

**Business Package for Portal  
Development Kit 60.6.0  
for EP 6.0 SP6 -  
Netweaver 04 Stack 04**



ADDON.EP\_PCT\_PDK



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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 any version of *SAP Library*.

## Typographic Conventions

| Type Style          | Description  |
|---------------------|--|
| <i>Example text</i> | Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.<br><br>Cross-references to other documentation.                              |
| <b>Example text</b> | Emphasized words or phrases in body text, graphic titles, and table titles.  |
| EXAMPLE TEXT        | Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE. |
| Example text        | Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.                                   |
| <b>Example text</b> | Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.  |
| <Example text>      | Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.   |
| EXAMPLE TEXT        | Keys on the keyboard, for example, F2 or ENTER.  |

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## Business Package for Portal Development Kit

### Management Summary

The *Business Package for Portal Development Kit* offers a collection of **Java Source Examples** enabling developers to develop content for SAP Enterprise Portal. It consists of tutorials that explain how to develop portal components using the public Java API (application programming interface) of SAP Enterprise Portal.

For EP content development a running Enterprise Portal is needed and the Netweaver Developer Studio for the respective EP release.

### Platform Limitations

The *Business Package for Portal Development Kit* is available for Windows 2000 and Windows XP with MSSQL Server 2000 only. Unix platforms are not supported.

PDK 60.6.0 is released for with EP 6.0 SP6 on WebAS 6.40 Java.

### Known Platform Issues

PDK versions prior to 60.4 should be uninstalled completely with "Archive Remover" and "Portal Content Studio" before installing PDK 60.6.0. PDK versions 60.0.0 until 60.2.0 use portal objects with technical ids having upper cases. In case of overwriting with this version, this leads to undefined states on Windows filesystem.

After installation of PDK, SAP Enterprise Portal or "irj service" **must be restarted** to invalidate cached objects.

There is a known limitation in software distribution manager SDM. On smaller platforms – like laptops – deployment of javadocs aborts due to java.lang.OutOfMemory error. A possible workaround is to "tweak" heapsize setting of SDM (set higher).

Example "OBN Webdynpro" does not work correctly with current patch level of EP SP6 P3.

### Business Value

The *Business Package for Portal Development Kit* is intended for skilled Java developers that write custom content for SAP Enterprise Portal. The *Business Package for Portal Development Kit* works together with the SAP NetWeaver '04 Developer Studio, that includes wizards that automate tasks such as compiling Java classes, creating a Portal Archive, and uploading the Portal Archive directly into the portal.

The *Business Package for Portal Development Kit* provides tools for the following tasks:

- Viewing detailed information, such as configuration files, for all portal applications available in the portal
- Viewing source code of example portal components shipped with the business package
- Tutorials and example source code to assist portal application developers in the development process
- Documentation of public portal APIs (application programming interfaces)
- HTMLB for Java Reference

## Technical Data

|                               |  |
|-------------------------------|--|
| <b>Availability</b>           | SAP Enterprise Portal 6.0 SP6 – Windows Platforms  |
| <b>Browser Recommendation</b> | See Product Availability Matrix for SAP Enterprise Portal 6.0 SP6 at <a href="http://service.sap.com/ep">service.sap.com/ep</a> → <i>Product Information</i> → <i>Enterprise Portal 6.0</i> → <i>Product Availability Matrix</i> . |
| <b>Languages</b>              | EN English   |
| <b>Data Source</b>            | SAP System greater than or equal to 4.0B that fulfils the prerequisites for Single Sign-On with SAP logon tickets.<br>SAP System greater than 6.20 for using webservice.   |
| <b>Support Component</b>      | EP-PDK   |

## Supported Roles

This business package contains the *Java Developer* (com.sap.pct.pdk.JavaDeveloper) role which consists of the following worksets: Tools, Getting Started, User Interface Development, Portal Development, Portal Runtime Technology, Knowledge Management, Javadocs.



