

User Mapping with User ID and Password



Applies to:

SAP NetWeaver Portal, SAP NetWeaver ABAP system.

- For more information, visit the [ABAP homepage](#).
- For more information, visit the [Portal and Collaboration homepage](#).
- For more information, visit the [Security homepage](#)

Summary

This document describes the detailed steps of User Mapping in SAP Portal to the backend SAP ABAP system. User mapping is used for Single Sign-On (SSO) to back-end systems. User mapping maps a portal user ID to the user ID of the back-end system. Administrators can manage the user mapping, or can enable the users to manage their own user mapping for the systems that are defined in the landscape.

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User Mapping using User ID and Password

Prerequisites

Make sure the SAP NetWeaver Application Server (AS) Java is configured to support strong encryption

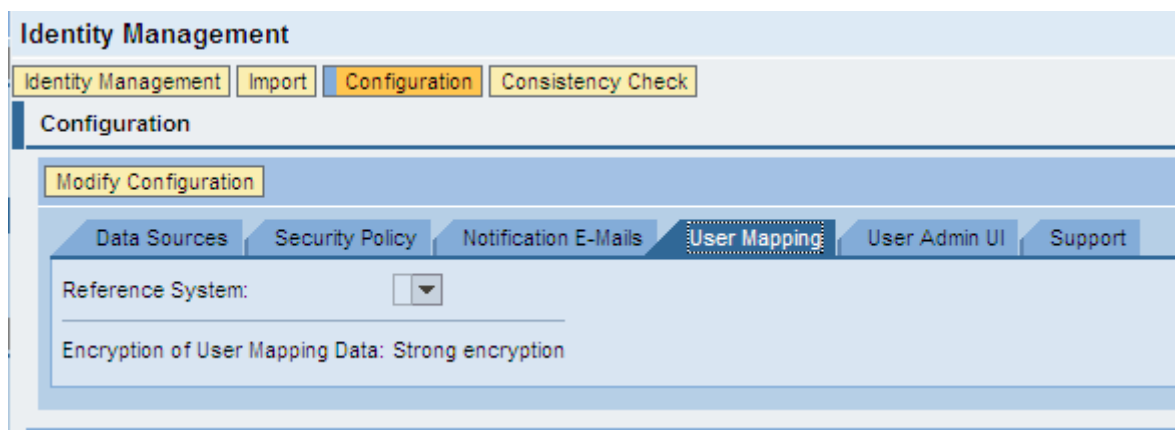
Configuring Strong Encryption for User Mapping

The advantage of Strong encryption is that, for user mapping with User ID and Password, the password is stored in encrypted form. Whereas in Weak encryption, User mapping data is stored with weak encryption (base64 encoded).

If installed SAP NetWeaver Application Server (AS) 7.0 up to SPS 9, you should make sure that strong encryption is used for user mapping data.

Procedure:

1. Start user management configuration.
2. Choose the *User Mapping* tab.
3. Choose *Start Conversion*.
4. This converts all existing user mapping data from weak to strong encryption



Creating Systems

The system needs to be created in Portal in order to connect to the ABAP backend system.

In this example, system is created by using an existing template.

Running the System Landscape Wizard

Procedure:

1. From top-level navigation, choose *System Administration* → *System Configuration* → *System Landscape*.
2. In the Portal Catalog, right-click a folder in which to store the new system and choose either *New* → *System (from template)*
3. Follow the instructions for each screen of the wizard

System Wizard

Step 1: Template Selection

This wizard guides you through the steps required to create a portal system based on an ex and may need refreshing.

Refresh

Choose Template: *

BI JDBC System

BI ODBC-Compliant OLAP System

BI SAP Query System

BI XMLA-Compliant OLAP System

EP 5.0 System

HTTP System

JDBC System

SAP system using connection string

SAP system using dedicated application server

SAP system with load balancing

Web Service System using WSDL URL

Overview
New System (from...

