

## Getting Started using MoveItFreely FTPS Command line Client to the SCO mainframe

For replacing command line clients, such as Windows built-in FTP, which is used in many automated FTP scripts to the SCO mainframe, the SCO suggests the MoveItFreely FTPS product. This new freeware secure command line ftp client is designed to be a drop in solution for upgrading Windows scripts using command line FTP. All interactive FTP commands should be the same as standard Windows FTP.

You can download this product here: (<https://www.sco.idaho.gov/ViewerFiles/Downloads/moveitfreelyportable.zip>) It unzips to include the following files/directories: *doc* (manuals), *readme.txt*, and *ftps.exe*. Simply take the file *ftps.exe* and put it in C:\WINDOWS on your workstation or server (or another desired place in your PATH system variable), and you are ready to use it. Here are the basics of use:

### Standard unsecure interactive ftp session like Windows FTP

```
C:\> ftps ftp.sco.idaho.gov
```

### Secure interactive FTPS session

```
C:\> ftps -e:on -z -a -natpasv ftp.sco.idaho.gov
```

- **-e:on** encrypts both control and data with the AUTH TLS and PROT P commands. ("explicit")
- **-z** sets the client to not warn about problems with FTP server certificates, instead accepting any certificate. By default, if there is a problem with a certificate, MOVEit Freely will display a dialog, asking whether you want to accept the certificate. The most common problem is that a certificate was issued by a non-trusted certification authority, as happens with self-signed certificates.
- **-a** starts the program in passive mode, a must for secure FTP.
- **-natpasv** ignores the IP address in the PASV reply in "Client NAT" mode when in passive FTP mode, and instead, uses the address of the control connection, another must for secure FTP in NAT environments.

### Secure batch FTPS session running from script file

```
C:\> ftps -e:on -z -a -natpasv -s:C:\yourftpscommands.txt
```

Sample yourftpscommands.txt file syntax:

open ftp.sco.idaho.gov	(connect to server)
username	(username here)
password	(password here)
prompt	(this disables prompting since this is batch)
lcd C:\reportexports	(Any remote or local change directory lines here..cd or lcd)
quote site recfm=fb lrecl=137 blksize=2740	(Any specific dataset size parameters here)
get 'XAA.TEST.TEST'	(any file transfer lines here, <b>datasets surrounded by single quotes</b> )
put c:\data\filename.txt 'xaa.abc.dataset1'	(example put syntax)
get 'xaa.bbbccc.dataset(member1)'	(example syntax for PDS datasets in get or put)
put c:\data\filename.txt 'xaa.abc.dataset1(+1)'	(example syntax for GDG in get or put)
quit	

For more information and parameter explanations of the available command line parameters of the MoveItFreely FTPS product, consult the users manual provided with the zip file, in the *doc* folder.

Steps to automate an FTPS transfer to the SCO mainframe:

1. Download and put in place the "ftps.exe" file (from the MoveItFreelyFTP zip) on the server or workstation where you want to automate this FTP, preferably somewhere in the SYSTEM PATH.
2. Write a FTP command file and save it as "ftptosco.txt" or something like it. Use the example of the ftp commands above that should be in the file.
3. Put the following in a batch file named FTPTOSCO.bat or something like it. The following text should be in the batch file: (put the correct path to your ftptosco.txt file you saved in the previous step)

```
ftps -e:on -z -a -natpasv -s:C:\ftptosco.txt
```

4. Schedule the Batch file to run using Windows Scheduled Tasks at a specified time. You are now automated.