Sunny Pahuja

January 4, 2012   5 minute read

ADS Configuration in Netweaver 7.3

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Let's Begin- There are 2 types of ADS Configuration-

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—

AS Java (Netweaver 7.3)

1) If UME is on As Java

    a) Create ADSUSER as a Technical User in Identity management if it does not exist.

    b) Create ADSCALLERS group in Identity Management.

    c) Assign UME Role SAP_ADSCALLER (You need to assign this role only to users who need to access ADS). In my case, I assigned this role to the ADSCALLERS group in identity management.

    d) Assign ADSCALLERS group to ADSUSER in identitiy management.
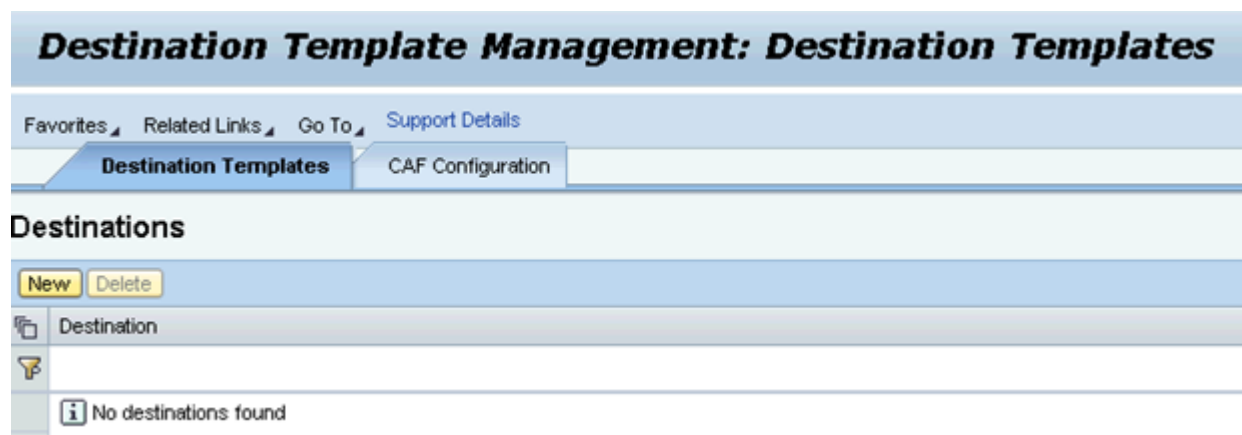
2) If UME of As Java is running on As ABAP system

    a) Create ADSUSER in As ABAP.

    b) Create ADSCALLERS role in PFCG and don't assign any authorization to it.

    c) Assign ADSCALLERS role to ADSUSER.

    d) Go to Identity Management of As Java, there search for role SAP_ADSCALLER and add user ADSUSER to it. Go to assigned Action Tab and search for adobe in available actions and add action **AdobeDocumentServicesADSCaller** to role and save it.

3) Go to SAP netweaver administrator (http://<server>:<port>/nwa).

Then Go to SOA. Under SOA, go to Technical Configuration –> Destination Template Management

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 Package 1.

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

JCo RFC Provider
The JCo RFC Provider Service processes ABAP to Java requests, and dispatches the calls to Java applications. Seen from an ABAP system, it provides an RFC destination. Technically, the service is based on the JCo (SAP Java Connector). To receive calls from ABAP, JCo servers are started and registered at the gateways of the ABAP systems. The configuration of these JCo servers is done here.

