Configuring ADS for Guided Procedures
## Typographic Conventions

<table>
<thead>
<tr>
<th>Type Style</th>
<th>Represents</th>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example Text</td>
<td>Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation.</td>
<td>!</td>
<td>Caution</td>
</tr>
<tr>
<td>Example text</td>
<td>Emphasized words or phrases in body text, graphic titles, and table titles.</td>
<td></td>
<td>Example</td>
</tr>
<tr>
<td>EXAMPLE TEXT</td>
<td>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.</td>
<td></td>
<td>Note</td>
</tr>
<tr>
<td>Example text</td>
<td>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.</td>
<td></td>
<td>Recommendation</td>
</tr>
<tr>
<td>Example text</td>
<td>Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.</td>
<td></td>
<td>Syntax</td>
</tr>
<tr>
<td>&lt;Example text&gt;</td>
<td>Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXAMPLE TEXT</td>
<td>Keys on the keyboard, for example, F2 or ENTER.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Contents
Scenario.......................................................................................................................... 2
About This Document ........................................................................................................ 2
  General Prerequisites...................................................................................................... 2
  Applicable Releases........................................................................................................ 2
  Disclaimer........................................................................................................................ 2
The Step-By-Step Solution .................................................................................................. 3
  How to Configure a Web Service for Adobe Document Services (ADS) .................. 3
    Prerequisites ................................................................................................................. 3
    Description of the Scenario .......................................................................................... 3
  How to Set Up Basic Authentication for Adobe Document Services (ADS) ............ 10
    Prerequisites ................................................................................................................. 10
    Description of the Scenario .......................................................................................... 10
  How to Install Credentials for Adobe Document Service (ADS) ............................ 16
    Prerequisites ................................................................................................................. 16
    Description of the Scenario .......................................................................................... 16
  How to Configure SLD for Adobe Document Service (ADS) ................................. 20
    Prerequisites ................................................................................................................. 20
    Description of the Scenario .......................................................................................... 20
  How to Test the Adobe Document Service (ADS) ...................................................... 23
    Prerequisites ................................................................................................................. 23
    Description of the Scenario .......................................................................................... 23
Scenario

In Guided Procedures you can use Adobe Interactive Forms to collect data from the processor of a GP action, send information to the contributors of the GP process, and start GP processes.

To use Adobe Interactive Forms you have to configure the Adobe Document Services (ADS).

About This Document

This document describes how to configure Adobe Document Services (ADS) in order to receive and send Adobe interactive forms. For information about creating and using Adobe interactive forms for data collection, see Error! Reference source not found. and Error! Reference source not found.. To perform the general configuration required for the interactive forms, refer to Error! Reference source not found..

General Prerequisites

You have installed SAP NetWeaver 2004s SPS06 or have access to an installed SAP NetWeaver 04s SPS06 server.

Applicable Releases

This tutorial is compatible with the following release” Beginning with SAP NetWeaver ’04s SPS06”.

Disclaimer

Any software coding and/or code lines / strings (“Code”) included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended better explain and visualize the syntax and phrasing rules of certain coding. SAP does not warrant the correctness and completeness of the Code given herein, and SAP shall not be liable for errors or damages caused by the usage of the Code, except if such damages were caused by SAP intentionally or grossly negligent.
The Step-By-Step Solution

How to Configure a Web Service for Adobe Document Services (ADS)

Prerequisites
You have installed SAP NetWeaver 04s SPS06 including ADS or have access to the SAP NetWeaver 2004s SPS06 server.

Description of the Scenario

1. Start the Visual Administrator. Create a new connection to your server if needed.
   Note that the SAP NetWeaver 2004s SPS06 server should be started before you start the Visual Administrator.

2. Click Connect.
3. Enter your password and click Connect again.

4. Select the Cluster tab if needed and expand your server node. Also expand the Services node.

5. Select Security Provider.
6. Select the User Management tab and switch to edit mode by clicking on the toolbar.

7. Click Create Group if group ADSCallers does not exist. You can check whether it exists by choosing the Groups tab, entering its name in the Name field, and clicking Search. If the group exists, it is listed in the field below the Search button.
8. Enter ADSCallers for the **Group name** and click OK.

9. Click **Create User** if user ADSUser does not exist. You can check whether it exists by choosing the **Users** tab, entering the user name in field **Name**, and clicking **Search**. If the user exists, it is listed in the field below the **Search** button.

10. Enter ADSUser for the **User name** and specify a password in fields **Password** and **Confirm password**.
11. Choose the **Tree** tab instead of the **Search** tab on the right side. Select **ADSCallers** in the **User Tree** and click **OK**.

12. Choose the **Tree** tab on the right side. Select and expand node **ADSCallers** and select **ADSUser**.
13. In the Authentication area, mark the No password change required checkbox.
14. Switch from the **User Management** tab to **Policy Configurations**. Select `com.adobe/AdobeDocumentServices*AdobeDocumentServicesAssembly.jar` in the **Components** list.

15. Choose the **Security Roles** tab. Select **ADSCaller** in the list. In the **Mappings** area, click the **Add** button assigned to the **Users** list.

Choose the **Tree** tab. Select node **ADSCaller** under node **ADSCallers**. Click **OK**.

Add group **ADSCallers** to the **Groups**
How to Set Up Basic Authentication for Adobe Document Services (ADS)

Prerequisites

Before setting up the authentication for the ADS, you have to perform the steps described in section 4.1.

