

How To Configure SFTP Adapter in SAP PI

Applicable Releases:

SAP PI 7.11 Onwards

Version 1.0

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Document History

Document Version	Description
1.00	First official release of this guide

Typographic Conventions

Type Style	Description
<i>Example Text</i>	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
Example text	Emphasized words or phrases in body text, graphic titles, and table titles
Example text	File and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example text	User entry texts. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

Icons






Icon	Description
	Caution
	Important
	Note
	Recommendation or Tip
	Example

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1. Business Scenario

Consider a business scenario where a 3rd party application hosts a SFTP Server communicates to external world via files. Your landscapes has SAP PI as middleware for communication between different systems.

This document explains how to use SAP PI SFTP adapter with security add on to communicate with SFTP server.

The document illustrates how to use sender and receiver adapter with both user/password and certificate based authentication.

2. Background Information

SFTP is a network protocol that provides file access, file transfer, and file management functionalities over any reliable data stream. It was designed by the Internet Engineering Task Force (IETF) as an extension of the Secure Shell protocol (SSH) version 2.0 to provide secure file transfer capability, Unlike simple FTP, it encrypts both commands and data, preventing passwords and sensitive information from being transmitted in the clear over the network. It is functionally similar to FTP, but because it uses a different protocol, you can't use a standard FTP client to talk to an SFTP server, nor can you connect to an FTP server with a client that supports only SFTP.

The protocol itself does not provide authentication and security; it expects the underlying protocol to secure this. SFTP is most often used as subsystem of SSH protocol version 2 implementations


Now SFTP Adapter is available in SAP PI Security Addon - PI SFTP PGP ADDON and can be download from SAP Market place from following path for free.

<https://websmp206.sap-ag.de/support> ->Software Downloads ->SUPPORT PACKAGES AND PATCHES ->BROWSE OUR DOWNLOAD CATALOG ->SAP NetWeaver and complementary products -> PI SFTP PGP ADDON

You can refer SAP NOTE: 1695521 for latest information on the download location of SFTP PGP Add-On.

3. Prerequisites

Software requirements

- PI 7.11 SPS 08 or higher (In this example, I am using PI 7.30 SPS 07).
- PI SFTP PGP ADDON installed on SAP PI server.
 -  SAP PI SFTP PGP ADDON is compatible with the following releases of PI. Please refer to note 1695563.
 - ✓ SAP NW PI 711 SP8
 - ✓ SAP NW PI 730 SP5
 - ✓ SAP NW PI 7.31 SP3

- SSH based SFTP Server.



In this document, we will be using Open SSH 6.0. In order to test this SFTP adapter, we need a SFTP Server which is up and running. The SSH server being used in this document- Cygwin is an emulation of the UNIX environment and Open SSH for Windows. Cygwin SFTP Server also provides OpenSSL utility.

- PuTTY: PuTTY is a free and open source terminal emulator application which can act as a client for the SSH.

Step to Check PI SFTP PGP ADDON installation on PI Server.

- Open the NetWeaver System Information using following URL

<http://<host>:<port>/nwa/sysinfo>

The screenshot shows the NetWeaver System Information page. The 'System Information' tab is selected. Below the tabs, there is a section for 'instances' with a 'More Actions' button. A table lists the database information:

Name
Database
SCS
00 (Instance ID31862)

- Open Tab “Components Info”

The screenshot shows the NetWeaver System Information page with the 'Components Info' tab selected. Below the tabs, there is a section for 'Software Components' with an 'Export to Spreadsheet' button. A table lists the software components:

Vendor	Name
sap.com	ADSSAP
sap.com	AJAX-RUNTIME
sap.com	BASETABLES
sap.com	BI-WDALV

- Search for SFTP as following screen shot

System Information

Components Info

Software Components

Export to Spreadsheet

Vendor	Name	Version	Location
sap.com	PIB2B_SFTP	1000.1.0.0.0.20120308205400	SAP AG

If you are able to find the Component Name “PIB2B_SFTP”. That means PI server is successfully deployed with SAP PI SFTP PGP ADDON.

