

ator

sis activity

## ADS Configuration in Netweaver 7.4

Posted on June 1, 2017 by SAP Basis Admin

### Use

Adobe Document Services (ADS) are an SAP NetWeaver solution extension included in the SAP NetWeaver usage type Application Server (AS) Java. To process forms in an ABAP environment, the ABAP transaction dynpros or Web Dynpro ABAP applications call the ADS. The generation of forms is based on form templates designed with Adobe LiveCycle Designer and business data provided by the applications.

Once installed on the AS Java, the ADS need to be configured in order to be available for form processing.

### Communication Between AS ABAP and ADS

The ADS can run either on the same server as the ABAP applications or on a separate server. The ADS can also be installed on the AS Java as a central component – an ADS hub – which can operate with different ABAP systems. The graphic below shows the communication paths between the components on the AS ABAP and the ADS installed on the AS Java.



- 1) Basic Authentication
- 2) SSL Authentication.

Here, I am discussing ADS Configuration using Basic Authentication for interactive Adobe Forms.

### **Prerequisites–**

- 1) SAP Netweaver 7.3 As Java System (ADS should be installed).
- 2) SAP Business Suite 7 System

### **Profile Parameters–**

- 1) Profile Parameter SAPFQDN should be set in both As Java and As ABAP system.

### **Process–**

#### **1. Users creation**

#### **If UME on AS Java**

In Identity Management <http://hostname:port/useradmin> (<http://hostname:port/>).

- Add action “AdobeDocumentServices (ADSCaller)” to role SAP\_ADSCALLER
- Create ADSCALLERS group and assign role SAP\_ADSCALLER
- Create ADSUSER, select Security Policy “Technical User” and assign group ADSCALLERS

Log on to the AS ABAP with an admin user, in the client that is used for the ADS configuration and go to transaction SU01:

- Create user ADSUSER and select user type “System”
- Create user ADS\_AGENT, select user type “System” and assign roles SAP\_BC\_FP\_ICF,SAP\_BC\_FPADS\_ICF and SAP\_BC\_JSF\_COMMUNICATION

Important: profile of these roles must be generated.

Go to transaction PFCCG:

Create a role ADSCALLERS (no authorizations required) and assign user ADSUSER to it.

#### **If UME on AS ABAP**

Log on to the AS ABAP with an admin user, in the client that is used for the UME authentication and go to transaction SU01:

- Create user ADSUSER and select user type “System”
- Create user ADS\_AGENT, select user type “System” and assign roles SAP\_BC\_FP\_ICF, SAP\_BC\_FPADS\_ICF and SAP\_BC\_JSF\_COMMUNICATION

Important: profile of these roles must be generated.

Go to transaction PFCG:

Create a role ADSCALLERS (no authorizations required) and assign user ADSUSER to it.



In Identity Management <http://hostname:port/useradmin> (<http://hostname:port/>).

- Add action “AdobeDocumentServices (ADSCaller)” to role SAP\_ADSCALLER
- Add ADSUSER to role SAP\_ADSCALLER
- Make sure that the ADSUSER is “Technical User” and added to group ADSCALLERS

## 2. AS Java configuration

### 2.1 Web service destination

Start the SAP NetWeaver Administrator via the address <http://hostname:port/nwa> (<http://hostname:port/>).

Choose SOA  [Next navigation step](https://help.sap.com/static/saphelp_nw73/en/DITAgraphics/navstep.gif) ([https://help.sap.com/static/saphelp\\_nw73/en/DITAgraphics/navstep.gif](https://help.sap.com/static/saphelp_nw73/en/DITAgraphics/navstep.gif)), Technical Configuration  [Next navigation step](https://help.sap.com/static/saphelp_nw73/en/DITAgraphics/navstep.gif) ([https://help.sap.com/static/saphelp\\_nw73/en/DITAgraphics/navstep.gif](https://help.sap.com/static/saphelp_nw73/en/DITAgraphics/navstep.gif)), Destination Template Management

