



# How to Access a Portal Service Within a Web Dynpro Java Application

Based on SAP NetWeaver™ '04 Stack 09

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## Introduction

In addition to portal applications, it is possible to create “portal services” with functionality that can be reused by different applications. On a semantic level, these portal services are very similar to the standard services of the SAP J2EE Engine; but there are several technical differences as well.

It is possible to get access to such portal services within a Web Dynpro Java application. This document describes how to use a portal service within a Web Dynpro Java application on top of SAP NetWeaver™ '04 Stack 09.

## Defining a Reference to a Portal Service

Before you can access a portal service at runtime, the needed reference must be defined. Because a portal service is technically more or less the same thing as a portal application, a sharing reference must be defined for each portal service to be used within a Web Dynpro Java application.

To define a sharing reference, open the “Properties” dialog of your Web Dynpro development component or Web Dynpro Eclipse project (depending on whether you work with the DTR or not).



## Gaining Access to the Portal Service

The following code example demonstrates how to get access to a specific portal service:

```
IUserObjectBasedNavigation obnService
    = (IUserObjectBasedNavigation)
    WDPortalUtils.getServiceReference(IUserObjectBasedNavigation.KEY);
```

In this example, the portal service `IUserObjectBasedNavigation` is accessed from a Web Dynpro application.

If there is no more than one Web Dynpro controller using the same portal service, you should store this portal service reference in a certain context node (for example, in the component controller context, or any other custom controller context) All controllers using this service should gain access to it using context mapping to the specified context node.

## Restrictions

Theoretically, every portal service could be used within a Web Dynpro application. But there are some restrictions:

- The portal service could only be used if the Web Dynpro application and the portal platform (i.e., the portal itself) run on the same machine.

In SAP NetWeaver '04, you have the option whether or not to install the portal platform. The standard SAP NetWeaver Development Workplace (i.e., the standard developer installation), for example, does *not* automatically install the portal platform.

- Even if you use a “full” SAP NetWeaver installation (i.e., the portal platform is installed), keep in mind that you always use the local portal service. If you want to use your Web Dynpro-based portal content within a global or federated portal scenario, there could be problems.

To ensure that you do not use “forbidden” portal services, it is a good idea to contact the developer of the portal service to check for problems (for example, when running in a global portal scenario).