System Wizard

Step 2: General Properties

System Name: *

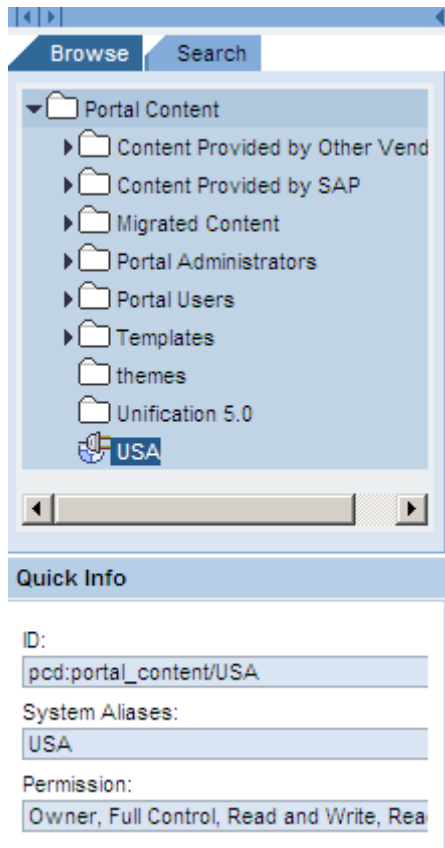
System ID: *

System ID Prefix (Example: com.companyname):

Master Language: *

Description:

4. Click Finish. This system is now part of the portal system landscape and should appear in the System Landscape Overview iView.

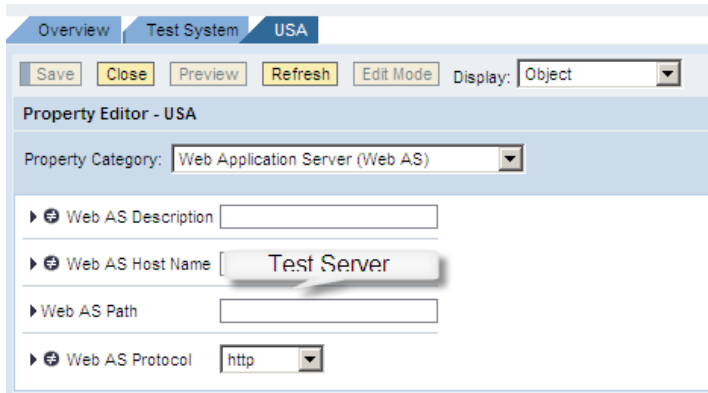


Editing Systems

Once the system is created, and irrespective of the method used, you may need to edit it through the System Landscape Editor.

The related Property Categories for user mapping that needs to be maintained are:

1. Web Application Server details



Overview Test System USA

Save Close Preview Refresh Edit Mode Display: Object

Property Editor - USA

Property Category: Web Application Server (Web AS)