Choose Create New Destination

Destination Template Management: Destination Templates

Favorites ▾   Related Links ▾   Go To ▾   Support Details

Destination Templates   CAF Configuration

Destinations

New   Delete

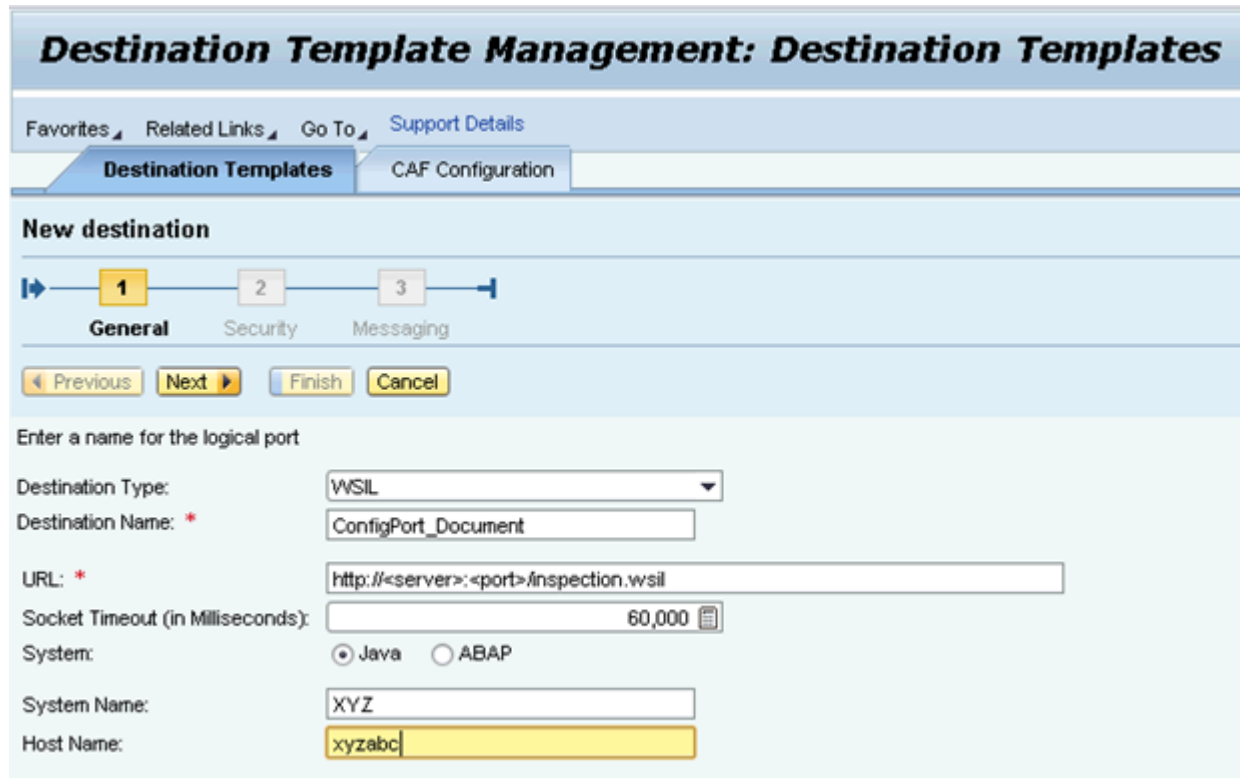|	Destination
▽	
	ⓘ No destinations found

Choose Destination Type as WSIL and enter Destination name as **ConfigPort_Document**

Enter URL as below:

http://\<server>:\<port>/inspection.wsil

Enter System name: \<SID of As Java> and hostname: \<hostname of As Java>

Destination Template Management: Destination Templates

Favorites   Related Links   Go To   Support Details

Destination Templates   CAF Configuration

New destination

| 1 | 2 | 3 |
| General | Security | Messaging |

◀ Previous   Next ▶   Finish   Cancel

Enter a name for the logical port

Destination Type:	WSIL
Destination Name: *	ConfigPort_Document
URL: *	http://\<server>:\<port>/inspection.wsil
Socket Timeout (in Milliseconds):	60,000
System:	⊙ Java ○ ABAP
System Name:	XYZ
Host Name:	xyzabc

On next screen, Choose Authentication as HTTP Authentication and Select User ID/Password (Basic). Enter ADSUSER and password as shown below:

Destination Template Management: Destination Templates

Favorites   Related Links   Go To   Support Details

| Destination Templates | CAF Configuration |

New destination

1 General — 2 Security — 3 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

Details

User ID/Password   ⊟

User ID: adsuser
Password: •••••••••
Confirm Password: •••••••••

SSL Server Certificates

◉ Ignore Server Certificates
○ Accept Certificates in Keystore View CTCView

Message Security

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

Outgoing Request   **Incoming Response**

☐ Add Encryption   ☐ Require Encryption
☐ Add Signature   ☐ Require Signature

Details

Then click on finish. Now, destination ConfigPort_Document will be created.

