

State of Michigan Data Exchange Gateway

SSLFTP/SFTP client setup

SSLFTP/SFTP (WsFTP) Setup for the State of Michigan Data Exchange Gateway (DEG)

This is not a user doc on how to setup SSLFTP clients because this document can't cover all possible software that can be used as a client. This document gives the basic information needed for a user who is knowledgeable in the use of their SSLFTP/SFTP client software to set up their client. This document uses the WS-FTP 2007 as an example of how the setup information may be entered in a client software package. It is not a WS-FTP user guide or even a WS-FTP setup guide.

This is the WsFTP PRO SSLFTP/SFTP client setup to use with the State of Michigan Data Exchange Gateway (DEG) . This setup is configured to use SSL.

Use IP address 136.181.135.38

SSLFTP is port 11250 and data port 11200-11240

Note: You may need to open ports 11200-11240 in your firewall.

SFTP is port 2222

WsFTP Pro Version 2007

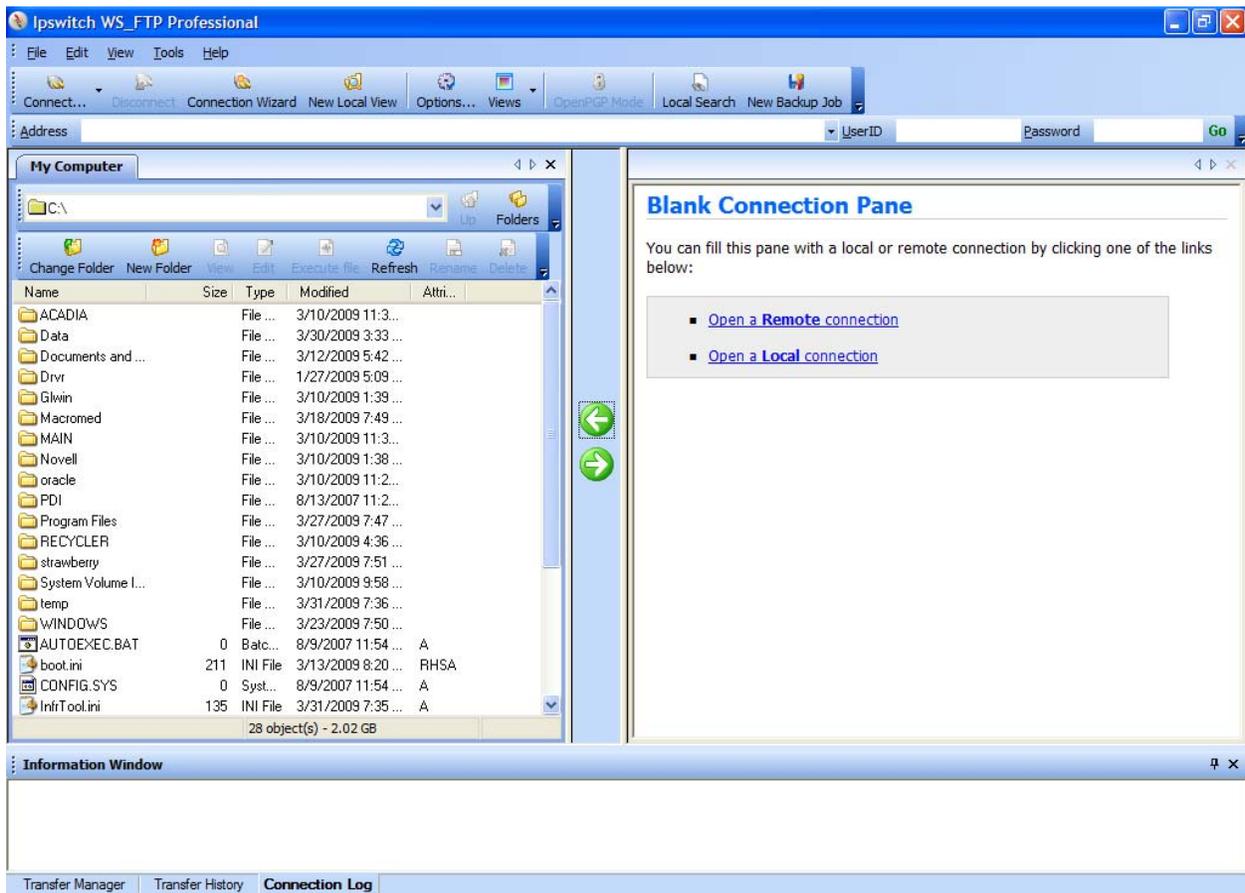
You will need a wsftp version that supports SSLFTP/SFTP.

