



White Paper

Installation and Configuration of Fabasoft iArchiveLink

Fabasoft Folio 2025 Update Rollup 1

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1 Introduction

This document describes the installation and configuration of Fabasoft iArchiveLink in a Microsoft Windows environment or Linux environment using an existing Fabasoft Folio Domain.

Fabasoft iArchiveLink provides a software product package, a setup for the installation of a system service and a setup for the installation of the SAP control stub.

2 Software Requirements

System environment: All information contained in this document implicitly assumes a Microsoft Windows or Linux environment.

Supported platforms: For detailed information on supported operating systems and software see the software product information on the Fabasoft distribution media.

Descriptions in this document are based on the following software:

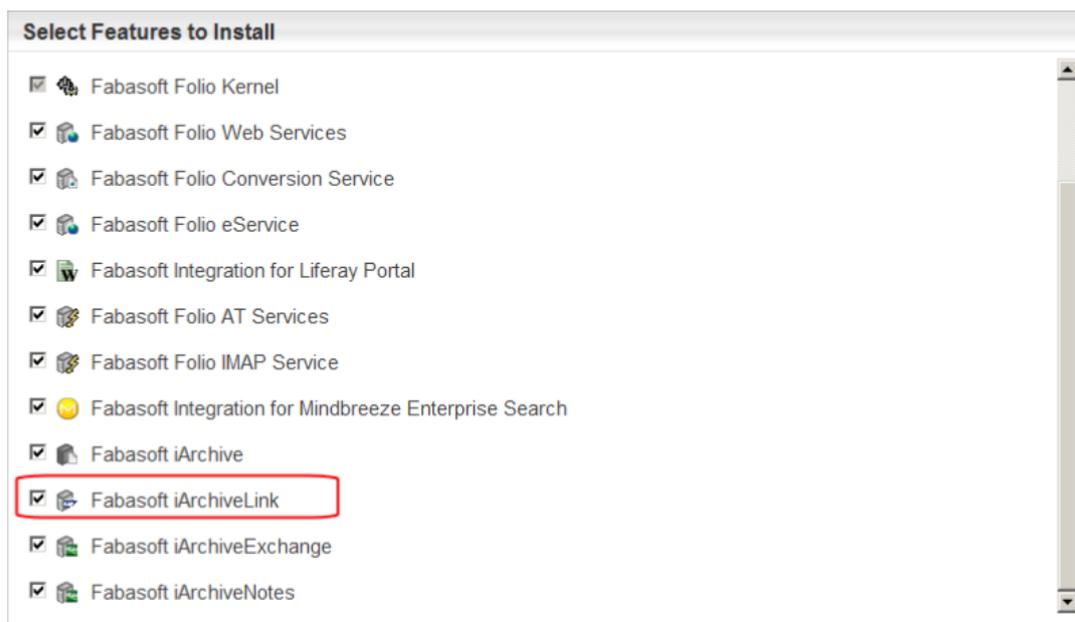
- SAP ERP Central Component (ECC) 6.0 EHP 8
- Microsoft Visual C++ Redistributable 2019

3 Installation of the Fabasoft iArchiveLink Service

Fabasoft iArchiveLink can be installed on a dedicated server or on an existing Fabasoft Folio Web Server.

For upgrade Fabasoft Folio 2016 and lower to a newer Fabasoft Folio version see chapter 11 “Upgrade Steps for Fabasoft Folio 2016 and Lower”.

During the installation process of your Fabasoft product, additionally select *Fabasoft iArchiveLink*.



SELinux

If SELinux is enabled, the port on which the iArchiveLink web service is running must be announced to SELinux.

If the default port 17050 was maintained when running the iArchiveLink setup, then this port can be configured for SELinux using the following command:

```
semanage port -a -t fsc_iarchivelink_port_t -p tcp 17050
```

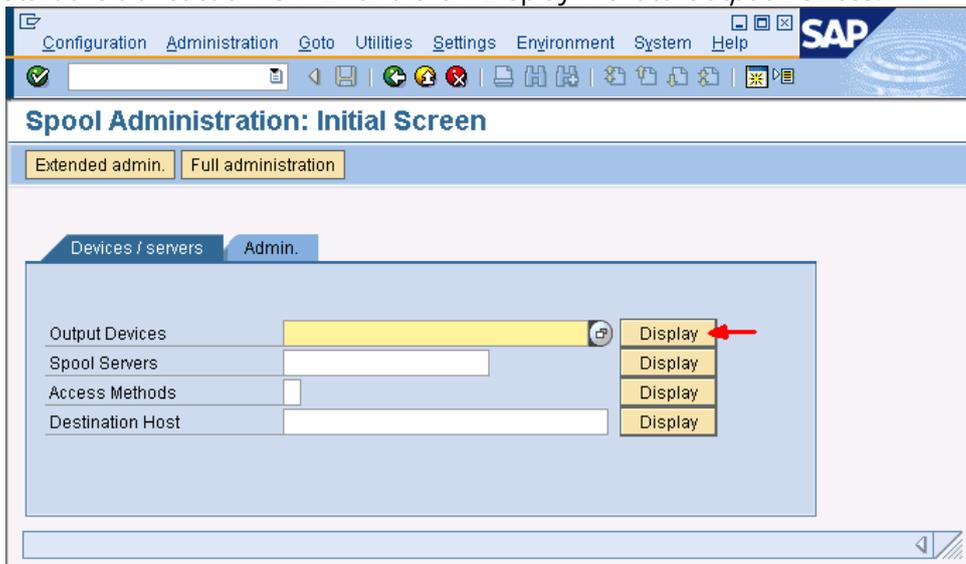
4 Configuration of the SAP System

Fabasoft iArchiveLink can only be used with a well-configured SAP system. The next chapters describe several configuration steps.

4.1 Output Device

First it has to be checked whether an output device for Fabasoft iArchiveLink is configured. If no output device is configured, a new one has to be created. Perform the following steps:

1. Start the transaction "SPAD" and click "Display" next to *Output Devices*.

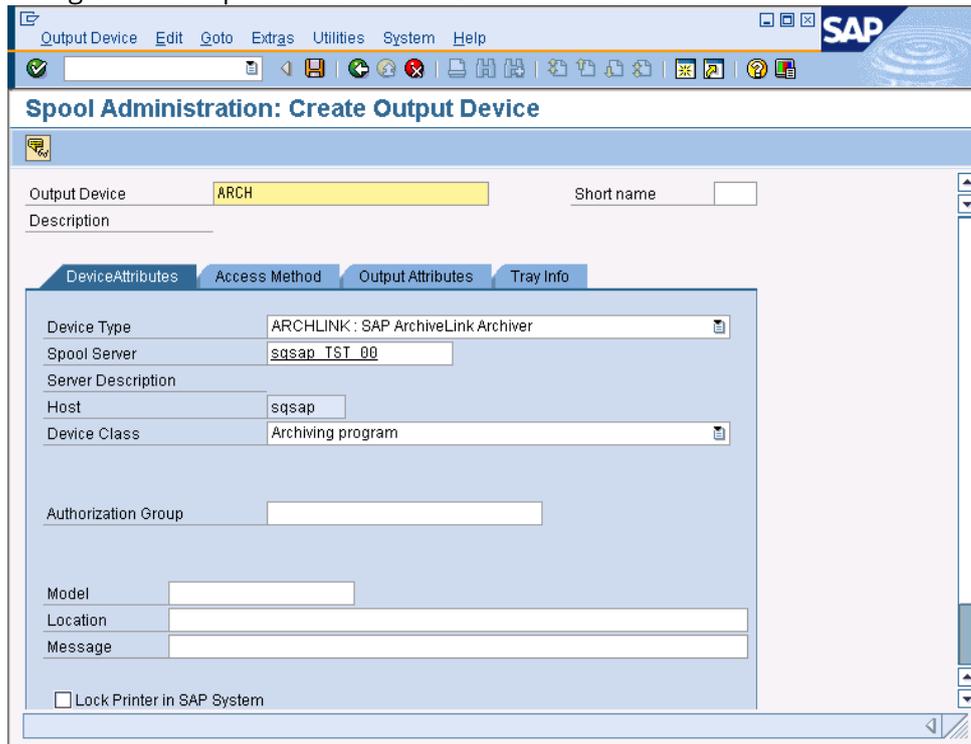


2. If there is no entry with *Dev. type* "ARCHLINK", create a new one.

Dev.	Dev. type
ARCH	ARCHLINK

3. To switch into edit mode click "Change"  or F8 and then click "Create"  or Shift+F1.

4. Configure the output device on the "DeviceAttributes" tab.

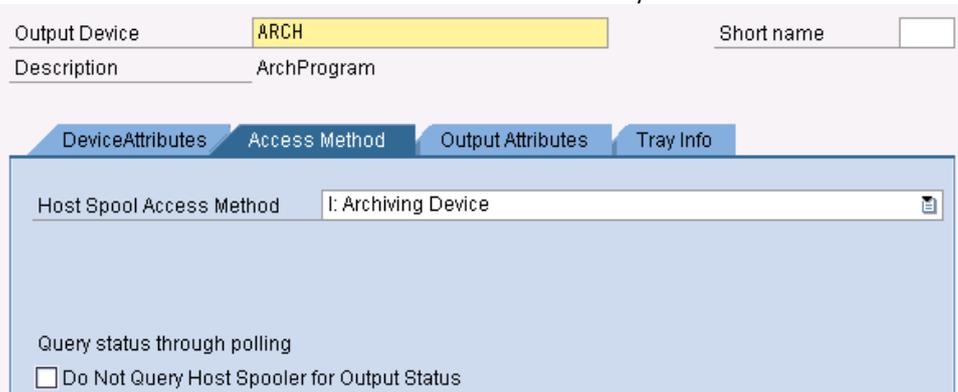


The screenshot shows the SAP Spool Administration interface for creating an output device. The window title is "Spool Administration: Create Output Device". The "Output Device" field is set to "ARCH" and the "Short name" field is empty. The "Description" field is empty. The "DeviceAttributes" tab is selected, showing the following fields:

- Device Type: ARCHLINK : SAP ArchiveLink Archiver
- Spool Server: sqsap_TST_00
- Server Description: (empty)
- Host: sqsap
- Device Class: Archiving program
- Authorization Group: (empty)
- Model: (empty)
- Location: (empty)
- Message: (empty)

There is a checkbox labeled "Lock Printer in SAP System" which is currently unchecked.

Click the "Access Method" tab and define the *Host Spool Access Method*.



The screenshot shows the same SAP Spool Administration interface, but with the "Access Method" tab selected. The "Output Device" field is still "ARCH" and the "Short name" field is empty. The "Description" field is now "ArchProgram". The "Access Method" tab shows the following fields:

- Host Spool Access Method: I: Archiving Device
- Query status through polling: (checked)
- Do Not Query Host Spooler for Output Status: (unchecked)

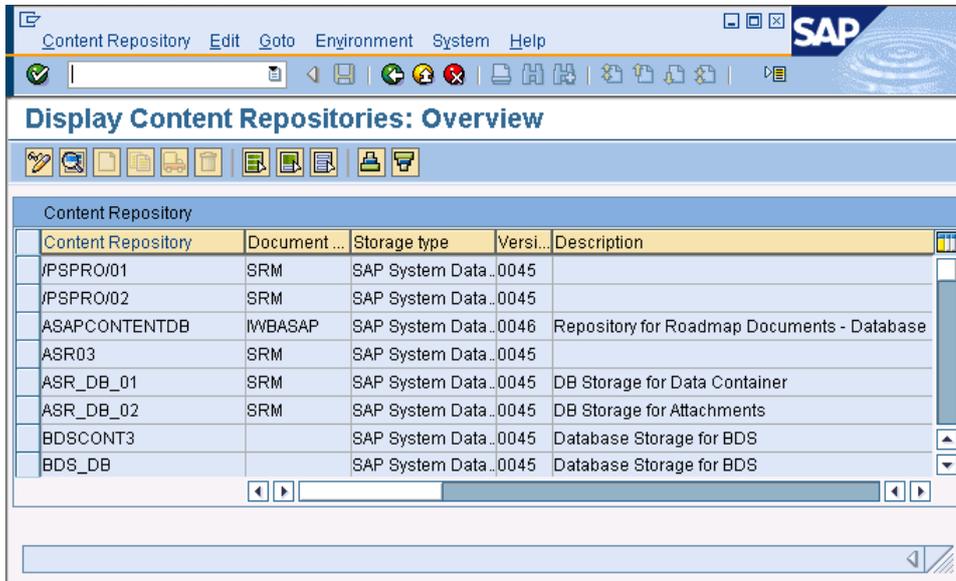
5. Afterwards click "Save"  to save the changes.

4.2 Content Repository

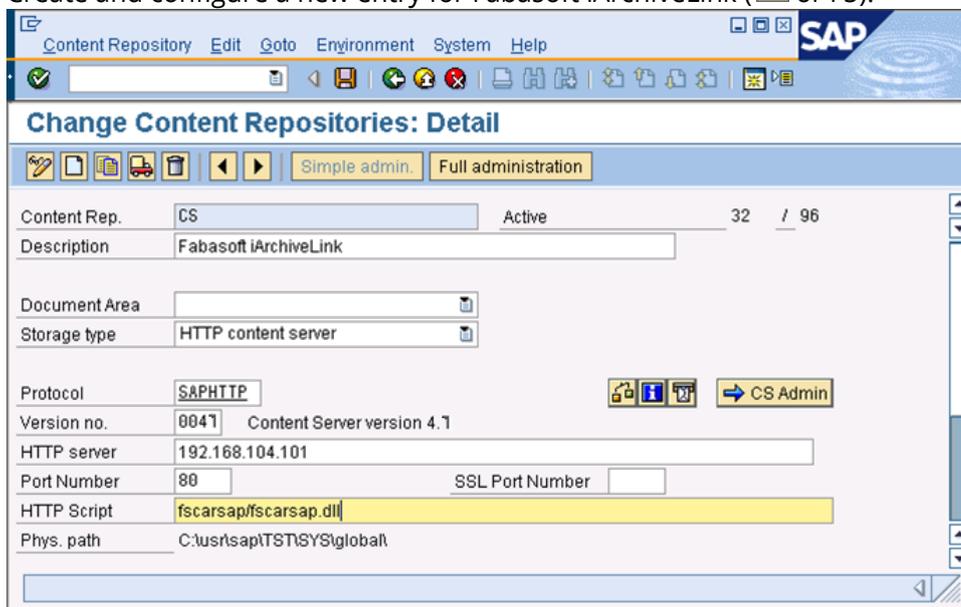
In SAP the Fabasoft iArchiveLink HTTP content server has to be configured as content repository.

Perform the following steps:

1. Start the transaction "OAC0".



2. To switch into edit mode click "Display/Change" .
3. Create and configure a new entry for Fabasoft iArchiveLink ( or F5).



4. Ensure that you are in "Full administration" mode by using the corresponding buttons.
5. The following options must be configured at least:
 - o *HTTP server*
Type the IP address or server name of the Fabasoft iArchiveLink server.

- *Port Number*
Specify the port on which the Fabasoft iArchiveLink Service is listening (typically in a Microsoft Windows environment: 80 and in a Linux environment: 17050).
 - *No Signature*
The checkbox needs to be unchecked.
 - *HTTP Script*
Specify the HTTP script. Type "FSCArSap/fscarsap.dll".
6. Use "Test Connection"  to test the connection between SAP and the Fabasoft iArchiveLink Service.
 7. Click "Send Certificate"  to send the certificate to the Fabasoft iArchiveLink Service.
 8. Click "Exit"  to save the configuration settings.

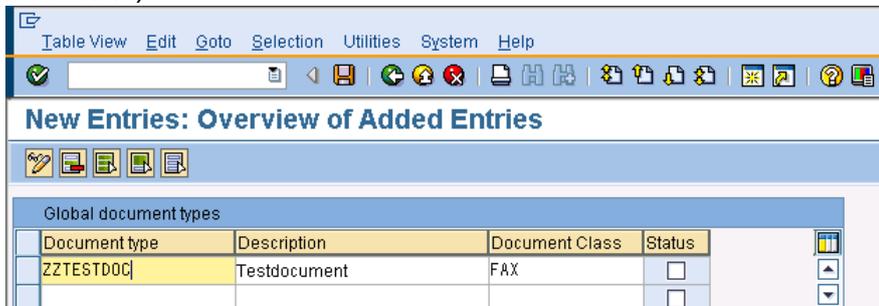
Note: If one Fabasoft iArchiveLink Service should connect to several SAP systems it is mandatory that each content repository ID is unique and each certificate has a unique common name.

4.3 Document Type

For testing purpose create your own document types. The names of these document types have to start with "Z" (e.g. "ZZPRILIST").