You also need to check that SFTP Application is started from NWA->Operations->Start & Stop->Java Applications

Java Instances

Java Services

Java Applications

Application List

Retrieve Status: On

Start

Stop

Restart

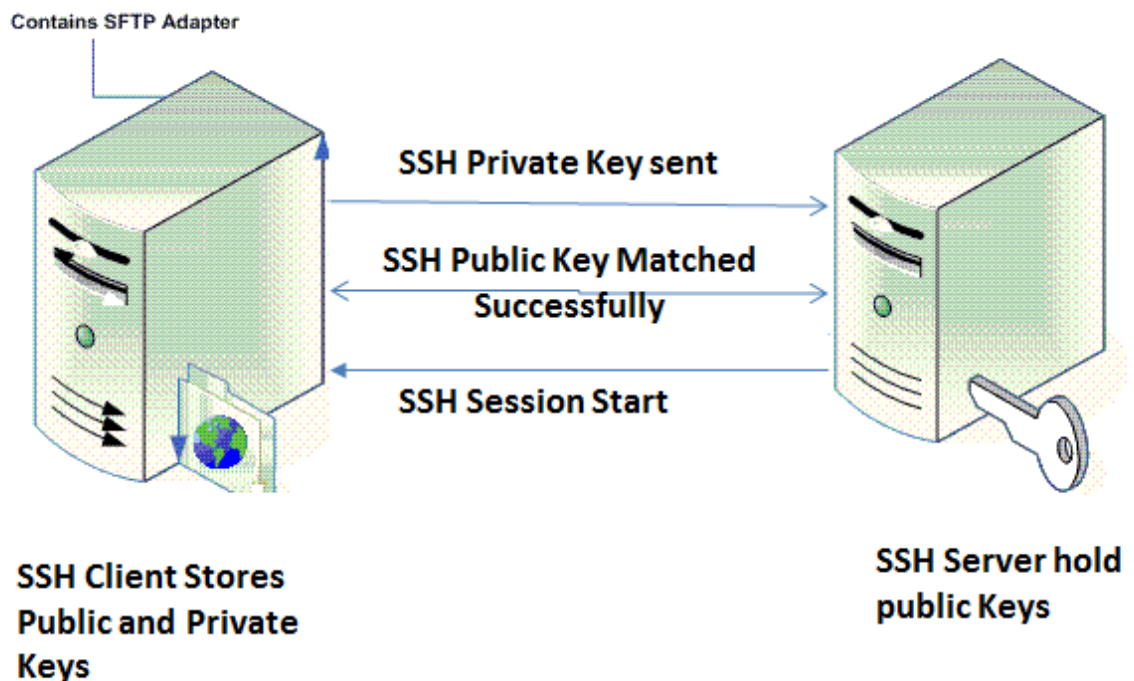
More Actions

Name	Vendor	Status
sftp		
com.sap.aii.adapter.sftp.app	sap.com	Started

4. Step-by-Step Procedure

Authentication in the SAP PI SFTP adapter to SFTP server may be achieved in two ways

- Password based Authentication: Password based authentication is generally the easiest to try first, although some SFTP servers are set up to disallow password authentication, in which case the connection attempt will fail unless password authentication is enabled in the server.
- Private Key (Certificate) based Authentication: In certificate based authentication, SSH clients and servers authenticate each other via public/private key pairs. Each must have access to their own private key, and other's public key. Following picture explain the process of Key based authentication in SFTP.



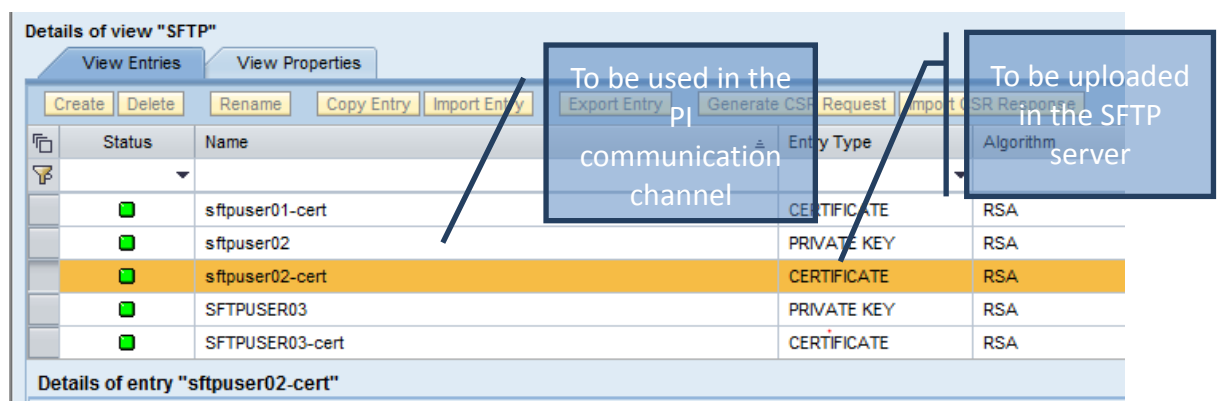
Key Based Authentication in SSH

In case of Private Key based authentication to SFTP server, follow the steps mentioned in section 4.1 and 4.2