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.

4) In order to install Reader Right credentials, go to nwa (http://<server>:<port>/nwa).

Go to Configuration –> Infrastructure –> Adobe Document Services
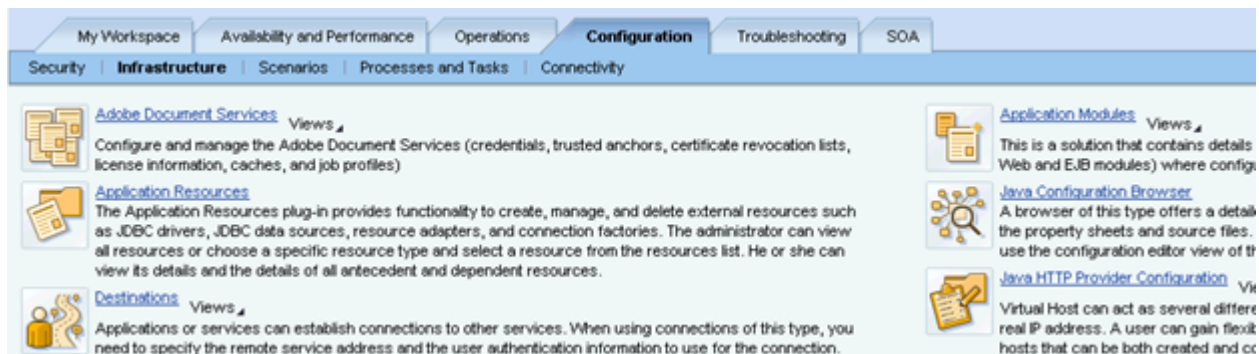
Choose Document Security and then select Credentials.
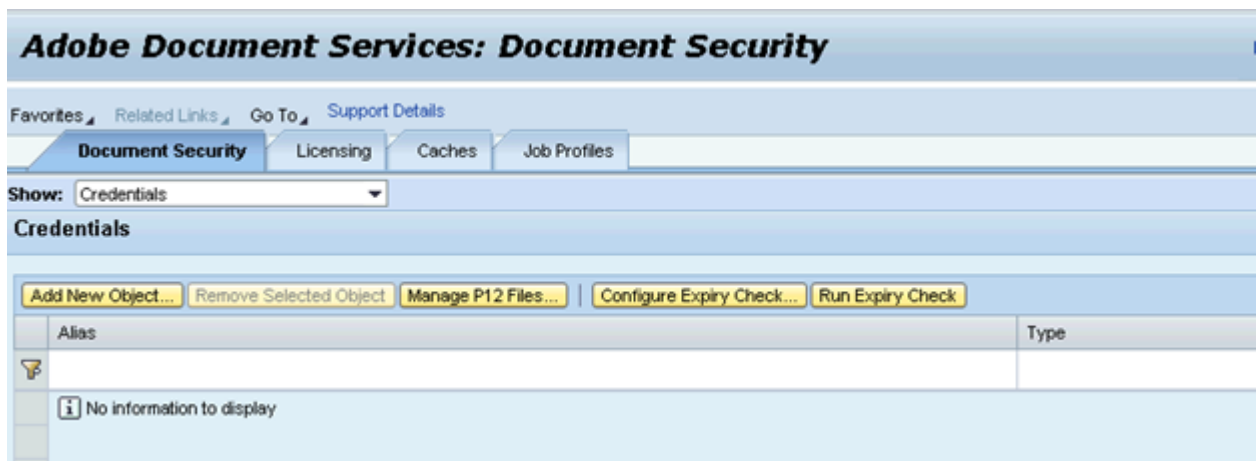
Click on Manage P12 Files. A Pop-up will be open where you need to provide path of *.pfx file that you got from SAP.

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.