To create a new document type, perform the following steps:

1. Start the transaction "OAC2".
2. Click "New Entries".
3. Specify the settings for the new document type (e.g. FAX, PDF or DOC in the "Document Class" field).



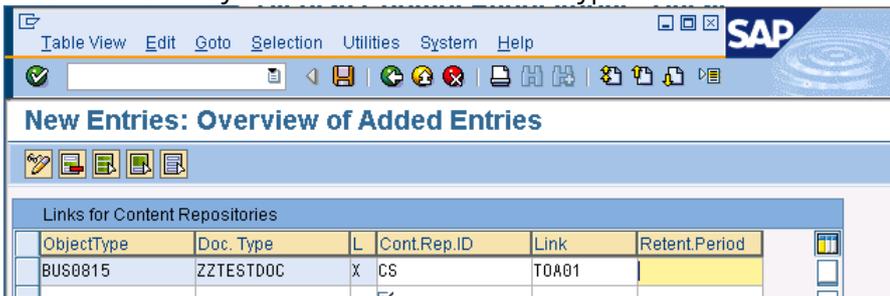
4. Afterwards the document type has to be linked.

4.4 Link for Content Repository

To link a document type, perform the following steps:

1. Start the transaction "OAC3".
2. To switch into edit mode click "Display/Change" .
3. Click "New Entries".

4. Create a new entry for the desired document type.



Note: Only links with “L=X” will be active.

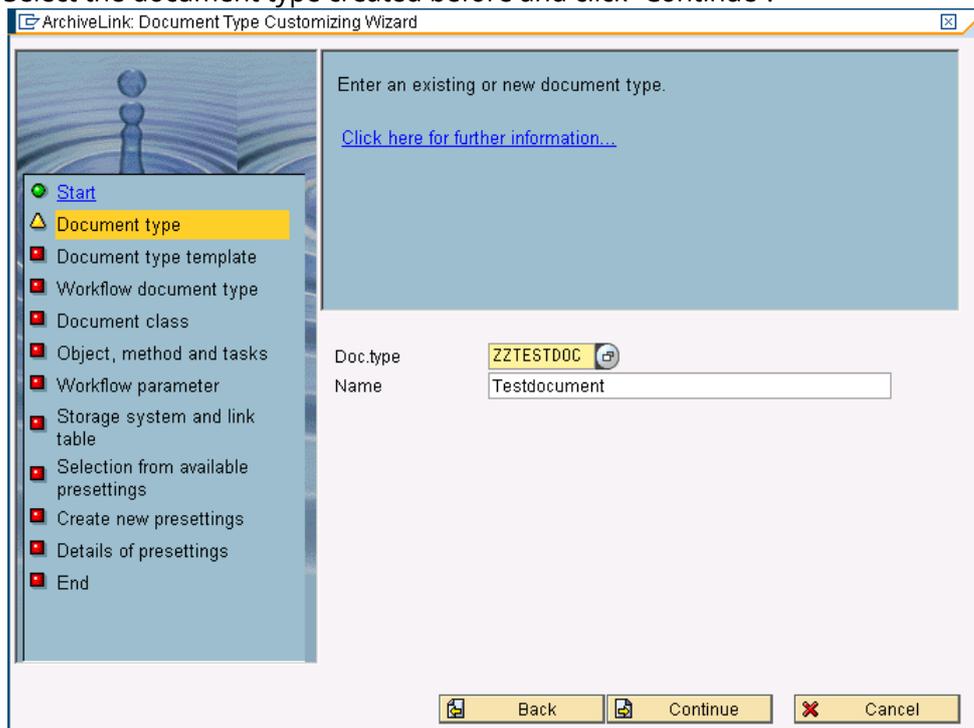
5. Click “Save”  to save the configuration.

4.5 Document Type Customizing Wizard

The document type customizing wizard can be used to specify workflow pre-settings for existing document types or new document types created using this wizard.

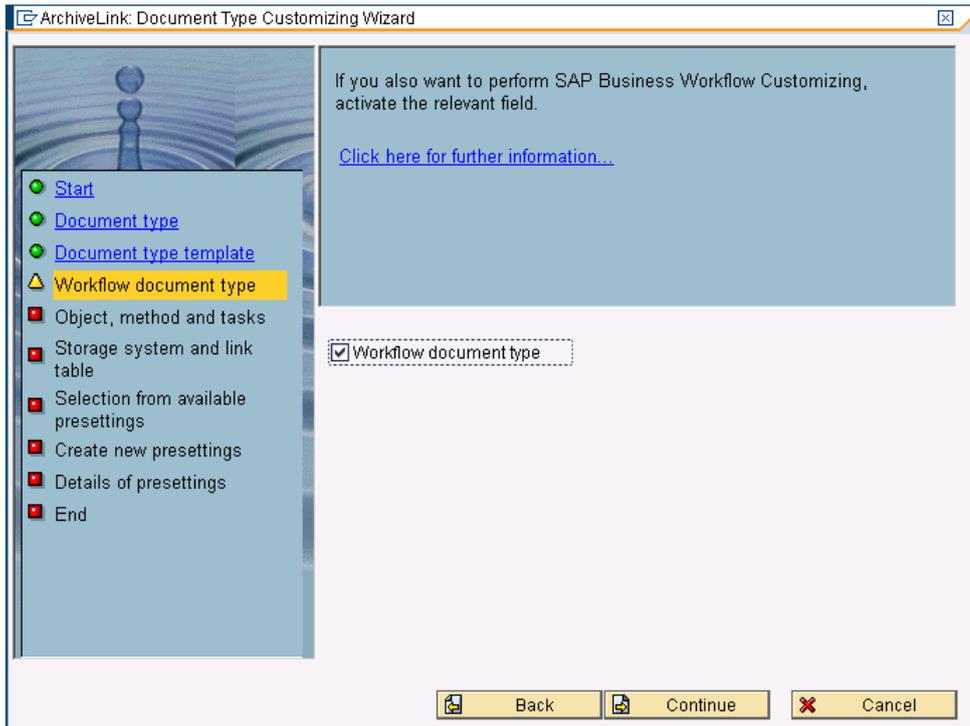
Perform the following steps:

1. Start the transaction “OAD5”.
2. Select the document type created before and click “Continue”.

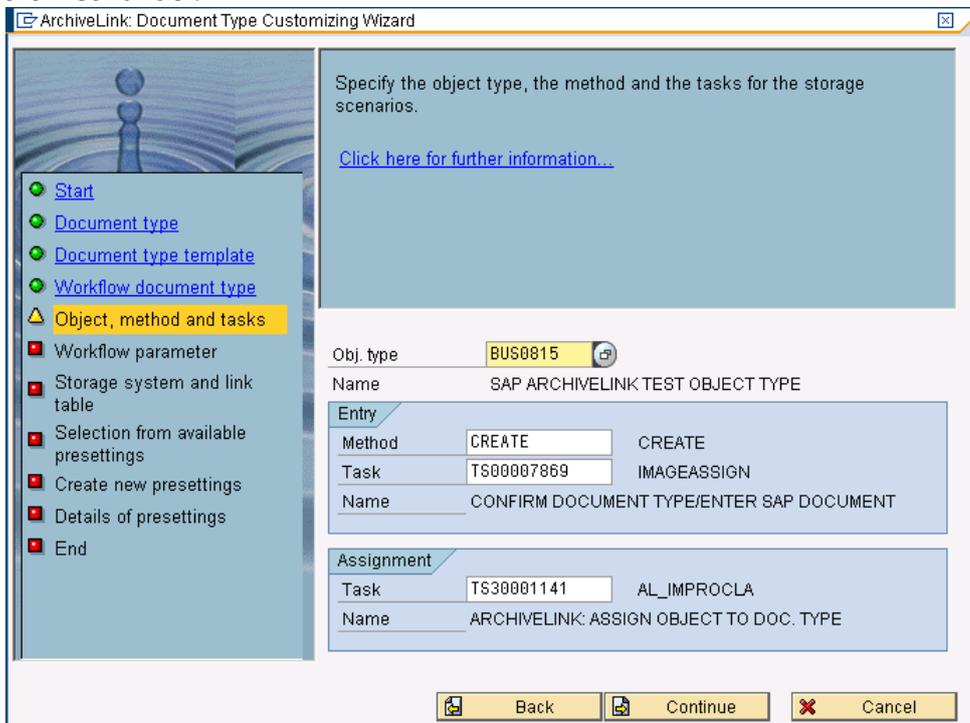


3. Select a document type template and click “Continue”.
- Note:** If no template is selected the default value is incoming invoice.