4.1 Generating Certificates

1. Generate Private and Public Certificate in PI System and Extract Public certificate

Generate and Extract the public X.509 Certificate from SAP PI NetWeaver Administrator -> Configuration -> Certificates and Keys using Button "Export Entry"



2. Convert Public PI X.509 certificated into SSH compatible public key.

Since PI NWA key storage doesn't support SSH keys for Private key based authentication, OpenSSL utility is required convert SSL keys to SSH keys and vice versa. OpenSSL can be installed separately in SFTP server.

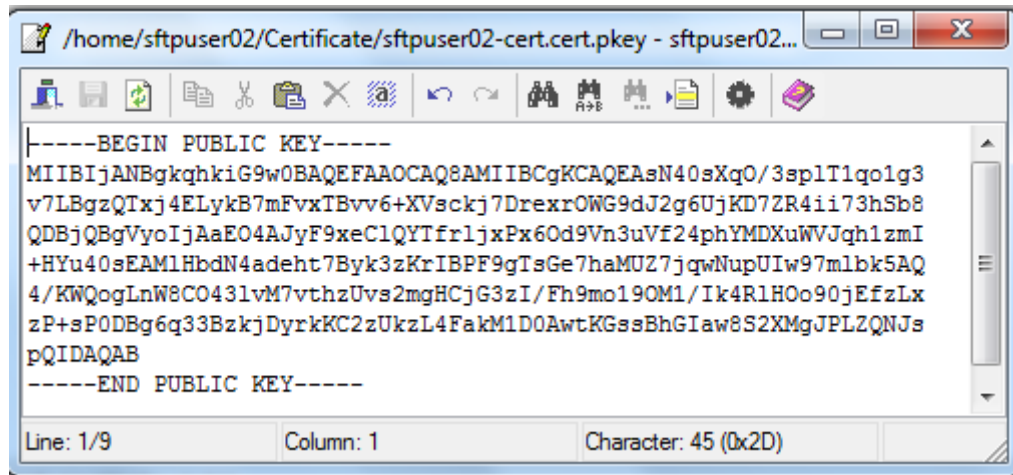
To import the public key in SSH compatible SFTP server. First convert the PI X.509 certificate into SSH based public key. PuTTY can use as client software to connect to SFTP server. It works as command prompt screen to execute key convert commands provided by OpenSSL. Conversion can take place in two steps.

- Convert X.509 Certificate into Open SSL based certificate. We can use following command in SSH based client like putty

`openssl x509 -in {X.509 Certificate}.cert -noout -pubkey > {Open SSL based certificate}.pkey`

```
sftpuser02@INST50089688E ~/Certificate
$ openssl x509 -in sftpuser02-cert.cert -noout -pubkey > sftpuser02-cert.cert.pkey
```

File generated from above command.



The screenshot shows a text editor window titled "/home/sftpuser02/Certificate/sftpuser02-cert.cert.pkey - sftpuser02...". The text content is as follows:

```
-----BEGIN PUBLIC KEY-----
MIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAsN40sXqO/3splT1qo1g3
v7LBgzQTxj4ELykB7mFvxTBvv6+XVscKj7DrexrOWG9dJ2g6UjKD7ZR4ii73hSb8
QDBjQBgVyoIjAaEO4AJyF9xeClQYTfr1jxPx6Od9Vn3uVf24phYMDXuWVJqh1zmI
+HYu40sEAM1HbdN4adeht7Byk3zKrIBPF9gTsGe7haMUZ7jqwNupUIw97mlbk5AQ
4/KWQogLnW8CO43lvM7vthzUvs2mgHCjG3zI/Fh9mo19OM1/Ik4R1HOo90jEfcLx
zP+sP0DBg6q33BzkjDyrkKC2zUkzL4FakM1D0AwtKGssBhGIaw8S2XMgJPLZQNJs
pQIDAQAB
-----END PUBLIC KEY-----
```