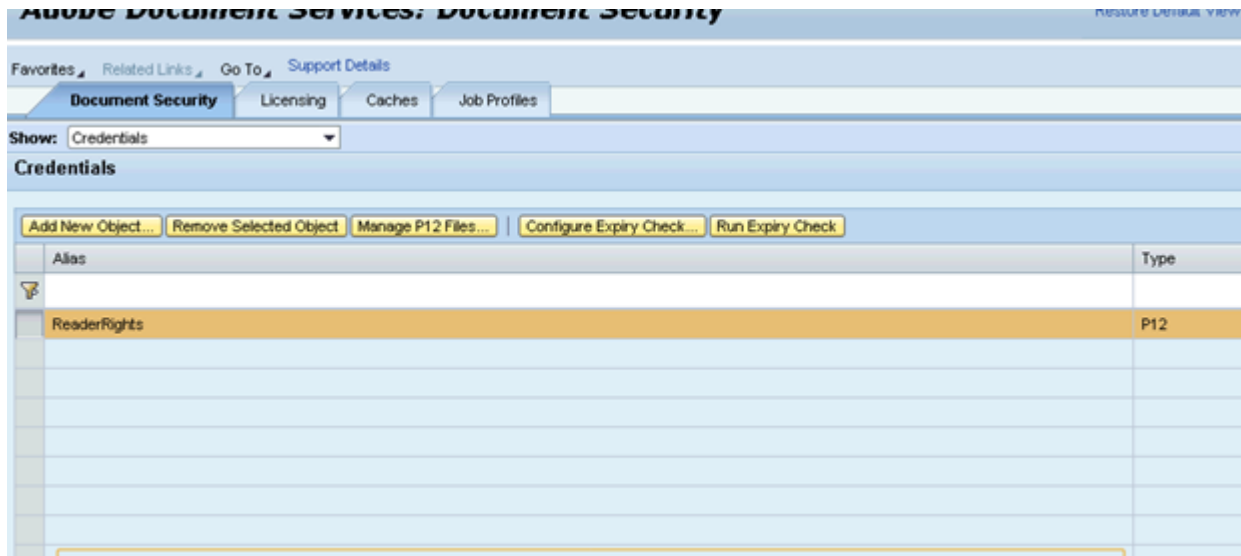P12 File should be automatically filled as we have already uploaded the file in previous step.

Enter Password for P12 file.

Save this record.

Favorites   Related Links   Go To   Support Details

| Document Security | Licensing | Caches | Job Profiles |

Show: Credentials

Credentials

| Add New Object... | Remove Selected Object | Manage P12 Files... | | Configure Expiry Check... | Run Expiry Check |

	Alias	Type
	ReaderRights	P12

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.

6) Create Destination FP_ICF_DATA_<SID of As ABAP> in SOA.

Go to nwa (http://<server>:<port>/nwa)

Go to SOA –> Technical Configuration
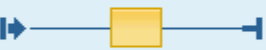
Select Destinations

Click on Create.

Enter Destination Name as FP_ICF_DATA_<SID of As ABAP>

Select Destination Type as HTTP. Click Next.

Enter URL of As ABAP system (http://<server>:<port>) e.g. http://abc.com:8000

Enter System ID and Client of As ABAP system.

On Next screen, Select Authentication as Basic.

Enter User as ads_agent and its password.

Destinations: Destinations
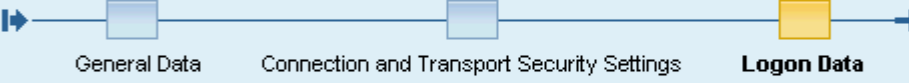
Favorites Related Links Go To Support Details

| Destinations | CAF Configuration |

Destination Wizard

Ping Destination

HTTP Destination FP_ICF_DATA_▮▮▮▮

General Data   Connection and Transport Security Settings   **Logon Data**

Logon Data

Authentication: Basic (User ID and Password) ▾

Basic Authentication

User Name: ads_agent
Password: ••••••••

Cancel   ◀ Previous   Next ▶   Finish

Click on Finish.

Destinations: Destinations

☑ Destination FP_ICF_DATA_⬛ saved successfully on hosting system Local Java System ⬛

Favorites ▾   Related Links ▾   Go To ▾   Support Details

Destinations | CAF Configuration

Show: All Destinations ▼

Destination List

[Create...] [Remove] [Remove All] [Refresh]

Destination	Destination Type
DASdefault	HTTP Destination
FP_ICF_DATA_⬛	HTTP Destination

By this way, configuration of ADS on As Java side is complete.

As ABAP

Login to As ABAP system.

1) Create user ADSUSER as a system User in transaction SU01.