Choose New

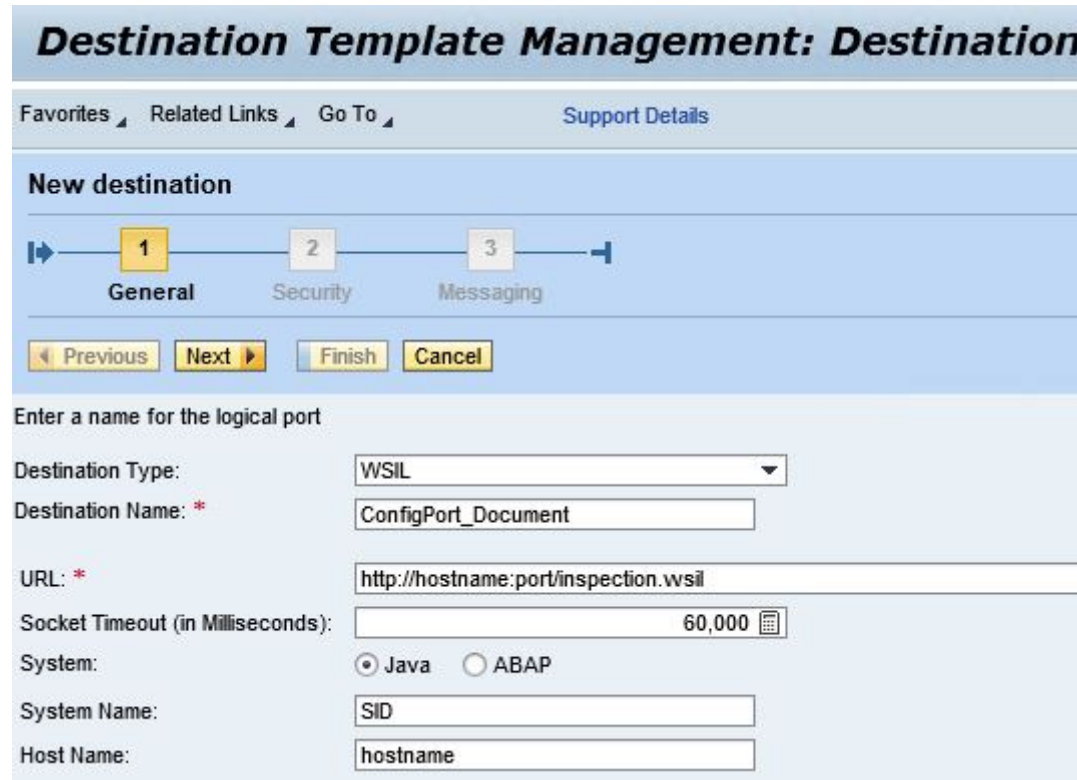


Choose Destination Type **WSIL**

Enter **ConfigPort\_Document** as Destination Name

Enter URL **http://hostname:port/inspection.wsil (http://hostname:port/)** (*hostname* is the AS Java hostname in which the Adobe Document Services are installed and *port* is the HTTP port of the AS Java)

Choose Next



The screenshot shows the 'Destination Template Management: Destination' window. At the top, there are tabs for 'Favorites', 'Related Links', 'Go To', and 'Support Details'. Below this is a 'New destination' section with a progress bar showing three steps: '1 General' (highlighted), '2 Security', and '3 Messaging'. Below the progress bar are buttons for 'Previous', 'Next', 'Finish', and 'Cancel'. The main form area is titled 'Enter a name for the logical port' and contains the following fields:

- Destination Type: A dropdown menu with 'WSIL' selected.
- Destination Name: A text field containing 'ConfigPort\_Document'.
- URL: A text field containing 'http://hostname:port/inspection.wsil'.
- Socket Timeout (in Milliseconds): A text field containing '60,000' with a calculator icon.
- System: Radio buttons for 'Java' (selected) and 'ABAP'.
- System Name: A text field containing 'SID'.
- Host Name: A text field containing 'hostname'.