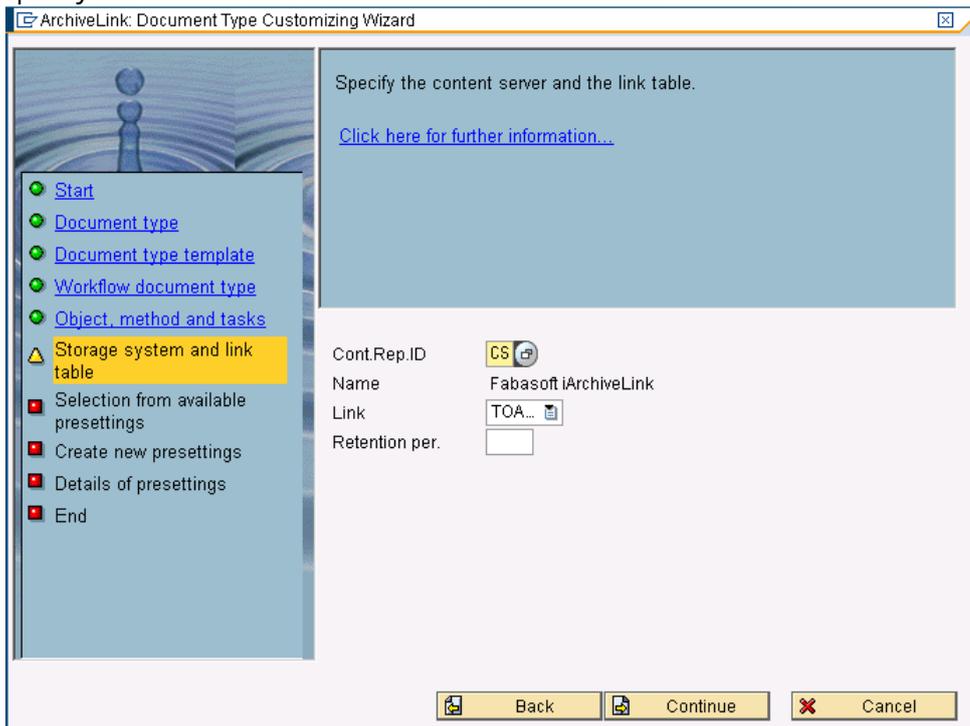
- Select the checkbox "Workflow document type" to define workflow pre-settings and click "Continue".



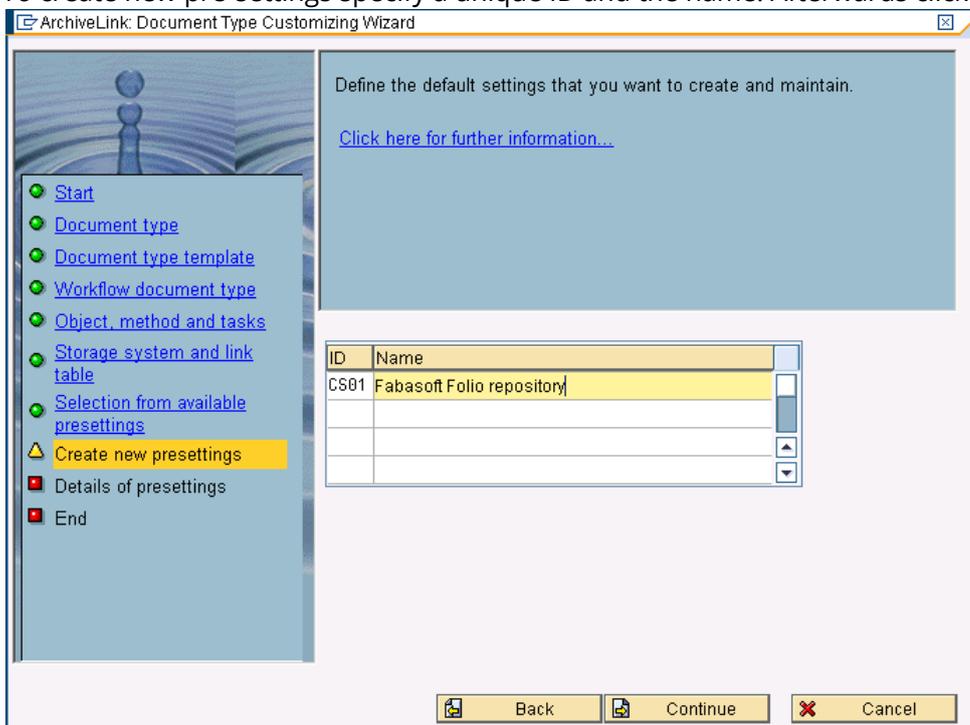
- Specify the object type. Select "CREATE" as entry method and specify the tasks. Afterwards click "Continue".



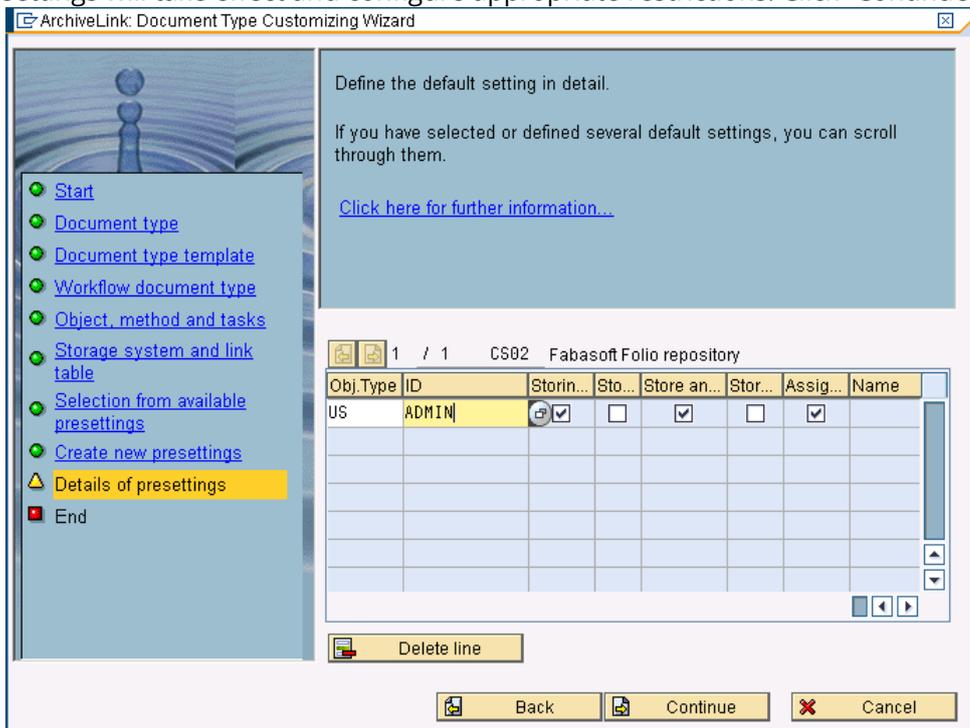
- Specify the content server and the link table and click “Continue”



- Select available pre-settings if you want to maintain these. Otherwise click “Continue” without selecting.
- To create new pre-settings specify a unique ID and the name. Afterwards click “Continue”.

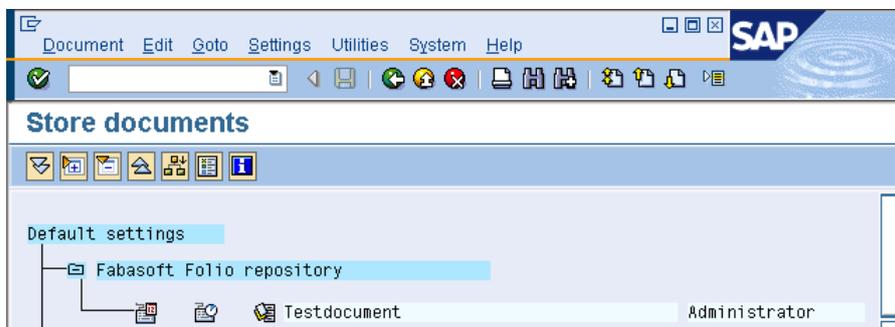


- Define the details of the pre-settings. Select an organizational unit for which these pre-settings will take effect and configure appropriate restrictions. Click "Continue".



- Click "Complete" to finalize the configuration.

Note: Start the transaction "OAWD". The pre-settings defined before should be available.