2) Create user ADS_AGENT as a system user in transaction SU01 and assign roles SAP_BC_FP_ICF, SAP_BC_FPADS_ICF & SAP_BC_JSF_COMMUNICATION.

Note: Either assignstandard roles or make a copy of this role to Z roles. If you are assigning standard roles then make sure that profile of these roles should be generated.

3) Create role ADSCALLERS in PFCG and assign user ADSUSER to it.

4) Go to t-code SM59 and create ADS RFC as Type G.

   a) In Target System settings, enter target host name and Service no. of your As Java systems.

   b) In Path Prefix, enter- /AdobeDocumentServices/Config?style=rpc

   c) In Logon & Security tab, select Basic Authentication. Then, enter user adsuser and its password.

RFC Destination

Connection Test	

RFC Destination	ADS	
Connection Type	6 HTTP Connection to External Serv	Description

Description

Description 1	RFC for ADS Configuration
Description 2	
Description 3	

Administration	Technical Settings	Logon & Security	Special Options

Target System Settings

Target Host		Service No.	
Path Prefix	/AdobeDocumentServices/Config?style=rpc		

HTTP Prow Options

Save the RFC.

5) Go to SICF and activate below services

/default_host/sap/bc/fp

/default_host/sap/bc/fpads

By this way configuration of ADS is completed.

If you face any problem during ADS configuration or during testing, Please check below SAP notes:

944221- Troubleshooting if problems occur in forms processing

915399- com.adobe.ProcessingError File not found on URL Location

Link to help.sap.com for ADS Configuration-

http://help.sap.com/SAPhelp_nw73/helpdata/en/a8/fe362be64d4e3784e951e482a6eaff/content.htm?frameset=/en/69/a633254b6e47e6aa379e68e36eb66d/frameset.htm

Alert Moderator

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Retagging required | sunny pahuja2 |

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Related Questions

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28 Comments

You must be **Logged on** to comment or reply to a post.

Juan Reyes

January 4, 2012 at 1:01 am

Hi Sunny,
Nice strait to the point technical blog. Don't be afraid to throw a joke or two next time 😀

Best Regards
Juan

Like (1)

Nicholas Chang

January 9, 2012 at 2:53 am

Hi Sunny,
Thanks for sharing and i'm sure it'll be helpful to many sapadmin when the times come.

Thanks,
Nicholas Chang

Like (0)

Former Member

March 15, 2012 at 7:57 pm

Hi Sunny,

Thanks for providing ads configurtaion steps.

Is there any standard docuemnt that you followed for configuring the ads setup in NW 7.3. I could not find any ADS document available in market palce on latest version.

Can you please provide me the location you have donwloaded the document.

Best Regards,

Uday

Like (0)

Sunny Pahuja | Post author

March 16, 2012 at 10:53 am

Hi,

You can follow ADS config on help.sap.com. Please find below the link:

http://help.sap.com/saphelp_nw73/helpdata/en/69/a633254b6e47e6aa379e68e36eb66d/frameset.htm

Thanks

Sunny

Like (0)

Former Member

March 28, 2012 at 8:25 am

Hi Sunny,

Thanks for sharing the link,I am at step "Setting Up Basic Authentication to ADS in a Java Environment"

http://help.sap.com/saphelp_nw73/helpdata/en/69/a633254b6e47e6aa379e68e36eb66d/frameset.htm

As per the help link if UME is JAVA then we need to create *WSIL as Destination* connection to point to JAVA stack.

But as per your Blog step H4 you have connected it to ABAP,I think your UME is ABAP?

In my case UME its JAVA ,so do I still need to create userID in ABAP aswell for commuication?

Regards

Uday

Like (0)

Sunny Pahuja | Post author

March 28, 2012 at 9:21 am

Hi,

In my case UME was As Java only. Yes, you need to create user ID in ABAP as well for communication.

Thanks

Sunny

Former Member

March 29, 2012 at 7:32 am

Hi Sunny,,

Thanks you,I have setup the way you mentioned.