Choose Authentication **HTTP Authentication** and select **UserID/Password (Basic)**

Enter User ID **adsuser** (with the password that you created)

Then choose Finish to saveNow, destination ConfigPort\_Document will be created.

## Destination Template Management: Destination Templates

[Favorites](#) | [Related Links](#) | [Go To](#) | [Support Details](#)

### New destination

1 2 3
  
 General Security Messaging

[Previous](#) [Next](#) [Finish](#) [Cancel](#)

#### Authentication

Authentication: HTTP Authentication

☒ User ID/Password (Basic)  
☐ User ID/Password (Digest)  
☐ X.509 Client Certificate  
☐ Logon Ticket  
☐ SAML Assertion

[Details Off](#)

#### SSL Server Certificates

☐ Accept Certificates in Keystore View WebServiceSecurity  
☒ Ignore server certificates (insecure)

#### Details

**User ID/Password**

User ID:

Password:

Confirm Password:

#### Message Security

☐ Use WS-Secure Conversation (Version: February 2005)

##### Outgoing Request

☐ Add Encryption  
☐ Add Signature

##### Incoming Response

☐ Require Encryption  
☐ Require Signature

[Details](#)

Note: If you are configuring Interactive Adobe Forms then first request SAP to provide Adobe Interactive form credentials and \*.pfx file which you need to configure Reader Right credentials. In order to obtain Reader Right credentials then please follow SAP note 736902.

3) In order to install Reader Right credentials, go to nwa ([http://<server>\(http://<server>\);:<port>/nwa](http://<server>(http://<server>);:<port>/nwa)).