Description of the Scenario

1. Start the **Visual Administrator**. Create a new connection to your server if needed.

   ![Visual Administrator](image)

   Note that the SAP NetWeaver 2004s SPS06 server should be started before you start the Visual Administrator.

   If you already logged on, you can skip steps 1-4.
2. Click Connect.

3. Enter your password and click Connect again.

4. Select the Cluster tab if needed and expand your server node. Also expand the Services node.
5. Select **Web Services Security**.

7. In the Authentication dropdown list select BASIC. In the Username and Password fields enter the user name and password of ADSUser.

8. Click Save.
9. (Optional) Switch URL Destination from Custom to SLD, scroll down the screen, and enter the following information:

**System Name:**
<SID>.SystemHome.<MachineHost>

**WS Name:**
{com.adobe/AdobeDocumentServices}[AdobeDocumentServicesAssembly.jar][AdobeDocumentServices]

**WS Port:**

(Note: See also section 4 - 4 for the configuration of the SLD Data Provider Service)

10. To activate the changes, navigate to node Services → Deploy.

Mark the Application radio button at the bottom of the Runtime tab.
11. Select sap.com/tc~wd~pdfobject from the list of Deployed Components. Click Stop Application.

12. Click OK.

13. Wait for the pdfobject application to terminate and click Start Application.
14. Click OK.

How to Install Credentials for Adobe Document Service (ADS)

Prerequisites
Before installing credentials you have to perform the steps described in sections 4.1 and 4.2.

To perform step 8 described here you need a credential file.

(Note: Also see the ADS documentation for further details.)

Description of the Scenario

1. Start the Visual Administrator. Create a new connection to your server if needed.

   Note that the SAP NetWeaver 2004s SPS06 server should be started before you start the Visual Administrator.

   If you already logged on, you can skip steps 1-4.
2. Click Connect.

3. Enter your password and click Connect again.

4. Choose the Cluster tab if needed and expand your server node. Also expand the Services node.
5. Select **Document Services Configuration**.

6. Choose the **Runtime** tab and, if needed, the **Credentials** tab.

7. Enter the following:
   - **Type**: P12 Record
   - **Alias**: ReaderRights
   - **Password**: ^H@wAi1*
   - **Confirm Password**: ^H@wAi1*
8. Click **Browse**, select your credential file and click **Select**.

9. Click **Add**.

10. To apply the changes, restart the **PDF Manipulation module** service. To do so, navigate to this service in the Visual Administrator and right-click its entry. Choose **Stop** from the context menu. When the service has stopped, re-open the context menu and choose **Start** to restart the service.
If you got the following error message while using Adobe Interactive Forms, try to reinstall your credentials by deleting it and repeating the previous steps. Then try to restart the server.

Note that there is some delay in the activation of the credentials after changing them.

### Error Summary

While processing the current request, an exception occurred which could not be handled by the application or the framework.

If the information contained on this page doesn't help you to find and correct the cause of the problem, please contact your system administrator. To facilitate analysis of the problem, keep a copy of this error page. Hint: Most browsers allow to select all content, copy it and then paste it into an email document (e.g., small or simple text file).

### Root Cause

The initial exception that caused the request to fail was:

java.lang.RuntimeException

at com.sap.b.wb.webDynpro.application.server.ClientApplication.runClientApplication(state: 1525)
at com.sap.b.wb.webDynpro.application.server.ClientApplication.runClientApplication(state: 1599)
... 25 more

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### How to Configure SLD for Adobe Document Service (ADS)

#### Prerequisites

Before installing credentials you have to perform the steps described in sections 4.1, 4.2, and 4.3.

#### Description of the Scenario

1. Start the **Visual Administrator**. Create a new connection to your server if needed.

   Note that the SAP NetWeaver 2004s SPS06 server should be started before you start the Visual Administrator.

   If you already logged on, you can skip steps 1-4.
2. Click Connect.

3. Enter your password and click Connect again.

4. Choose the Cluster tab if needed and expand your server node. Also expand the Services node.
5. Select SLD Data Supplier.

6. Navigate to tabs Runtime → HTTP Settings.

If you installed a local SLD, enter the local SLD host, port, user name and password. Otherwise enter the remote SLD host, port, user name and password.

This example uses a remote SLD:

<table>
<thead>
<tr>
<th>Host</th>
<th>sdlmain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>53000</td>
</tr>
<tr>
<td>User</td>
<td>supplier</td>
</tr>
<tr>
<td>Password</td>
<td>***</td>
</tr>
</tbody>
</table>

Click Save.

7. Navigate to tabs Runtime → CIM Client Generation Settings.

Enter the SLD settings you used previously. You can use a different user for the client generation.

| HTTP Connection Parameters | sdlmain | 53000 | dummy | ****** |

Click Save to save your settings.
8. Click **CIMClient Test** to test your settings.
If your connection parameters are correct, you will receive the message shown in the screenshot. Click **OK**.

How to Test the Adobe Document Service (ADS)

Prerequisites
You performed the steps described in sections 4.1, 4.2, and 4.3. (Note: Also see the ADS documentation for further details.)

Description of the Scenario

1. Open the start page of the J2EE Engine and click the **Web Services Navigator** link.

3. Click Test.
4. Click the **rpData** line in the **Operations** list.

5. Click **Send**.

6. Enter the name and password of the **ADS** user and click **Submit**.
7. If your test is successful, you get the response shown in the screenshot.

If the error message shown in the following screenshot is displayed, check if the **No password change required** checkbox is still marked in the **Security Provider** service. See step 13 in section 0.