After creating FP_ICF_DATA_SID destination when I do a ping destination it fail with "Error during ping operation: Ping not successful! Received HTTP response 404"

I cross checked the passwords for ADS_AGENT and User in ABAP as well JAVA every thing looks fine

From ABAP side ADS "G" type connection as well gave me

Status HTTP Response 405

Status Text Method Not Allowed

Duration Test Call 7 ms

Regards

Uday

Sunny Pahuja | Post author

March 29, 2012 at 7:39 am

Hi,

If you are getting status- Received HTTP response 404. Then it is fine.

Thanks

Sunny

Former Member

March 29, 2012 at 8:13 am

Hi Sunny,

Thank you..things are working fine as expected

Thanks for all your help in fixing the issues.

I see Connection test ADS (G connection from ABAP)ends up with

Status HTTP Response 405

Status Text Method Not Allowed

Duration Test Call 7 ms

Regards

Uday

Like (0)

Former Member

Hello Sunny and Uday,

So is it OK if we get the following error after testing the connection in ABAP SM59?

Status HTTP Response: 405
Status Text: Method Not Allowed

Error: com.sap.engine.services.webservices.espbase.server.additions.wsa.WSAddressingException: com.sap.SOA.wsr.030104 – Expected request method POST. Found GET.

Regards,
Mei

Like (0)

Sunny Pahuja | Post author

Hi,

No, Status response should be 404.

Thanks

Sunny

Former Member

April 10, 2012 at 10:42 am

Hi Sunny,

Even my status response is 405 and things are working fine as expected,there is not issue as of now with our ADS

Regards

Uday

Former Member

June 22, 2012 at 9:17 am

Hi Gurus,

My system response is 405. From SA38 I executed FP_TEST_00 – "Opened a PDF Page", FP_PDF_TEST_00 – "Displayed Version number", FP_CHECK_DESTINATION_SERVICE – "6887 bytes transferred". But when I tried print preview from T-Code PC00_M40_EPF – "no job started". Can

u suggest what the error exactly is? and how to resolve this.

Regards,

Srinivas

Like (0)

Sunny Pahuja | Post author

June 22, 2012 at 4:02 pm

Hi,

Are you trying to configure ADS for digital signature ?

Thanks

Sunny

Like (0)

Former Member

June 23, 2012 at 6:25 am

Hi sunny

I have configured ADS to avail print preview for form 12a(HCM). For your question, I dont know about digital signature. Thanks for your blog
http://scn.sap.com/people/sunny.pahuja2/blog/2012/01/04/ads-configuration-in-netweaver-73#comment-310160 helped me configure. But now I am facing above problem.

Regards,

Srinivas

Like (0)

Deb Nugent

December 10, 2012 at 9:02 pm

Thank-you Sunny. This blog is a very good help on this configuration. However, after following, I am still having a problem with my connections. Everything looks like it should but when I test the ADS connection from my ABAP system, I am getting HTTP 404 errors. This is when I am testing with programs FP_CHECK_DESTINATION_SERVICE and FP_TEST_00. I am getting errors:

SYSTEM ERROR: SOAP Framework error: SOAP Runtime Exception: CSoapExceptionTransport : HTTP receive failed with exception communication_failure (100,101).
Exception of class CX_FP_RUNTIME_INTERNAL

I have been searching notes / SCN and have gone through the help files as well but so far, I am still getting this error. This is with basic configuration – no added security.

Has anyone seen anything like this or have any ideas of what I should check / where?

Thanks again,

Deb.

Former Member

December 11, 2012 at 2:56 pm

Hello Deb,

Try checking with sicf and smicm.

Regards,

Srinivas

Deb Nugent

December 27, 2012 at 9:47 pm

Problem was solved with help from SAP. Ended up the port on the firewall between my systems was blocked. Once port was opened, we were able to connect and everything worked perfectly. Thank-you! Greatly appreciated your help.

Deb.

Abhi S

November 13, 2013 at 5:37 pm

Nice blog Suny. I have a question for you. What if UME is connected to LDAP. Where we have to create the ADSUser. Can you help me?

Thanks!

Abhinav

Former Member

January 13, 2014 at 1:02 pm

Thank you for this nice tutorial Sunny.

Former Member

January 21, 2014 at 9:19 pm

Great blog. Thank you Sunny. Worked like charm. I just had to restart the instance as restarting services did not make the pfx file take effect.

Thanks,

Raj

Sunny Pahuja | Post author

January 22, 2014 at 4:49 pm

Thanks Raj!