## Technical Description and Configuration Information

### Purpose

The following procedure describes how to install the *Business Package for Portal Development Kit* in a portal and how to configure the portal so that the example iViews work correctly.

### Prerequisites

You have installed a standard SAP Enterprise Portal either locally on your personal PC or on a test server. Optinally you have installed SAP Netweaver Developer Studio.

You have uninstalled other PDK versions completely with “Archive Remover” and “Portal Content Studio”.

## Installation

### Import the Business Package for Portal Development Kit into your portal installation

The business package is delivered in SCA format and you must use the Software Deployment Manager (SDM) to install it. For more information, see **SAP Note 731386**.

Check after deployment if all Portal Archive were deployed correctly.

## Post- Installation Steps

### Configure the Portal for the Portal Development Kit

The example iViews in the Portal Development Kit connect to a SAP System with the system alias *PDK\_R3\_BACKEND*. For these examples to work properly, you must define a system object for a test SAP System in your system landscape and assign it the aliases:

**PDK\_R3\_BACKEND** to a R/3 system of your custom landscape.  
**PDKDummySystem** to provided system OBN-PDKDummySystem.  
**WebDynpro** to provided system WebDynpro.

According to your authentication policy you have to maintain also Usermapping for these systems.

Additionally **System Landscape Directory SLD** has to be maintained for WebDynpro Examples which need a backend connection. See respective WebDynpro Tutorials for details.

For more information on creating system objects and assigning aliases, see *Enterprise Portal Administration Guide 6.0* → *Portal Platform* → *System Administration* → *System Landscape* → *System Landscape Editor*.

To ensure that you have the correct permissions to run all the applications in the business package, you must be assigned to the following portal roles:

| Role ID                       | Location/ Name  |
|-------------------------------|---|
| Super Administrator           | pcd:portal_content/administrator/super_admin                          |
| Administrator                 | Administrator   |
| com.sap.pct.pdk.JavaDeveloper | pcd:portal_content/com.sap.pct/platform_add_ons/com.sap.pct.pdk/Roles |
| ContentManager (optional)     | pcd:portal_content/specialist/contentmanager                          |
| eu_role (optional)            | pcd:portal_content/every_user/general                                 |

### Create user in SAP System

The example iViews connect to the SAP System using the user with which you are logged on to the portal. You must create a user in the SAP System with the same user ID as your portal user. For details on the authorizations that this user requires, see [Minimum Authorizations for SAP Users \[Seite 8\]](#).

### Restart Server or Iview Runtime Container

This is recommended to invalidate Caches. Alternatively you may release all services.

### Authentication of WebDynpro Content Administrator and SLD

WebDynpro Content Administrator and System Landscape Directory need a SAP WebAS Java Server Administrator authentication. Usually portal administrator are not assigned to the Java Server role "Administrator". In this case provide user and password with the correct permissions for these iviews.



## Minimum Authorizations for SAP Users

Portal users accessing an SAP System via remote function call (RFC) must have a user or be mapped to a user in the SAP System with the following authorizations.

Authorization object *S\_RFC* with the following field values:

*ACTVT*: 16

*RFC\_TYPE*: FUGR

*RFC\_NAME*: RFC1, RSAN, SDIF, SDIFRUNTIME, SDWZ, SKBW, SPR4, SPRT, SRFC, SSCV, SURL, SUSO, SUSW, SU\_USER, SWOR, SYST, SYSU

The following authorization is only necessary for Drag&Relate:

Authorization object *S\_TCODE* with the following field value:

*TCD*: SPO1



## Glossary

### Portal Application

Application that runs in the portal runtime of SAP Enterprise Portal. It can contain a collection of portal components and services.

### Portal Archive file

The distribution format of a portal application.

It is a zip archive (with a PAR extension) with a defined directory structure and contains descriptor files, as well as Java classes and other files (such as html and gif).

### Portal Component

Collection of Java classes and other files that serve to produce the information content of the portal.

The distribution format of a portal component is the Portal Archive file. A portal component can be added to/removed from the portal at runtime.