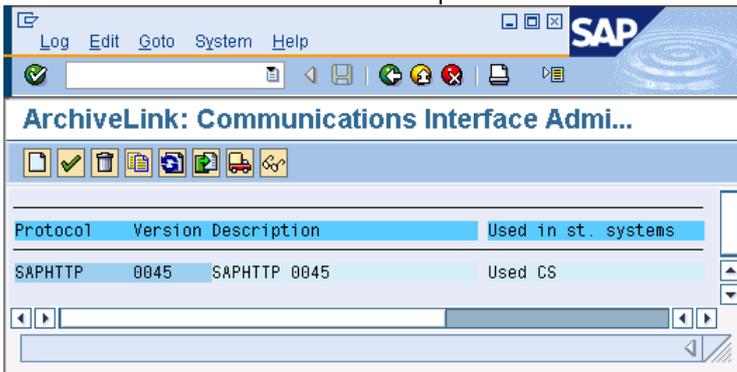


4.6 Configuration of the GUI Integration

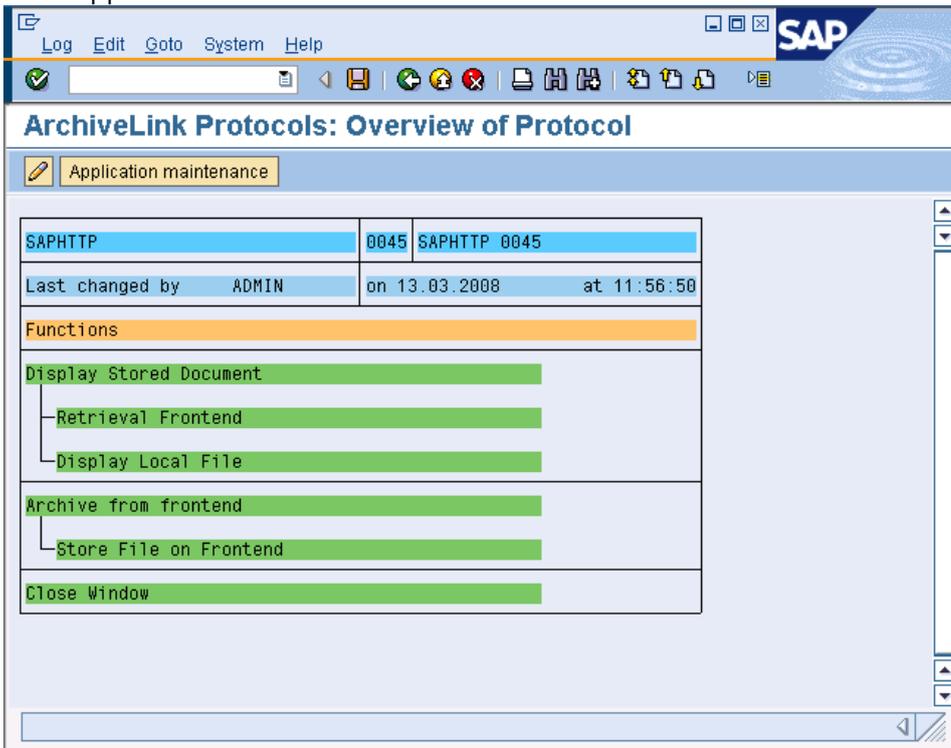
To configure the GUI integration, perform the following steps:

- Start the transaction "OAA3".

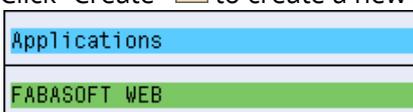
2. Double-click "SAPHTTP" to edit this protocol.



3. Click "Application maintenance".

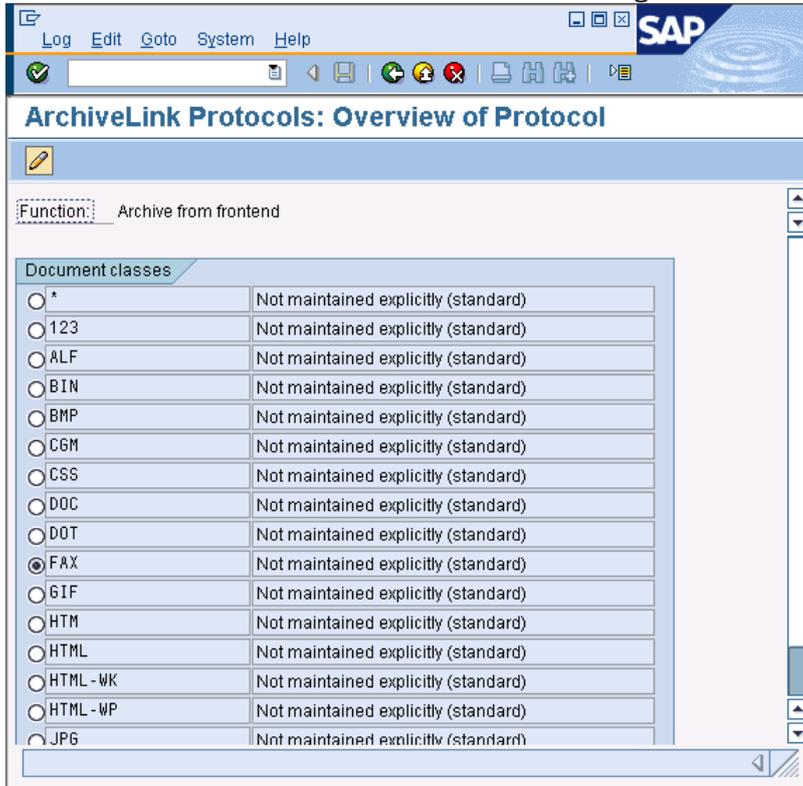


4. Click "Create"  to create a new application.

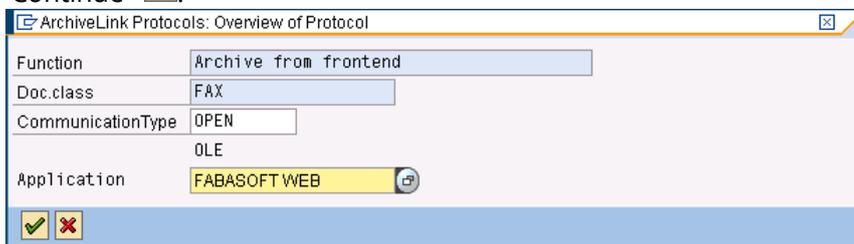


5. Double-click the new application.

- Double-click "Archive from frontend". Select a document class that should be maintained and double-click this document class or click "Change" .



- Select the communication type "OPEN (OLE)" and the application created before. Click "Continue" .



- Repeat the last two steps for all document classes that should be maintained. Afterwards click "Save" .
- Double-click "Display Stored Document". To maintain the stored documents repeat the steps described before to maintain a document class.

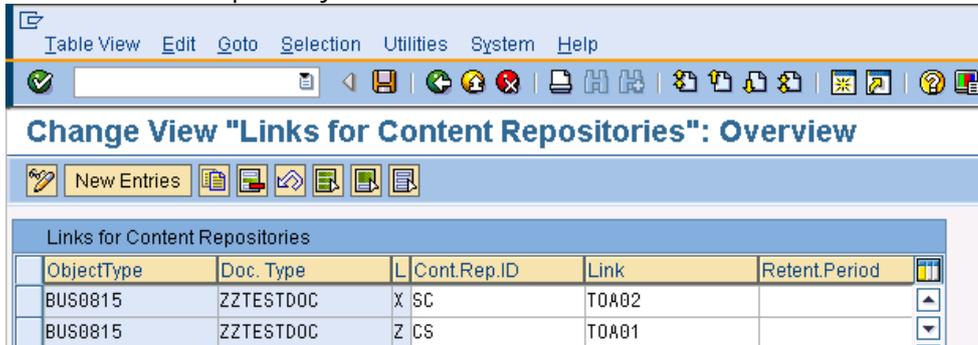
4.7 Support of Two Archives

In SAP a document type can only be active for one content repository, but archived contents are also available if the document type is inactive ("L=X", see chapter 4.4 "Link for Content Repository").

To configure a new archive edit the link of a document type, perform the following steps:

- Create a second content repository. See chapter 4.2 "Content Repository".
- Start the transaction "OAC3".
- To switch into edit mode click "Display/Change" .

4. Select the line of the link that should be configured to use the new content repository and click "Copy as" . A new line with a copy of the link configuration is created.
5. In the new entry change the "L" property to something different than "X". Click "Continue"  to confirm.
6. In the original entry change the "Cont.Rep.ID" and "Link" properties. Specify the newly created content repository.