Regards,

Sunny

Willi Eimler

May 22, 2015 at 12:11 pm

Hi Sunny,

good blog. It helped me. But in my BI system there was one more issue:

TA: SM30 -> RSPOR_T_PORTAL -> Set X to "Use SAP Export Library (PDF)"
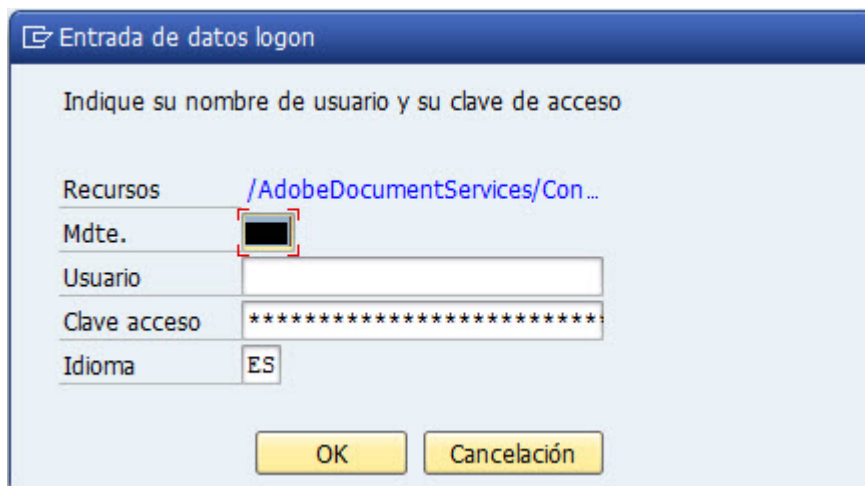
Best regars

Willi Eimler

Like (0)

![Former Member avatar] Former Member

July 8, 2016 at 1:52 am

Hi.

The system is showing the following screen:

Entrada de datos logon

Indique su nombre de usuario y su clave de acceso

Recursos	/AdobeDocumentServices/Con…
Mdte.	■
Usuario	
Clave acceso	*************************
Idioma	ES

OK   Cancelación

I am working with SAP NW 7.4

Like (0)

Former Member

Hi Carmen,

you have to put it the login information for adsuser.

regards

Martin

Like (0)

Former Member

Hi Martin.

Our UME is on As Java.

I have updated the password of the user ADSUSER in the Destination Template Management.

1. Question:

The user adsuser and the password is the created in the ABAP system?

For this in the portal−>

   a) Create ADSUSER as a Technical User in Identity management if it does not exist.

   b) Create ADSCALLERS group in Identity Management.

   c) Assign UME Role SAP_ADSCALLER (You need to assign this role only to users who need to access ADS). In my case, I assigned this role to the ADSCALLERS group in identity management.

   d) Assign ADSCALLERS group to ADSUSER in identitiy management.

   Yo also update in the destination with the user ADS_AGENT

   Create Destination FP_ICF_DATA_<SID of As ABAP> in SOA.

   Go to nwa (http://<server>:<port>/nwa)

   Go to SOA −> Technical Configuration

For the ERP: **As ABAP**

Login to As ABAP system.

1) Create user ADSUSER as a system User in transaction SU01.

2) Create user ADS_AGENT as a system user in transaction SU01 and assign roles SAP_BC_FP_ICF, SAP_BC_FPADS_ICF & SAP_BC_JSF_COMMUNICATION.

3) Create role ADSCALLERS in PFCG and assign user ADSUSER to it.

4) Go to t-code SM59 and create ADS RFC as Type G.

    a) In Target System settings, enter target host name and Service no. of your As Java systems.

    b) In Path Prefix, enter- /AdobeDocumentServices/Config?style=rpc

    c) In Logon & Security tab, select Basic Authentication. Then, enter user adsuser and its password.

2. Question:

The user adsuser and the password is the created in the portal.

Haron Chege

December 15, 2016 at 11:23 am

can you do a ADS configuration on a ABAP Only system without solution manager?

Like (0)

Former Member

October 16, 2017 at 8:10 pm

I have recorded same steps on following video, hope its useful

https://youtu.be/SDbvKNJwSHA

Like (0)

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