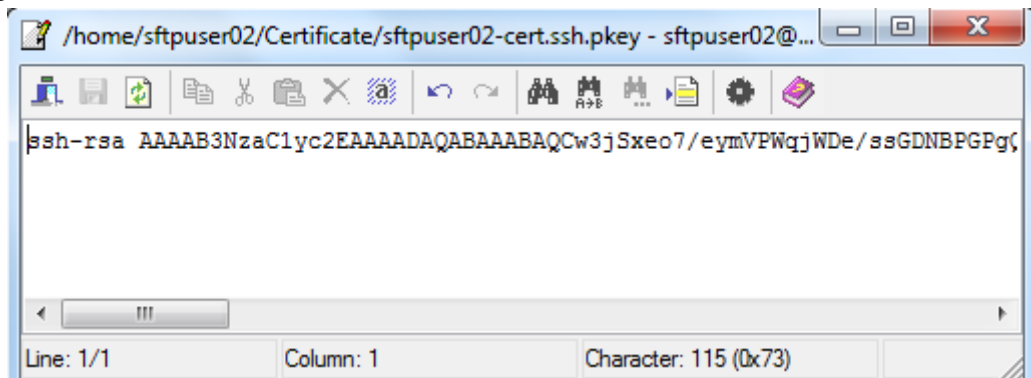
The status bar at the bottom indicates "Line: 1/9", "Column: 1", and "Character: 45 (0x2D)".

- Convert Open SSL Based certificate into SSH based certificate. We can use following command in SSH based client like putty.

`ssh-keygen -i -m PKCS8 -f {Open SSL based certificate}.pkey > {SSH based certificate}.pkey.pkey`

```
sftpuser02@INST50089688E ~/Certificate
$ ssh-keygen -i -m PKCS8 -f sftpuser02-cert.cert.pkey > sftpuser02-cert.ssh.pkey
```

File generated from above command.

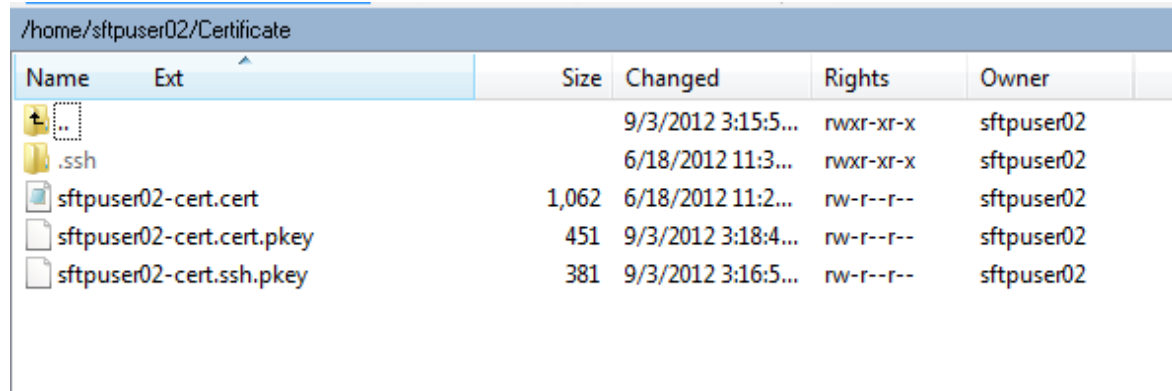


The screenshot shows a text editor window titled "/home/sftpuser02/Certificate/sftpuser02-cert.ssh.pkey - sftpuser02@...". The text content is as follows:

```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAw3jSxco7/eymVPWqjWDe/ssGDNBPgPgC
```

The status bar at the bottom indicates "Line: 1/1", "Column: 1", and "Character: 115 (0x73)".

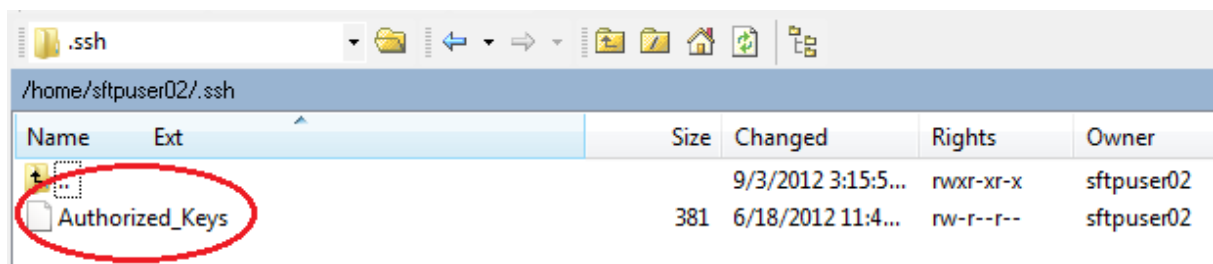
Following Keys are generated in SFTP directory from above commands.



