For better readability, the name of the requests and components are displayed in short form in the statistics tables. The complete name is stored in the tooltip.

See also SAP Note **646767**.