Go to Configuration → Infrastructure → Adobe Document Services







Powered by wordads.co Powered by wordads.co

Seen ad many times Seen ad many times

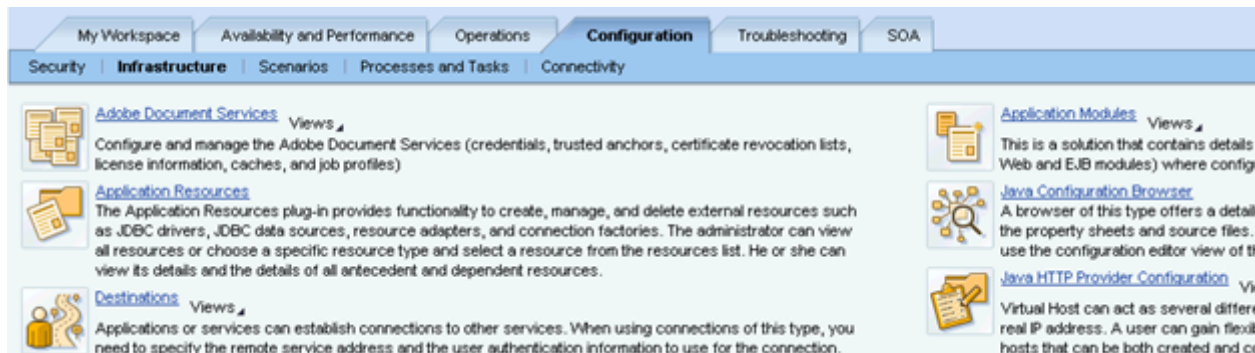
Not relevant Not relevant

Offensive Offensive

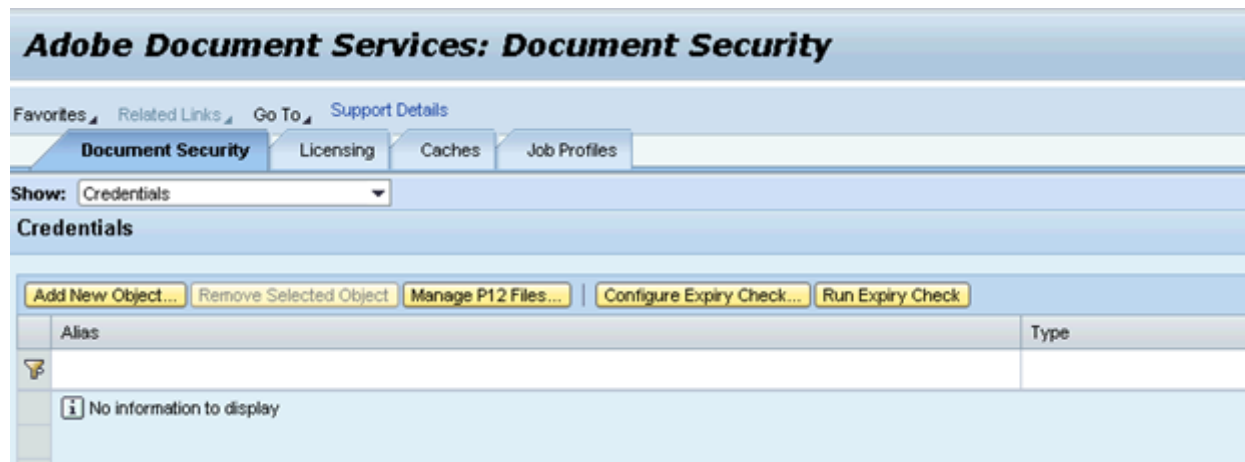
Covers content Covers content

Broken Broken

REPORT THIS AD REPORT THIS AD



Choose Document Security and then select Credentials.



Click on Manage P12 Files. A Pop-up will be open where you need to provide path of \*.pfx file that you got from SAP.

Choose Upload. Now, your \*.pfx file will be uploaded.

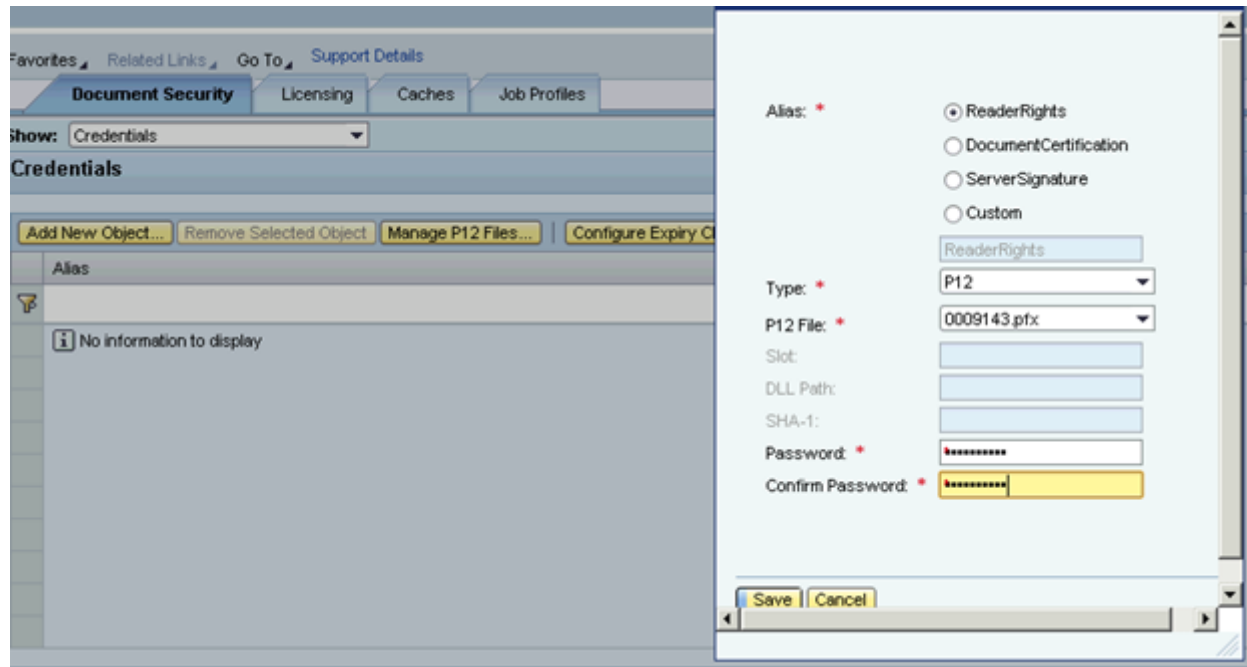
Click on Add New Object and a pop-up will be opened.