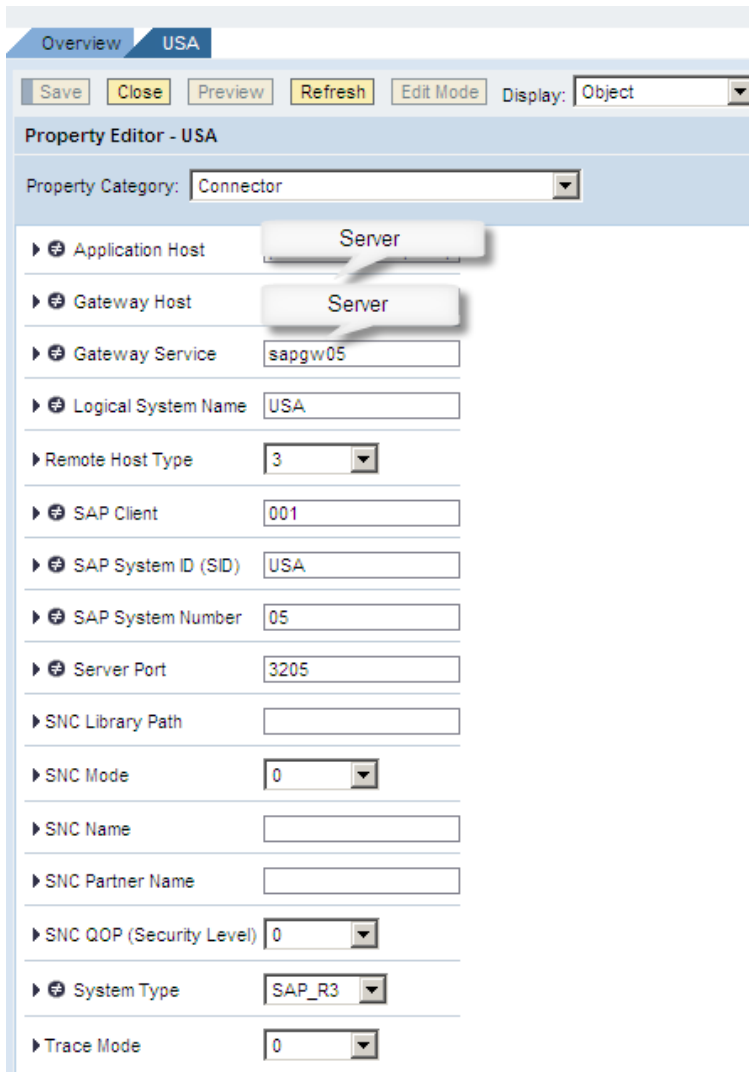
Web AS Description

Web AS Host Name Test Server

Web AS Path

Web AS Protocol http

2. Connection Details of Backend ABAP system



Overview USA

Save Close Preview Refresh Edit Mode Display: Object

Property Editor - USA

Property Category: Connector

Application Host Server

Gateway Host Server

Gateway Service sagw05

Logical System Name USA

Remote Host Type 3

SAP Client 001

SAP System ID (SID) USA

SAP System Number 05

Server Port 3205

SNC Library Path

SNC Mode 0

SNC Name

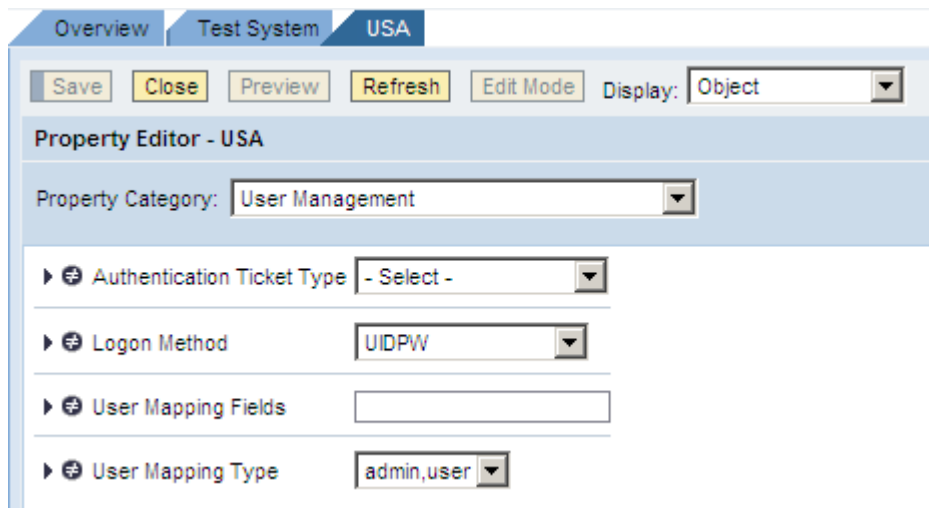
SNC Partner Name

SNC QOP (Security Level) 0

System Type SAP_R3

Trace Mode 0

3. User Administration details



Overview Test System USA

Save Close Preview Refresh Edit Mode Display: Object

Property Editor - USA

Property Category: User Management

▶ Authentication Ticket Type - Select -

▶ Logon Method UIDPW

▶ User Mapping Fields

▶ User Mapping Type admin,user

System Properties for User Mapping

<i>User Mapping Type</i>	<p><code>admin</code> = This system is displayed in the user mapping administrator tool</p> <p><code>user</code> = This system is displayed in the user mapping tool for end users</p> <p><code>admin, user</code> = This system is displayed both in the user mapping administrator tool and in the user mapping tool for end users</p> <p>If this property is not defined for a system, the system does not appear in the user mapping function</p>
<i>Logon Method</i>	<p>Valid values are:</p> <p><code>SAPLOGONTICKET</code> = The system uses the logon ticket for authentication (Default).</p> <p><code>UIDPW</code> = The system uses user ID and password for authentication</p>

Maintaining System Aliases

Aliases are names that system administrators define for each system they create so that portal components can reference these systems

Maintaining a system alias list entails adding new aliases, editing existing aliases, removing aliases, and assigning default alias status to one alias per defined system.

Once a system alias has been created, it is stored in the Portal Content Directory (PCD).

Procedure:

1. From the top-level navigation bar choose, *System Administration* → *System Configuration* → *System Landscape*
2. In the *Portal Catalog*, expand *Portal Content*.
