

## SFTP Connection

### *A global file transfer protocol*

SSH File Transfer Protocol (SFTP) is a network protocol that provides secure file transfers.

SFTP is based on the SSH protocol and is not the same as FTPS which is based on FTP and SSL

This protocol provides secure file transfer. It is designed so that it could be used to implement a secure remote file system service as well as a secure file transfer service.

#### Benefits

- Easy, automatic and low cost transferring of files
- High security with encryption
- Covers global and local file formats
- SFTP is available 24/7 except for planned maintenance.

#### What is needed

- SFTP client for sending files.
- SFTP server to receive files.
- Nordea does not provide any software or hardware.
- Technical competence at the customer's side is needed in order to set up a server-to-server connection.

#### Supported formats

- ISO 20022 XML
- EDIFACT D96A
- SWIFT messages
- Local Norwegian and Swedish file types

#### Technical information

The SFTP communication is routed over the public Internet using a static public IP address on both sides. No addresses from the private address space (RFC 1918) can be used.

All files are sent as binary files. In order to avoid character problems, the files must be represented in accordance with ISO 8859-1 before sending.

SFTP supports PUSH – PUSH. Sender is active partner in connections. GET is not supported.

Parameter	Options
Digital certificates	RSA (preferred) or DSA
Encryption	SSH
Transport protocol	SFTP
Port	22 (default), other ports can be used
Automatic retry	Software dependent
SSH Encryption algorithm	AES128-ctr, AES192-ctr, AES256-ctr, AES128-gcm@openssh.com, AES256-gcm@openssh.com
Physical connectivity	Internet
Security	SSH-2 secure shell
Key length	2048
Software client options	Any SFTP capable software that supports SSH-2
File name retention	File names are exchanged during the setup

#### Security

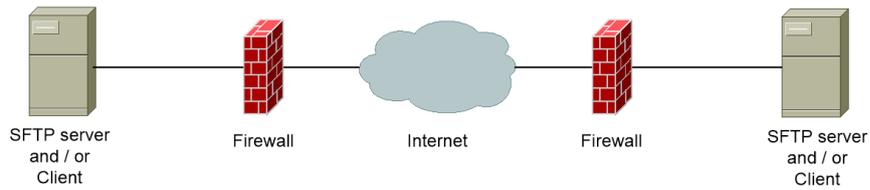
The sender must generate an SSH2/DSA or RSA key pair for authentication of the connection. IP addresses, filenames and public keys are exchanged.

Each file is assigned a unique file name with a unique timestamp for each new file. File tampering protection is supported.

Files are transferred to Nordea with SFTP by specifying a user name, authentication key and destination file name.

Abbreviations	Explanation
AES	Advanced Encryption Standard
DSA	Digital signature algorithm
FTP	File Transfer Protocol
SFTP	SSH File Transfer Protocol
SSH	Secure Shell network protocol
SSL	Secure Sockets Layer

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### How to proceed

Contact your local account manager or cash management specialist to get further information and details about the SFTP connection.

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