In Alias, Select Reader Rights

Type should be P12.

P12 File should be automatically filled as we have already uploaded the file in previous step.

Enter Password for P12 file.







Seen ad many times      Seen ad many times

Not relevant      Not relevant

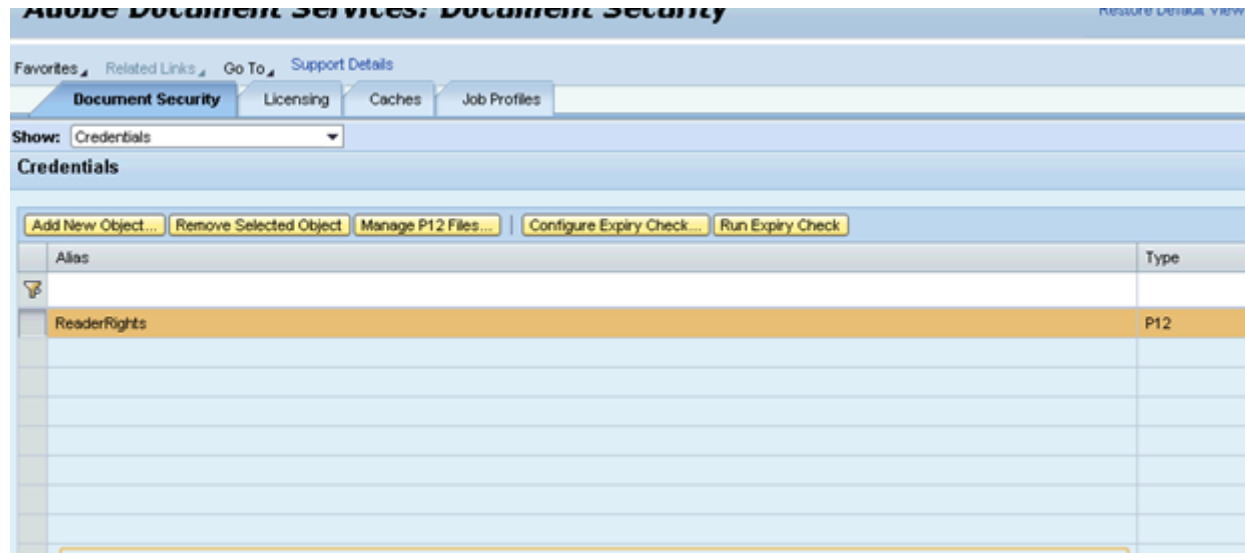
Offensive      Offensive

Covers content      Covers content

Broken      Broken

REPORT THIS AD      REPORT THIS AD












Save this record



5) Restart the service Document Service Trust Manager Service and then the service PDF Manipulation Module for the changes to take effect.



In order to restart the service, go to Operations → Systems → Start & Stop.