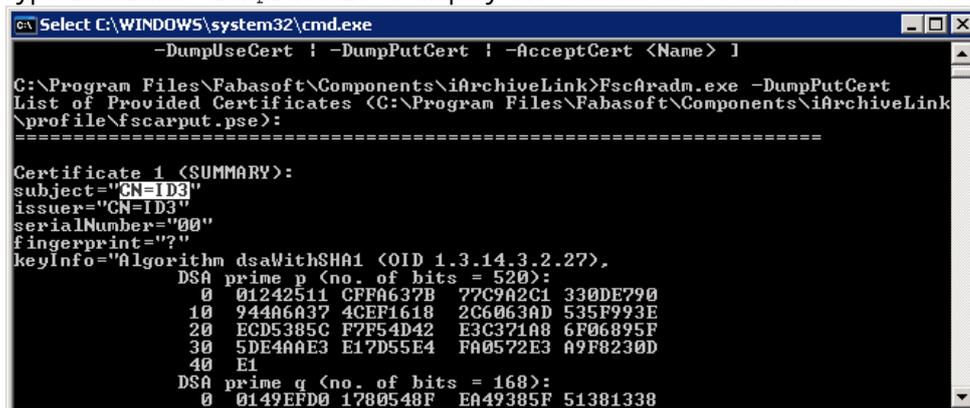


7. Click "Save"  to save the configuration.

5 Importing Certificates

To import a generated certificate (see chapter 4.2 "Content Repository") open a command shell on the server the Fabasoft iArchiveLink Services are executed and perform the following steps:

1. Change to the Fabasoft iArchiveLink installation directory (e.g.: C:\program files\Fabasoft\Components\iArchiveLink (Microsoft Windows) or /opt/fabasoft/bin/ (Linux)).
Note: On Linux platforms run the following commands as fscsrv.
2. Type `fscaradm -DumpPutCert` to display the content of the certificate that was sent by SAP.



```

C:\WINDOWS\system32\cmd.exe
-DumpUseCert | -DumpPutCert | -AcceptCert <Name> |

C:\Program Files\Fabasoft\Components\iArchiveLink>fscaradm.exe -DumpPutCert
List of Provided Certificates <C:\Program Files\Fabasoft\Components\iArchiveLink
\profile\fscarput.pse>:
=====
Certificate 1 (SUMMARY):
subject="CN=ID3"
issuer="CN=ID3"
serialNumber="00"
fingerprint="?"
keyInfo="Algorithm dsawithSHA1 (OID 1.3.14.3.2.27),
DSA prime p (no. of bits = 520):
0 01242511 CFFA637B 77C9A2C1 330DE790
10 944A6A37 4CEF1618 2C6063AD 535F993E
20 ECD5385C F7F54D42 E3C371A8 6F06895F
30 5DE4AAE3 E17D55E4 FA0572E3 A9F8230D
40 E1
DSA prime q (no. of bits = 168):
0 0149EFD0 1780548F EA49385F 51381338

```

3. Type `fscaradm -AcceptCert "<Subject>"` (e.g.: `fscaradm -AcceptCert "CN=ID3"`) to use this certificate.
4. Type `fscaradm -DumpUseCert` to display the content of the certificate that is in use.

Note: If one Fabasoft iArchiveLink Service should connect to several SAP systems it is mandatory that each certificate has a unique common name.

6 Enable HTTPS Connection Between SAP and the Fabasoft iArchiveLink Service

Optionally, the connection between SAP and the Fabasoft iArchiveLink Service can be configured as HTTPS connection.

Prerequisites

- Fabasoft iArchiveLink is fully configured and working with a HTTP connection.
- A SSL client PSE (Standard) is available in SAP.
For more information about how to create or maintain PSEs, please consult the SAP documentation. Especially the SAP Cryptographic Library is needed for SSL PSEs.
- A certificate and the issuing certificate authority for the Fabasoft iArchiveLink Service.

Tasks

- Enable HTTPS for the Fabasoft iArchiveLink Service.
- Add the certificate authority to the certificate list of the SSL client PSE.
- Configure the content repository to require HTTPS.

6.1 Enable HTTPS for the Fabasoft iArchiveLink Service

If the HTTPS protocol should be used for communication with the Fabasoft iArchiveLink Service, it has to be enabled explicitly.

Microsoft Windows

In a Microsoft Windows environment, HTTPS for the Fabasoft iArchiveLink Service has to be enabled in the Microsoft Internet Information Services. Please consult the third-party documentation for detailed information.

For example, see: <https://docs.microsoft.com/en-us/iis/manage/configuring-security/configuring-ssl-in-iis-manager>

To enable HTTPS in a Microsoft Windows environment, proceed as follows:

1. Open the Internet Information Services Manager.
2. Navigate to the default web site and define a HTTPS binding. Select the prepared certificate that should be used for authenticating the web server.
3. Navigate to the FSCARsap application. Open the SSL settings feature and select *Require SSL*.

Linux

To enable HTTPS in a Linux environment, proceed as follows:

1. Edit the file `/etc/fabasoft/web/ssl.conf`. Uncomment and configure the following lines:

```
SSLEngine on
SSLCertificateFile <path to server certificate>
SSLCertificateKeyFile <path to keyfile>
SSLCACertificateFile <path to ca certificate>
SSLVerifyClient require
SSLVerifyDepth 10
SSLUserName SSL_CLIENT_S_DN_CN
```
2. Edit the file `/etc/fabasoft/web/WebService_<number>.conf`. Replace `<number>` with the number of the Fabasoft Folio Web Service, where the HTTPS protocol should be used for communication.

Add the following line to the `include` paragraph:
`Include /etc/fabasoftware/web/ssl.conf`

3. Comment or remove other login directives like:
`# AuthName "Fabasoftware Folio"`
`# AuthType Basic`
`# AuthUserFile /etc/fabasoftware/web/htpasswd`
`# AuthGroupFile /etc/fabasoftware/web/htgroups`
`# Require valid-user`
4. Restart the Fabasoftware Folio Web Service.

6.2 Add the Certificate Authority in SAP

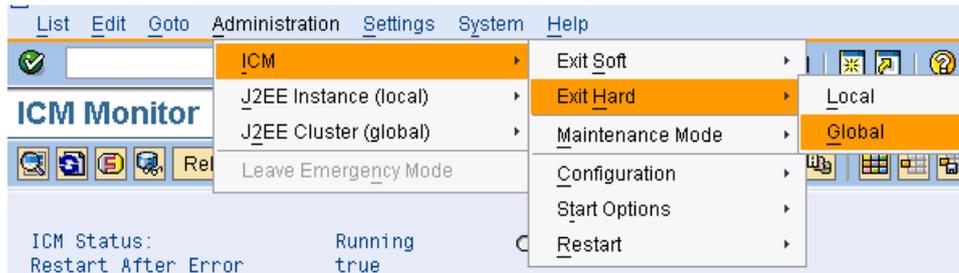
In order that SAP accepts the certificate used for the Fabasoftware iArchiveLink Service, the issuing certificate authority has to be added to SAP.

To add the prepared certificate authority in SAP, proceed as follows:

1. Start the "Trust Manager" (transaction "STRUST").
2. Navigate to the "SSL Client (Standard)".
3. In the "Certificate" area, click "Import certificate" . Specify the path to the CA certificate and choose the right encoding (e.g. Base64). Click "Continue"  to save the changes.
4. Click "Add to Certificate List" to add the certificate to the "Certificate List".
5. Save the configuration settings.
6. Restart all ICM processes.

To do so, start the transaction "SMICM".