Name	Ext	Size	Changed	Rights	Owner
..			9/3/2012 3:15:5...	rw-r-xr-x	sftpuser02
.ssh			6/18/2012 11:3...	rw-r-xr-x	sftpuser02
sftpuser02-cert.cert		1,062	6/18/2012 11:2...	rw-r--r--	sftpuser02
sftpuser02-cert.cert.pkey		451	9/3/2012 3:18:4...	rw-r--r--	sftpuser02
sftpuser02-cert.ssh.pkey		381	9/3/2012 3:16:5...	rw-r--r--	sftpuser02

4.2 Import PI public certificate in SFTP Server


SAP PI converted public key must be registered with the SSH server, typically by copying it into the server's *authorized_keys* file.

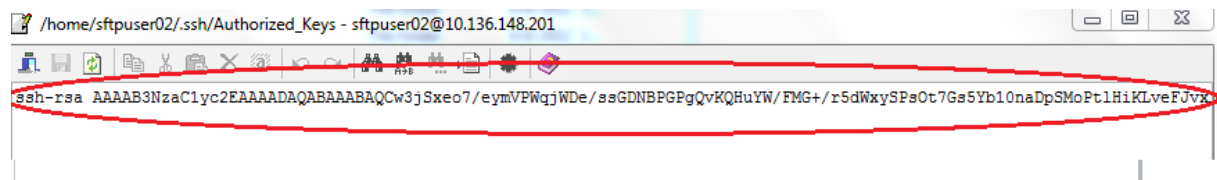


Name	Ext	Size	Changed	Rights	Owner
..			9/3/2012 3:15:5...	rw-r-xr-x	sftpuser02
Authorized_Keys		381	6/18/2012 11:4...	rw-r--r--	sftpuser02

Keys are imported in user folder: <user>/ssh as shown in above screen shot and this user would be used while making connection to SFTP server.

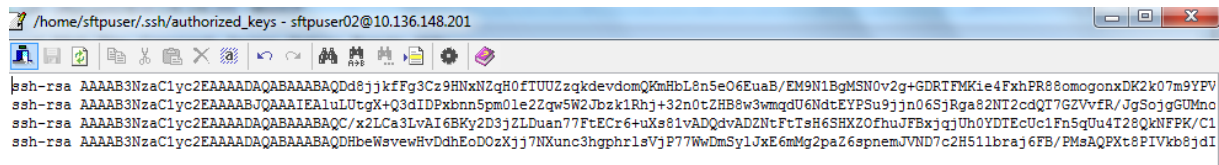
Go to the root folder of the user account & check for the folder '.ssh'. Create one, if the folder does not exist. Check for the file - 'authorized keys', Create one if it's not available.

 Note: The key in the file must be entered in exactly one line. Please refer to the screen shot below.



```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAw3jSxao7/eymVPWqjWDe/ssGDNBPGPgQvKQHUYW/FMG+/z5dWxySPsOt7Gs5Yb10naDpSMoPt1HiKLveFJvX
```

If server need to authorise multiple public key for particular user, Paste the public key content in new line as following screen shot.