NOTE about Passwords:

Currently all passwords are converted to upper case, regardless of what is entered. Please enter all passwords in Upper Case. In the future the DEG passwords may become case sensitive in which case, a password entered with lower case will fail to match the stored password. If you always use upper case password until notified that lower case passwords are usable then you will not have any problems when there is a change. This is very important if you are automating your connection with a program or script file.

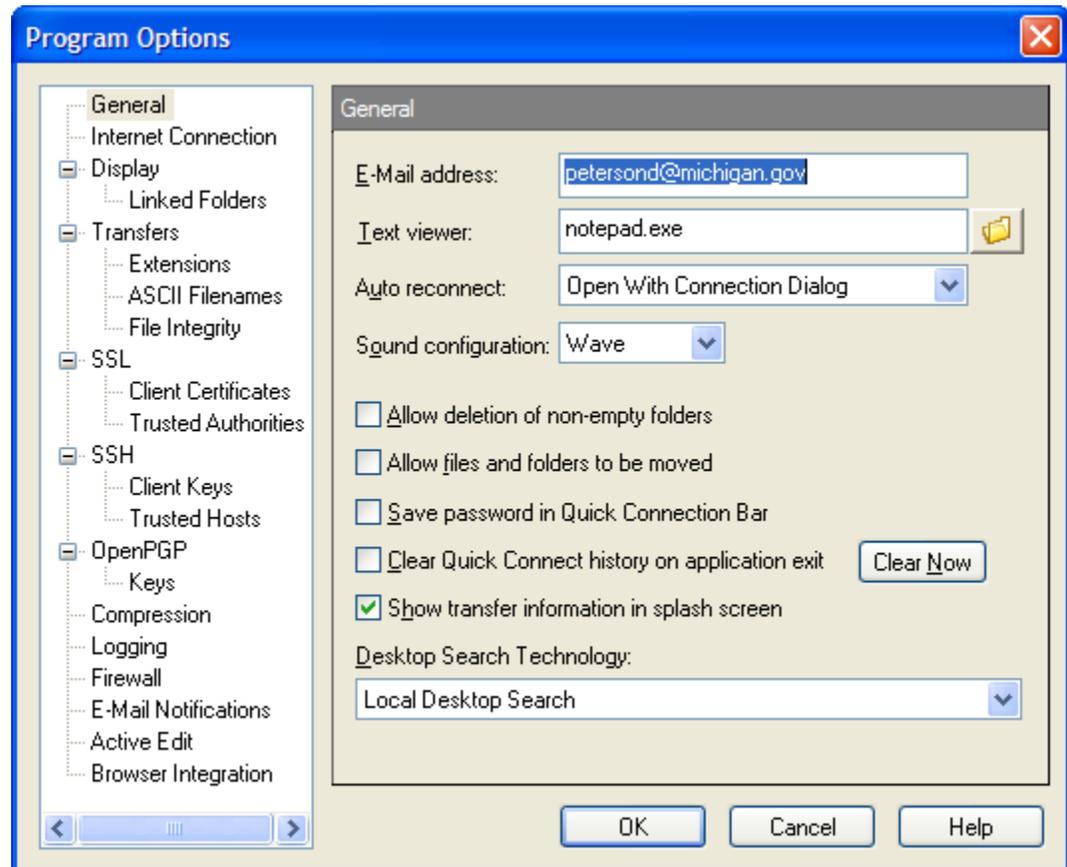
Main WsFTP Screen

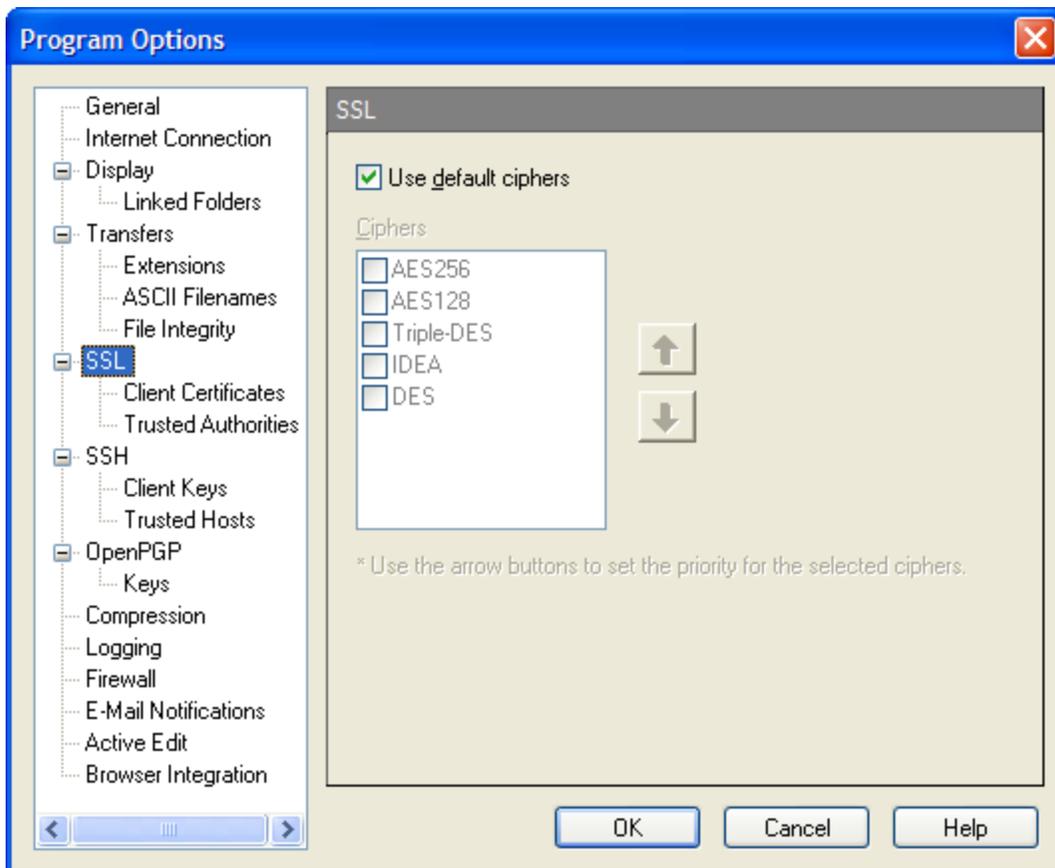
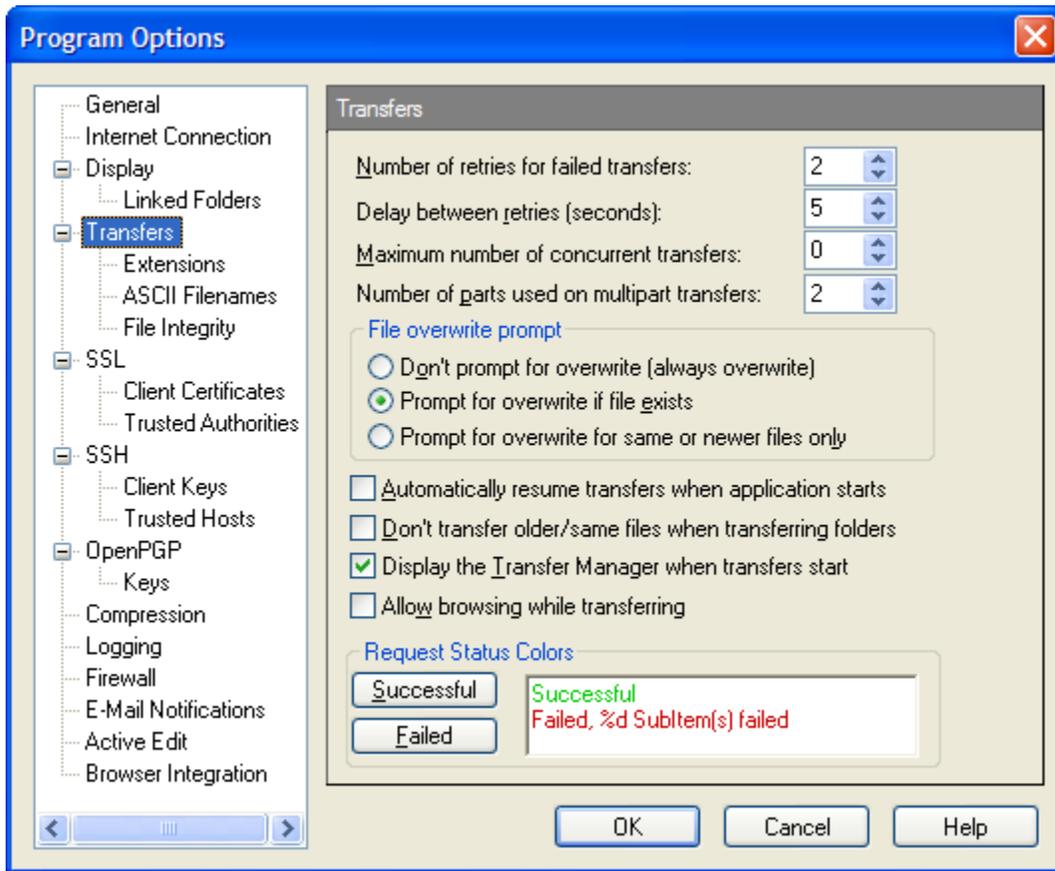
WsFTP Professional Version 2007