Open Java Services Tab. In order to obtain list of services for ADS, filter the Service component Name column by Adobe. Restart the service

Start & Stop: Java Services			Restore Default View
<a href="#">Favorites</a>   <a href="#">Related Links</a>   <a href="#">Go To</a>   <a href="#">Support Details</a>			
<a href="#">Java Instances</a>   <b><a href="#">Java Services</a></b>   <a href="#">Java Applications</a>			
Services			
<a href="#">Start</a>   <a href="#">Stop</a>   <a href="#">Restart</a>   <a href="#">More Actions</a>			
Name	Service Component Name	Status	
	adobe		
Document Services Binaries 2	com.adobe.com.adobe-DocumentServicesBinaries2	 Started	
Document Services Configuration	com.adobe.com.adobe-DocumentServicesConfiguration	 Started	
Document Services Data Manager	com.adobe.com.adobe-DataManagerService	 Started	
Document Services DestProto Service	com.adobe.com.adobe-DocumentServicesDestProtoService	 Started	
Document Services Font Manager	com.adobe.com.adobe-FontManagerService	 Started	
Document Services License Service	com.adobe.com.adobe-LicenseService	 Started	
Document Services License Support Service	com.adobe.com.adobe-DocumentServicesLicenseSupportService	 Started	
Document Services Trust Manager Service	com.adobe.com.adobe-TrustManagerService	 Started	
PDF Manipulation Module - Low Encryption	com.adobe.com.adobe-PDFManipulation	 Started	
XML Form Module	com.adobe.com.adobe-XMLFormService	 Started	

## 2.2 HTTP destination

Start the SAP NetWeaver Administrator via the address <http://hostname:port/nwa> (<http://hostname:port/>).

Choose SOA  Next navigation step ([https://help.sap.com/static/saphelp\\_nw73/en/DITAgraphics/navstep.gif](https://help.sap.com/static/saphelp_nw73/en/DITAgraphics/navstep.gif)). Technical Configuration  Next navigation step ([https://help.sap.com/static/saphelp\\_nw73/en/DITAgraphics/navstep.gif](https://help.sap.com/static/saphelp_nw73/en/DITAgraphics/navstep.gif)). Destinations

[My Workspace](#) | [Availability and Performance](#) | [Operations](#) | [Configuration](#) | [Troubleshooting](#) | **SOA**

[Technical Configuration](#) | [Application and Scenario Communication](#) | [Logs and Traces](#) | [Monitoring](#)

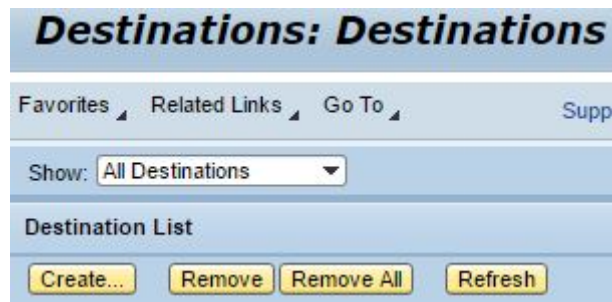

[Destination Template Management](#) Views
 

Manage templates for the configuration of Java Web service consumers implemented before SAP NetWeaver 7.1 Enhancement Pack 7.11.


[Destinations](#) Views
 

Applications or services can establish connections to other services. When using connections of this type, you need to specify the address and the user authentication information to use for the connection. Many applications use the Destination service for this purpose.

Choose Create...



**Destinations: Destinations**

[Favorites](#)
[Related Links](#)
[Go To](#)
[Support](#)

Show:

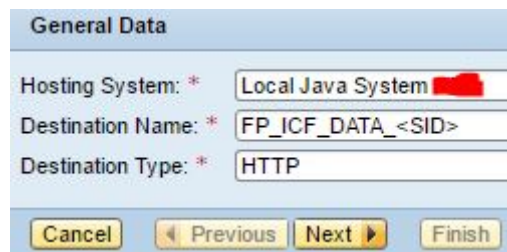
**Destination List**

[Create...](#)
[Remove](#)
[Remove All](#)
[Refresh](#)

Enter **FP\_ICF\_DATA\_<SID>** as Destination Name (<SID> is the AS ABAP SID)

Choose Destination Type **HTTP**

Choose Next



**General Data**

Hosting System: \*

Destination Name: \*

Destination Type: \*

[Cancel](#)
[Previous](#)
[Next](#)
[Finish](#)