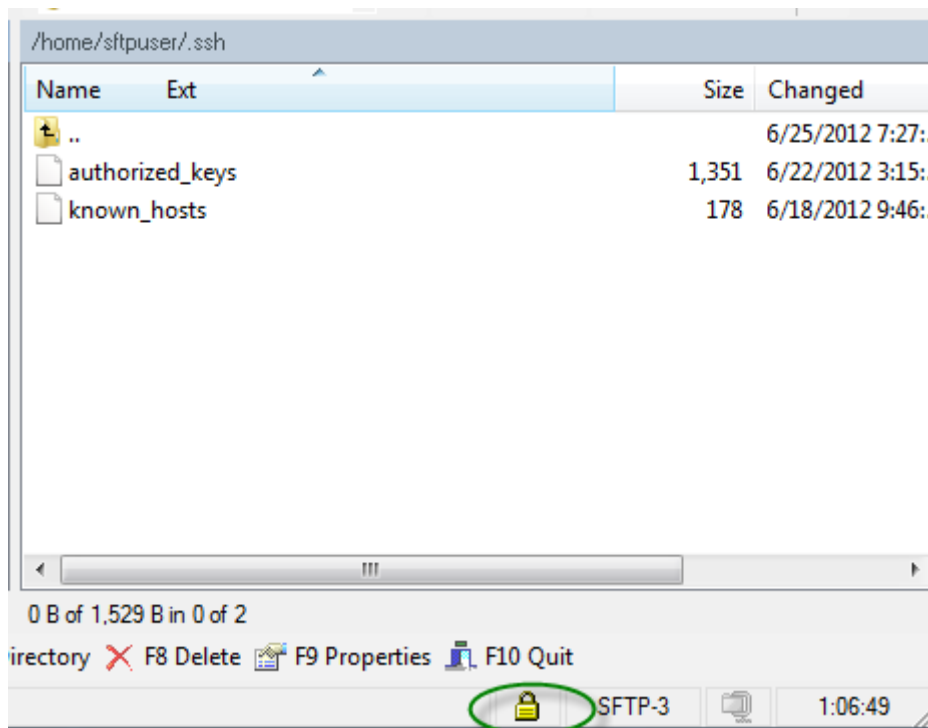


A terminal window titled "/home/sftpuser/.ssh/authorized_keys - sftpuser02@10.136.148.201". The terminal displays the content of the authorized_keys file, which consists of three lines of SSH public keys. Each line starts with "ssh-rsa" followed by a long alphanumeric string representing the public key.

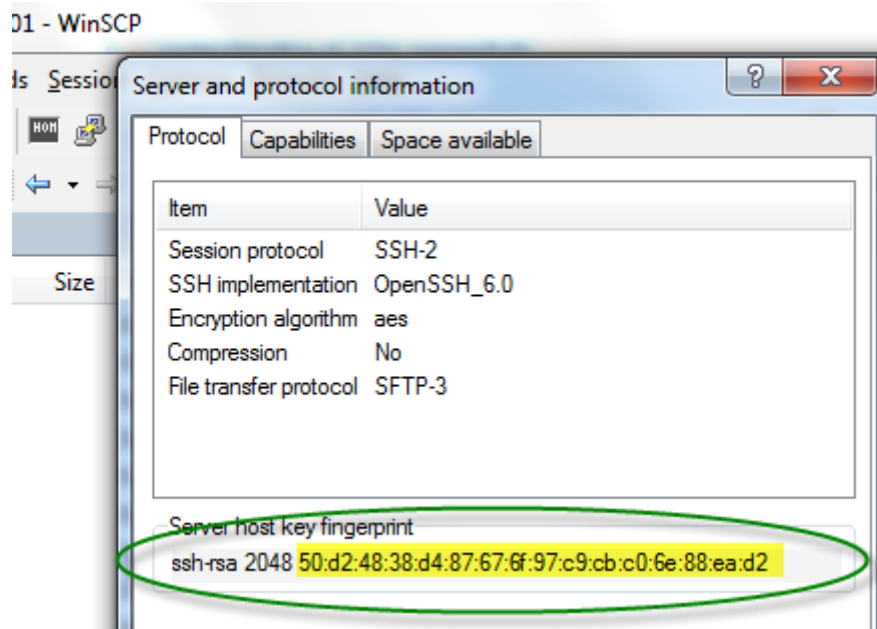
4.3 Configuring SFTP Sender Adapter

The sender Communication channel can be configured as follows

1. Enter the SFTP Server and Port details. The default port SFTP is 22. (in this document port 9222 is being used)
2. Enter the sever Fingerprint. The fingerprint is generally provided by your SFTP Server Admin. Alternatively, to retrieve the fingerprint, you can use one of the SFTP Client in our case we have used WinSCP. Click on the lock icon on the as shown below



You can see the fingerprint as highlighted below



As discussed above, Authentication can be of two types – Password or Private Key.
In case password is used, you will have to provide the user id and password for the SFTP server.