Click "Administration" > "ICM" > "Exit Hard" > "Global":



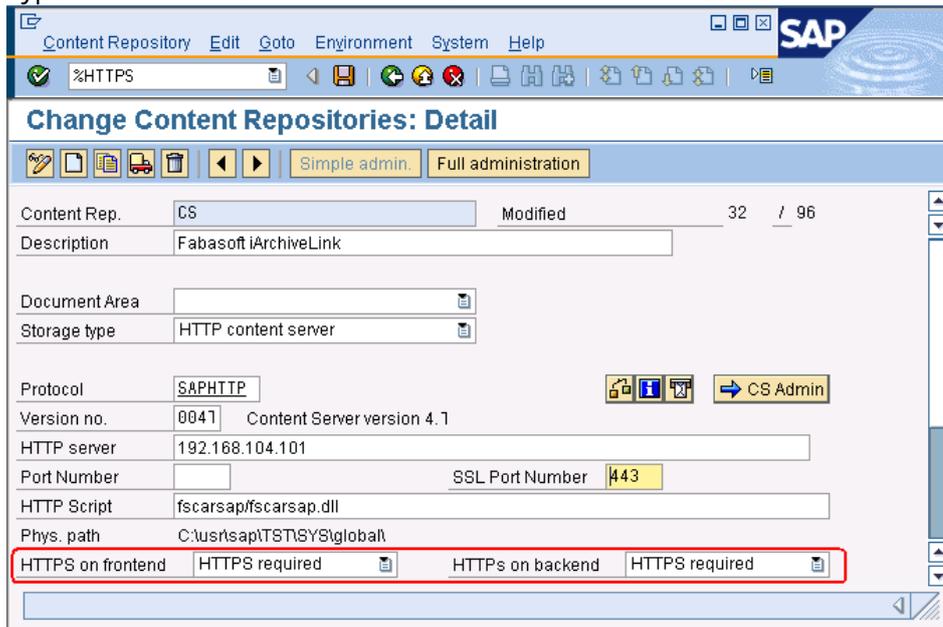
Click "Yes":

6.3 Configure the Content Repository to Require HTTPS

To configure the content repository, proceed as follows:

1. Start the transaction "OAC0".
2. Open the previously defined content repository (see chapter 4.2 "Content Repository").

3. Type "%HTTPS" in the transaction field:



4. Define the SSL port of the Fabasoft iArchiveLink Service and set HTTPS as required for the frontend and backend.
5. Use "Test Connection"  to test the connection between SAP and the Fabasoft iArchiveLink Service.
6. Save the settings.

7 Solution Manager Integration

7.1 SLD-Registration

The environment variable "JAVA_HOME" (path to Java) must be set.

Type `fscaradm -PostSLDREG http://<SLDserver>:<port>/sld/ds <username> <password> [<proxy> <proxy user> <proxy password>]` to register your system.

Example: `fscaradm -postsldreg http://sapserver:50000/sld/ds sldadmin sldpwd)`

The response should look like this (Status: 200, Status-Text: OK):

```
Calling: "C:\Program Files\Java\jre1.6.0_06\bin\java" -cp
"ThirdPartySystemXMLGenerator.jar"
com.sap.lcr.tools.xmlTools.ThirdPartySystemXMLGenerator .
FabasoftiArchiveLink.properties.tmp FabasoftiArchiveLink.template .
FabasoftiArchiveLink.properties.xml
Wed May 07 09:21:25 CEST 2008
ThirdPartySystemXMLGenerator - generates XML Documents to send with the SLDReg.

Returncode = 0
SLDReg XML File successfull created. All variables replaced.

FileUpload - Response Status: 200
FileUpload - Response Status-Text: OK
FileUpload - Response-Text:
```

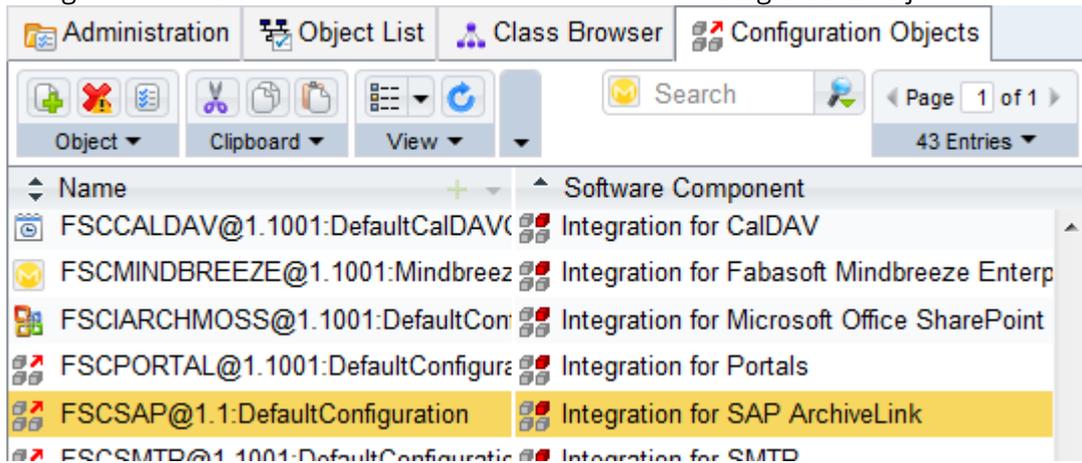
7.2 Log and Configuration Files

The log and configuration files are placed in `<temp-folder>/sapdata/` (e.g.:
`C:\WINDOWS\Temp\sapdata` (Microsoft Windows) or `/tmp/sapdata/` (Linux)).

8 Configuration of the Fabasoft Folio Domain

To configure the Fabasoft Folio Domain, perform the following steps:

1. Open the Fabasoft Folio Web Client.
2. Navigate to the “Domain Administration” and click the “Configuration Objects” tab.



3. Edit the properties of *FSCSAP@1.1:DefaultConfiguration*.

The screenshot shows the 'FSCSAP@1.1:DefaultConfiguration (SAP ArchiveLink Configuration): Edit' dialog box. It features a toolbar with 'Cancel', 'Apply', and 'Next' buttons. The 'Object' tab is selected, showing 'SAP ArchiveLink Configuration' and 'Configuration' sub-tabs. The 'Configuration' sub-tab is active, displaying the following fields:

- Content Repository (SAP): CS
- Default Protection (SAP): cdur
- Archive Contents Automatic: Undefined

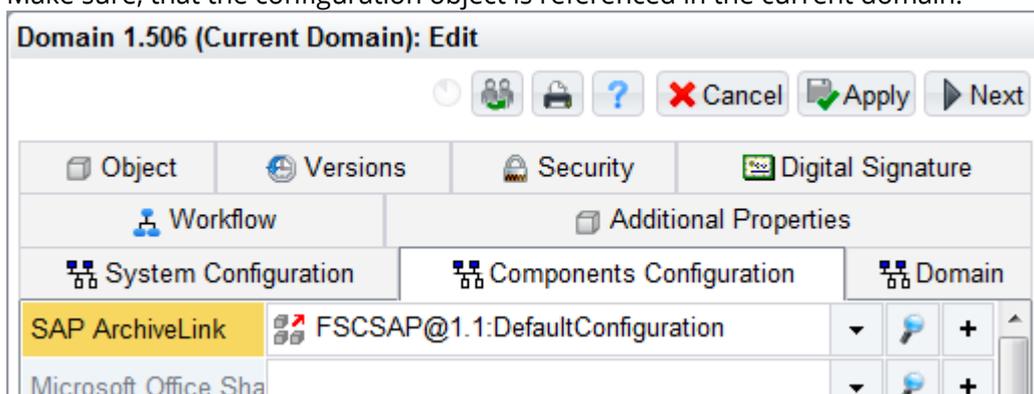
Below these fields are two sections for mapping:

- SAP Document Class Mapping for Delivering Barcodes:** One Entry. Includes a table with columns: Object Class * (Document), SAP Document Class * (DOC), and Software Component (Integration for SAP).
- Object Class Mapping for Creating Objects:** No Entries.
- SAP Content Repositories in Tenants:** No Entries.

The following fields are available:

- *Content Repository (SAP)*
This field is used to specify the identification of the SAP content repository. Enter the ID of the content repository defined in chapter 4 "Configuration of the SAP System".
- *Default Protection (SAP)*
The default document protection used for objects connected to SAP ArchiveLink can be defined in this field. "cdur" is selected by default.
 - c Create
 - d Delete
 - u Update
 - r Read
- *Archive Contents Automatically*
This field can be used to define if writing of objects is allowed, that are stored by Fabasoft iArchiveLink into an archive system by using Fabasoft iArchive.
- *SAP Document Class Mapping for Delivering Barcodes*
In this field a mapping for sending barcodes between Fabasoft Folio and SAP content classes can be configured.
 - *Object Class*
This field defines the object class in Fabasoft Folio.

- *SAP Document Class*
The SAP document class can be specified in this field.
 - *Software Component*
This field defines the software component that inserted the mapping.
 - *Object Class Mapping for Creating Objects*
In this field a mapping for newly stored documents between Fabasoft Folio and SAP content classes can be configured.
 - *File Extension*
The extension of the document to store.
 - *Object Class*
This field defines the object class in Fabasoft Folio.
 - *Software Component*
This field defines the software component that inserted the mapping.
 - *SAP Content Repositories in Tenants*
This field allows to configure a mapping between an SAP content repository and Fabasoft Folio Tenant content classes. A list of multi-tenant domains can be specified with IDs of content repositories and an optional list of network addresses.
 - *Tenant*
In this field the Fabasoft Folio Tenant can be defined.
 - *Content Repository (SAP)*
In this field the SAP content repository can be defined.
 - *Network Address Patterns*
In this field the configuration of a network pattern for better separation options is possible.
4. Click "Next" to save the settings.
 5. Make sure, that the configuration object is referenced in the current domain.