Enter URL **http://ABAPhostname:port (http://hostnameport/)** (*ABAPhostname* is the AS ABAP hostname)

Enter the SID and productive client of your AS ABAP system



Connection Information

URL:

Additional Settings for SAP Systems

System ID:

Client:

Language:

SSL Server Certificates

☒ Ignore SSL Server Certificates

Trusted Server Certificates Keystore View:

Choose Authentication **Basic (User ID and Password)**  
Enter User Name **ads\_agent** (with the password that you created)  
Then choose Finish to save

HTTP Destination FP\_ICF\_DATA\_<SID>

General Data      Connection and Transport Security

Logon Data

Authentication:

Basic Authentication

User Name:

Password:

## 2.3 Reader Rights Credential

If you want to create interactive forms, you need a Reader Rights Credential (usage rights credential). For more information please follow this link: [Applying a Reader Rights Credential to PDF Forms – Configuring Adobe Document Services for Form Processing \(ABAP\) – SAP ... \(https://help.sap.com/saphelp\\_nw73/helpdata/en/4b/95ae5426f26e83e10000000a421937/content.htm\)](https://help.sap.com/saphelp_nw73/helpdata/en/4b/95ae5426f26e83e10000000a421937/content.htm).

### 3. AS ABAP configuration

#### 3.1 RFC

Call transaction SM59  Next navigation step  [\(https://help.sap.com/static/saphelp\\_nw73/en/DITAgraphics/navstep.gif\)](https://help.sap.com/static/saphelp_nw73/en/DITAgraphics/navstep.gif). Choose Create

Enter at least the following:

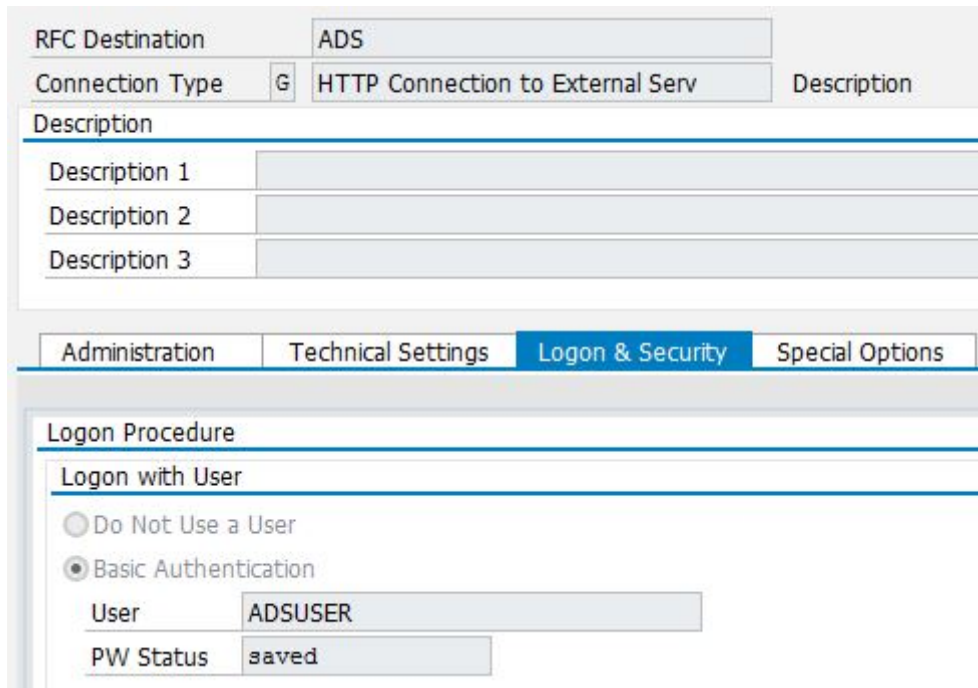
- RFC destination: **ADS**
- Connection type: **G**
- Target Host: Enter the host name of the J2EE Engine that runs the Adobe document services or of the SAP Web dispatcher if applicable
- Service No.: Enter the HTTP port number of the Target Host you have specified (The following naming convention applies:  
5<J2EE\_instance\_number>00 (50000, for example, if your J2EE instance is 00)
- Path Prefix: **/AdobeDocumentServices/Config?style=rpc**