3. From a folder containing systems, right-click a system name and choose, *Open* → *System Aliases*. This opens the *System Alias Editor*
4. To create a new system alias, enter a name in the *Alias* field and click *Add*. The alias name appears in the *Defined Aliases* list. If this is the first alias created, it is automatically defined as the default system alias.

Overview USA

Save Close Preview Refresh Edit Mode Display: System Aliases

System Alias Editor

Create new aliases for this system or delete existing ones. A system alias can be any name you choose. The default al interfaces, such as User Mapping.

Alias Name: Add

Defined Aliases	
Default	Alias Name
<input checked="" type="checkbox"/>	USA
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

Page 1 / 1

Remove Set Default

User Mapping Status: ✓ (Ready for user mapping configuration)

Alias name: USA

5. Save your changes and close the page.

Setting Permissions

Use the Permission Editor to set user access and control permissions to portal components, folders, objects, and security zones in the Portal.

Procedure

1. Under Assign New Permissions, locate the user, role or group that you want to assign permissions to.
2. Add the users, groups, or roles you have located to the *Assigned Permissions* area.

The screenshot shows the 'Permission Editor' interface for the 'USA' region. At the top, there are tabs for 'Overview' and 'USA', and a toolbar with buttons for 'Save', 'Close', 'Preview', 'Refresh', 'Edit Mode', and a 'Display' dropdown set to 'Permissions'. Below this is a message: 'Permissions for this object were modified; the object no longer inherits permissions.' The main area is divided into two sections: 'Assign New Permissions' and 'Assigned Permissions'. The 'Assign New Permissions' section has a search bar and a dropdown set to 'Users' with 'Go' and 'Add' buttons. The 'Assigned Permissions' section has a 'Remove' button and a table with the following data:

	Name	Administrator	End User	Description
<input type="checkbox"/>	Administrator,	Owner	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	super_admin_role	Owner	<input checked="" type="checkbox"/>	Super Administration

At the bottom of the table are navigation icons and the text 'Line 1 / 2'. Below the table are three buttons: 'Permission Source', 'Reset child permissions', and 'Restore Inheritance'.