9 Checking the Installation

To check the installation of Fabasoft iArchiveLink HTTP content server perform the following steps:

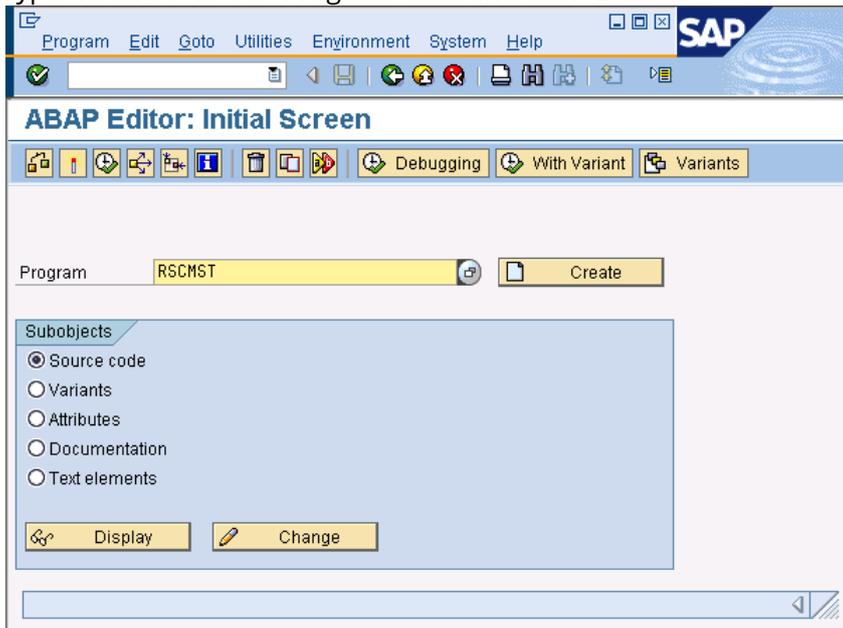
1. Open a web browser and enter the following URL
`http://<webserver>/FSCArSAP/fscarsap.dll?serverInfo&pVersion`
2. Check the output:

```
serverStatus="running";
serverVendorId="Fabasoft R&D GmbH";
```

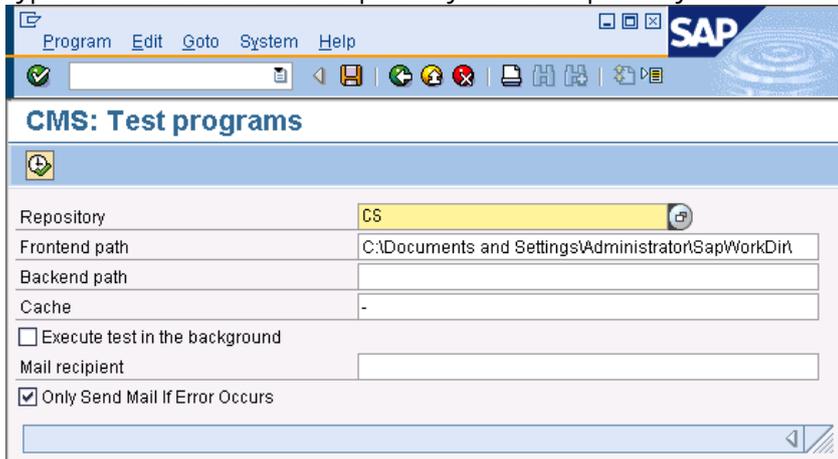
```
serverVersion="8.0";
serverBuild="114";
serverTime="09:18:32";
serverDate="2008-04-04";
pVersion="0047";
```

To check the integration of Fabasoft iArchiveLink execute the SAP test *SE38*. Perform the following steps:

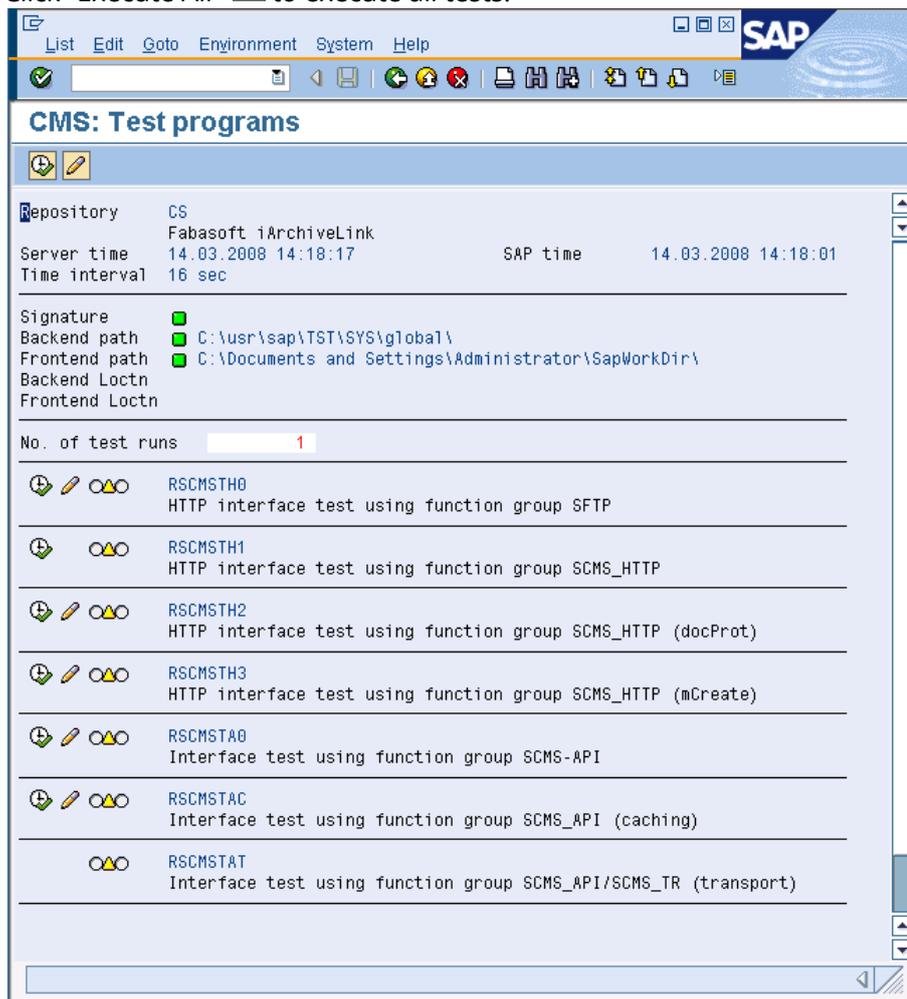
1. Start the transaction "SE38".
2. Type "RSCMST" in the "Program" field and click "Execute" .



3. Type the ID of the content repository in the "Repository" field and click "Execute" .



- Click "Execute All"  to execute all tests.



10 Client Configuration

On each device that uses Fabasoft iArchiveLink the SAP Folio Client has to be installed.

Installation prerequisites as described in chapter 2 "Software Requirements":

- SAPGUI
- Microsoft Visual C++ Redistributable Package

To install the SAP Folio Client, type the following URL in the web browser:

<https://<fscserver>/<fscvdir>/fscasp/content/lib/FolioClientSAP.msi> or execute Setup\ComponentsBase\Client\FolioClientSAP.msi from the Fabasoft installation media.

11 Upgrade Steps for Fabasoft Folio 2016 and Lower

If you want to upgrade Fabasoft Folio version 2016 and lower to Folio 2017 and later you have to perform the following steps before executing the setup:

1. Save the settings of the SAP configuration that is configured in the domain.
2. Open a command shell.

3. Change to the Fabasoft iArchiveLink installation directory (e.g.: `C:\Program Files\Fabasoft\Components\iArchiveLink`).
4. Type `fscaradm -UnregServer`.
5. Uninstall iArchiveLink with the executable (`C:\Program Files\Fabasoft\Components\iArchiveLink`).
6. Execute the Folio setup and update existing components.
7. Execute the Folio setup and install iArchiveLink.
8. Import certificates (see chapter 5 "Importing Certificates").
9. Edit the SAP configuration of your domain.