RFC Destination	ADS		
Connection Type	G	HTTP Connection to External Serv	Description
Description			
Description 1			
Description 2			
Description 3			
Administration <b>Technical Settings</b> Logon & Security   Special Options			
Target System Settings			
Target Host	<div></div>		Service No.   511...
Path Prefix	/AdobeDocumentServices/Config?style=rpc		

Choose the Logon/Security tab, select Basic Authentication

In the User and Password boxes, enter the user name ADSUSER and the password


Save your settings



The screenshot shows the SAP configuration interface for an RFC Destination. The 'RFC Destination' field is set to 'ADS'. The 'Connection Type' is 'G' (HTTP Connection to External Serv). Below this, there are three empty fields for 'Description 1', 'Description 2', and 'Description 3'. At the bottom, there are four tabs: 'Administration', 'Technical Settings', 'Logon & Security' (which is selected), and 'Special Options'. Under the 'Logon & Security' tab, the 'Logon Procedure' is set to 'Logon with User'. There are two radio buttons: 'Do Not Use a User' (unselected) and 'Basic Authentication' (selected). Below the radio buttons, the 'User' field is set to 'ADSUSER' and the 'PW Status' is set to 'saved'.

RFC Destination	ADS		
Connection Type	G	HTTP Connection to External Serv	Description
Description			
Description 1			
Description 2			
Description 3			
Administration Technical Settings Logon & Security Special Options			
Logon Procedure			
Logon with User			
<input type="radio"/> Do Not Use a User			
<input checked="" type="radio"/> Basic Authentication			
User	ADSUSER		
PW Status	saved		

### 3.2 Activating the ICF services

Call transaction SICF  Next navigation step ([https://help.sap.com/static/saphelp\\_nw73/en/DITAgraphics/navstep.gif](https://help.sap.com/static/saphelp_nw73/en/DITAgraphics/navstep.gif)). Activate the following services:

default\_host → sap → bc → fp

default\_host → sap → bc → fpads

### 4. Configuration check and Troubleshooting

Call transaction SA38 and execute the program FP\_TEST\_00.

If the FP\_TEST\_00 form is displayed in the print preview, the ADS configuration is correct.

Call transaction SA38 and execute the program FP\_PDF\_TEST\_00.

This enables you to check the RFC connection to ADS.

If the system displays the version number of ADS, the configuration of the RFC connection is correct.

Call transaction SA38 and execute the program FP\_CHECK\_DESTINATION\_SERVICE without and with selecting the option "With Destination Service".

If the file size of the generated PDF is displayed the ADS configuration is correct.

If you get this error message:

SYSTEM ERROR: ADS: com.adobe.ProcessingException: com.adobe.ProcessingException: XMLFM Exception during render: com.adobe.ProcessingException(200.101).

Exception of class CX\_FP\_RUNTIME\_INTERNAL please follow this link: [ADS configuration error FP\\_CHECK\\_DESTINATION\\_SERVICE fails \(http://scn.sap.com/thread/3948998\)](http://scn.sap.com/thread/3948998).

If one of these reports does not work please refer to [SAP Note 944221 \(https://launchpad.support.sap.com/#/notes/944221\)](https://launchpad.support.sap.com/#/notes/944221) for Adobe Document Services troubleshooting.



Powered by wordads.co Powered by wordads.co

Seen ad many times Seen ad many times

Not relevant Not relevant

Offensive Offensive

Covers content Covers content

Covers content

Covers content

Broken

Broken

REPORT THIS AD

REPORT THIS AD

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