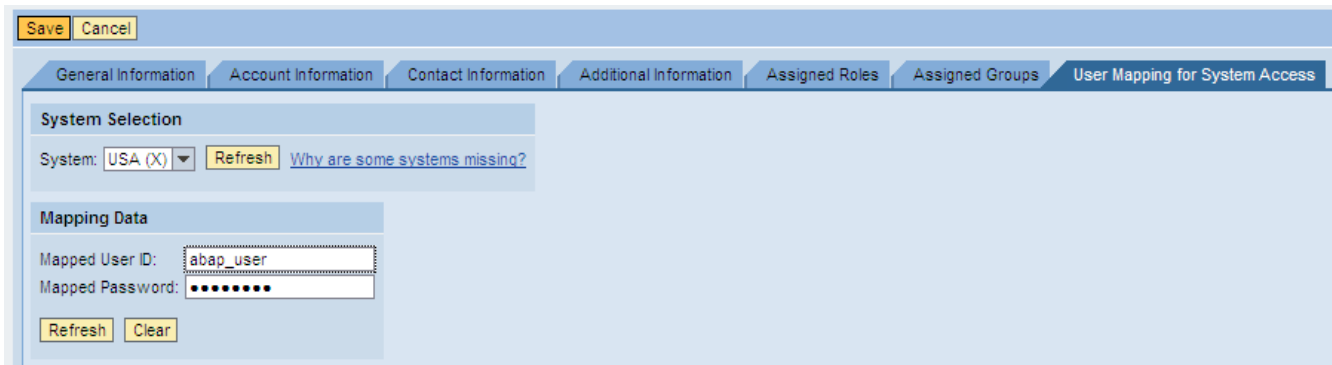
3. Save the entries.

Mapping Users: Administrator Tool

This iView enables administrators to enter mapping data for users, groups, and roles. The administrator enters the credentials of this system user for a group or role and all users assigned to this group or role use the same login data to connect to the system.

Procedure:

1. In the portal, choose *User Administration* → *Identity Management*.
2. Select the user, group, or role that you want to map to a user and Modify
3. Choose the *User Mapping for System Access* tab.
4. In the *System* field, choose the component system for which you wish to map data.
5. Enter the user ID and password to which you want to map the user, group or role



The screenshot shows the 'User Mapping for System Access' tab in the SAP Administrator Tool. At the top, there are 'Save' and 'Cancel' buttons. Below this is a navigation bar with tabs for 'General Information', 'Account Information', 'Contact Information', 'Additional Information', 'Assigned Roles', 'Assigned Groups', and 'User Mapping for System Access'. The 'User Mapping for System Access' tab is active. Underneath, there is a 'System Selection' section with a dropdown menu set to 'USA (X)', a 'Refresh' button, and a link 'Why are some systems missing?'. Below that is a 'Mapping Data' section with two input fields: 'Mapped User ID' containing 'abap_user' and 'Mapped Password' with masked characters. At the bottom of this section are 'Refresh' and 'Clear' buttons.

6. Save entries

Testing the connection to Backend ABAP system via Portal

1. In portal, Navigate to *System Administration* → *Support*.
2. In *Test and Configuration Tools*, select *SAP Transaction*
3. Select *SAP Application*
4. Provide Necessary Values of SAP ABAP system

com.sap.portal.appintegrator.sap.Transaction::Transaction/DragAndRelateLayer

MandatoryParameters	
System	USA
Transaction Code	su01
SAP GUI Type	SAP GUI for Windows

OptionalParameters	
Application Parameters	
DynamicParameter	
AutoStart	No
OkCode	
UseSPO1	No
DebugMode	No

go

5. Now the user will be able to logon to the ABAP backend system based on the Transaction mentioned in the connection integrator, with the USER ID and Password given in the User mapping tab of the User Administration page.

Welcome Administrator,

Content Administration | User Administration | **System Administration**

Transport | Monitoring | Permissions | System Configuration | Portal Display | **Support** | Federated Portal | Navigation

Support Desk

Detailed Navigation

- Support Desk
 - Web Dynpro Test Tools

Users Edit Goto Information Environment System Help

User Maintenance: Initial Screen

User

Alias

Related Content

- SAP Online Help <http://help.sap.com>
- For more information, visit the [Portal and Collaboration homepage](#).
- For more information, visit the [ABAP homepage](#).
- For more information, visit the [Security homepage](#)

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