Edit Communication Channel

Communication Channel: SFTP_Dummy_02_Sender

Party:

Communication Component: SFTP_File_Server

Description:

Parameters **Identifiers** **Module**

Adapter Type * SFTP http://sap.com/xi/XI/SFTP SFTP ADAPTER 1.0

☒ Sender ☐ Receiver

Transport Protocol * SFTP

Message Protocol * File

Adapter Engine * Central Adapter Engine

Source **Processing** **Advanced**

SFTP Server

Server * 10.136.148.201

Port * 9222

Timeout (ms) * 30000

Server fingerprint * 50:d2:48:38:d4:87:67:6f:97:c9:cb:c0:6e:88:ea:d2

Proxy

Proxy * No Proxy

Authentication

Authentication method * Password

Username * sftpuser02

Password *

File

Filename * employeeedata.txt

Directory * ~/input/

☐ Additional file(s)

5. In this case, we have used Private Key as the authentication method. You can get the key from the system administrator. However, section 4.1 describes the generation of certificates and Private key using Key storage in PI

Display Communication Channel Status: **Active**

Communication Channel: **SFTP_Dummy_02_Sender**

Party:

Communication Component: **SFTP_File_Server**

Description:

Parameters **Identifiers** **Module**

Adapter Type * **SFTP** **http://sap.com/xi/XI/SFTP** **SFTP ADAPTER 1.0**

☒ Sender ☐ Receiver

Transport Protocol * **SFTP**

Message Protocol * **File**

Adapter Engine * **Central Adapter Engine**

Source **Processing** **Advanced**

SFTP Server

Server * **10.136.148.201**

Port * **9222**

Timeout (ms) * **30000**

Server fingerprint * **50:d2:48:38:d4:87:67:6f:97:c9:cb:c0:6e:88:ea:d2**

Proxy

Proxy * **No Proxy**

Authentication

Authentication method * **Private Key**

Username * **sftpuser02**

Private Key View * **SFTP**

Private Key Entry * **sftpuser02**

File


Filename * **employeeedata.bt**

Directory * **~/input/**

4.4 Configuring Receiver Adapter

To Configure the receiving channel,

1. Enter the receiver SFTP server and port details.
2. Enter the fingerprint of the SFTP. The fingerprint may be retrieved as mentioned in section 4.3
3. In case user based authentication method is used enter the user name and password for the SFTP server.

 **Edit Communication Channel**

Communication Channel	SFTP_Dummy_02_Receiver		
Party			
Communication Component	SFTP_File_Server		
Description			

Parameters | Identifiers | Module

Adapter Type *	SFTP	http://sap.com/xi/XI/SFTP	SFTP ADAPTER 1.0
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver			
Transport Protocol *	SFTP		
Message Protocol *	File		
Adapter Engine *	Central Adapter Engine		

Destination | Processing | Advanced

SFTP Server

Server *	10.136.148.201
Port *	9222
Timeout (ms) *	30000
Server fingerprint *	50:d2:48:38:d4:87:67:6f:97:c9:cb:c0:6e:88:ea:d2

Proxy

Proxy *	No Proxy
---------	----------

Authentication

Authentication method *	Password
Username *	sftpuser02
Password *

File parameter

Filename *	employeedata.txt
Filepath *	~/output/

☐ Create Directory

- In case the certificate based authentication method is used in the receiver channel, enter the User name and the key view / Key details in the authentication section
Enter the name and directory of the file to be created.

Display Communication Channel St

Communication Channel	SFTP_Dummy_02_Receiver		
Party			
Communication Component	SFTP_File_Server		
Description			

Parameters **Identifiers** **Module**

Adapter Type *	SFTP	http://sap.com/xi/XI/SFTP	SFTP ADAPTER 1.0
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver			
Transport Protocol *	SFTP		
Message Protocol *	File		
Adapter Engine *	Central Adapter Engine		

Destination **Processing** **Advanced**

SFTP Server

Server *	10.136.148.201
Port *	9222
Timeout (ms) *	30000
Server fingerprint *	50:d2:48:38:d4:87:67:6f:97:c9:cb:c0:6e:88:ea:d2

Proxy

Proxy *	No Proxy
---------	----------

Authentication

Authentication method *	Private Key
Username *	sftpuser02
Private Key View *	SFTP
Private Key Entry *	sftpuser02

File parameter

Filename *	outputsftpuser02.txt
Filepath *	~/output

4.5 End to End SAP PI Configuration

For Demo purpose we have configured the scenario to pick the file from SFTP server and drop to SFTP server. We have taken dummy interface name in scenario as Scenario doesn't involve any message mapping. Please find the screen shot below for Integrated Configuration Object of SAP PI.

Display Integrated Configuration Status: Active Displayed Language: English (O

Sender

Communication Party:

Communication Component: SFTP_File_Server

Interface: Dummy

Namespace: Dummy.com

Receiver

Communication Party:

Communication Component:

Description:

Inbound Processing | **Receiver** | Receiver Interfaces | Outbound Processing | Assigned Users

Configuration for Interface Dummy

Communication Channel *: SFTP_Dummy_02_Sender

Adapter Type: SFTP http://sap.com/xi/XI/SFTP SFTP ADAPTER 1.0

Adapter Engine: Central Adapter Engine

Software Component Version of Sender Interface:

Schema Validation: ☒ No Validation ☐ Validation by Adapter

Display Integrated Configuration Status: Active Displayed Language: English (

Sender

Communication Party:

Communication Component: SFTP_File_Server

Interface: Dummy

Namespace: Dummy.com

Receiver

Communication Party:

Communication Component:

Description:

Inbound Processing | **Receiver** | Receiver Interfaces | Outbound Processing | Assigned Users

Configured Receivers

Condition	Communication Party	Communication Component *
		SFTP_File_Server

Display Integrated Configuration Status: **Active** Displayed Language: **Eng**

Sender

Communication Party:
Communication Component: **SFTP_File_Server**
Interface: **Dummy**
Namespace: **Dummy.com**

Receiver

Communication Party:
Communication Component:
Description:

Inbound Processing **Receiver** **Receiver Interfaces** **Outbound Processing** **Assigned Users**

Receiver

Type	Party	Communication Component
Communication Component		SFTP_File_Server

Receiver Interfaces *

Condition	Operation Mapping	Name *	Namespace *	Software Component V...	Multiplicity
		Dummy	Dummy.com		

Display Integrated Configuration Status: **Active** Displayed Language: **Er**

Sender

Communication Party:
Communication Component: **SFTP_File_Server**
Interface: **Dummy**
Namespace: **Dummy.com**

Receiver

Communication Party:
Communication Component:
Description:

Inbound Processing **Receiver** **Receiver Interfaces** **Outbound Processing** **Assigned Users**

Configuration for Interface Dummy | Dummy.com

Communication Channel *: **SFTP_Dummy_02_Receiver**

Adapter Type: **SFTP** **http://sap.com/xi/XI/SFTP** **SFTP ADAPTER 1.0**

Adapter Engine: **Central Adapter Engine**

Software Component Version of Receiver Interface:

Schema Validation: ☒ No Validation ☐ Validation by Adapter

Header Mapping

☐ Sender Communication Party:

4.6 Testing Scenario

Place the file with name “employeeedata” in “input” directory for SFTP Server.

/home/sftpuser02/input					
Name	Ext	Size	Changed	Rights	Owner
..			9/3/2012 3:15:5...	rw-r--r--	sftpuser02
employeeedata.txt		16	9/3/2012 4:26:4...	rw-r--r--	sftpuser02

SAP PI Log:

Delivered		04.09.2012 05:03:11....	04.09.2012 05:08:26....	SFTP_File_Server		SFTP_File_Server	Dumm
Delivered		04.09.2012 04:53:06....	04.09.2012 05:08:26....	SFTP_File_Server		SFTP_File_Server	Dumm

Message Details		
Message Details	Message Content	Message Log
Time	Status	Description
04.09.2012 05:08:26.253	Information	Path is /home/sftpuser02/output/
04.09.2012 05:08:26.322	Information	send employeeedata_20120904-103826-244.txt to /home/sftpuser02/output/
04.09.2012 05:08:26.329	Information	Message was successfully processed by the JCA adapter
04.09.2012 05:08:26.338	Information	Message was successfully transmitted to endpoint <local> using connection SFTP_http://sap.com/xi/XISFTP
04.09.2012 05:08:26.351	Information	Message status set to DLVD

Check the “output” folder in SFTP Directory

/home/sftpuser02/output					
Name	Ext	Size	Changed	Rights	Owner
..			9/3/2012 3:15:5...	rw-r--r--	sftpuser02
employeeedata_20120904-103826-244.txt		16	9/4/2012 10:38:...	rw-r--r--	sftpuser02
employeeedata_20120904-103826-280.txt		16	9/4/2012 10:38:...	rw-r--r--	sftpuser02

5. Appendix

Appendix A – Related SAP Notes

[Note 1692819 - FAQ: PI SFTP Adapter](#)

Appendix B - Support Components

If you experience problems with the installation of this product, any issues with the configurations or require any other information related to secure connectivity add-on (SFTP Adapter and PGP Module), please create a customer message on the SAP Service Marketplace at <http://service.sap.com/message> or in SAP GUI under component:

BC-XI-CON-SFT – SFTP Adapter and PGP Module