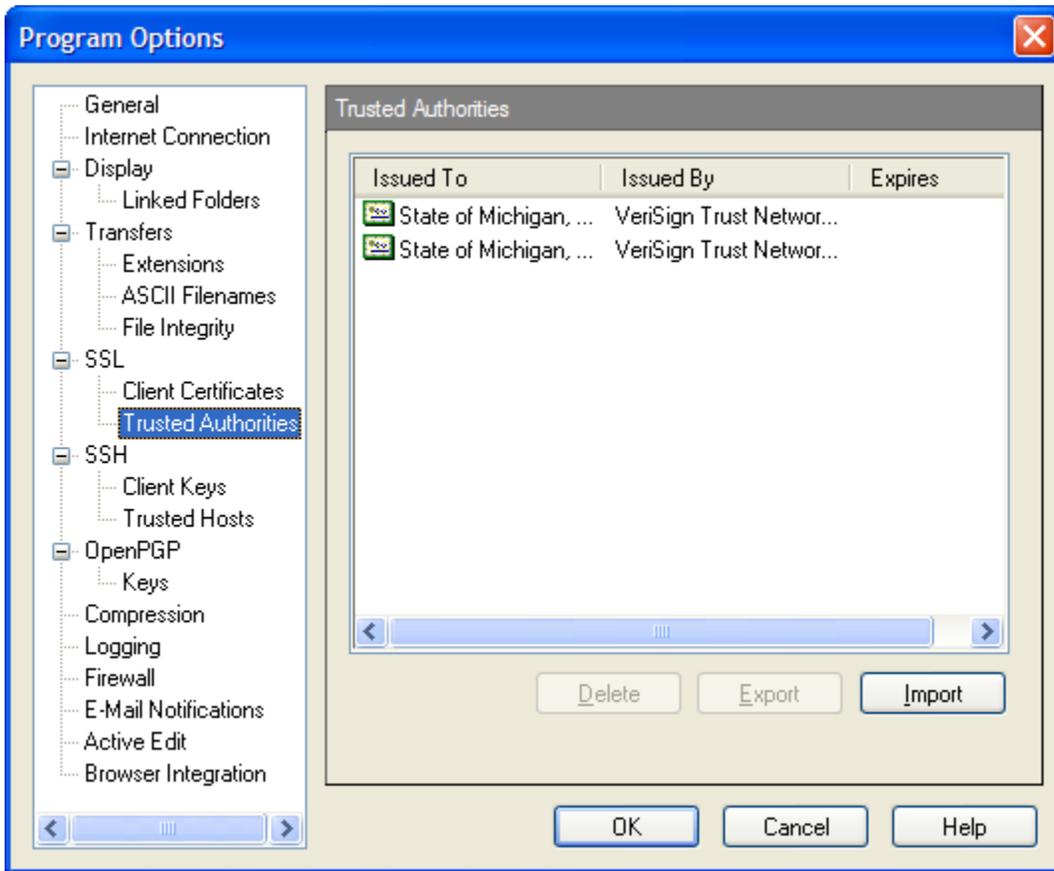


Options Menu > Program Options

Program Options Version 2007







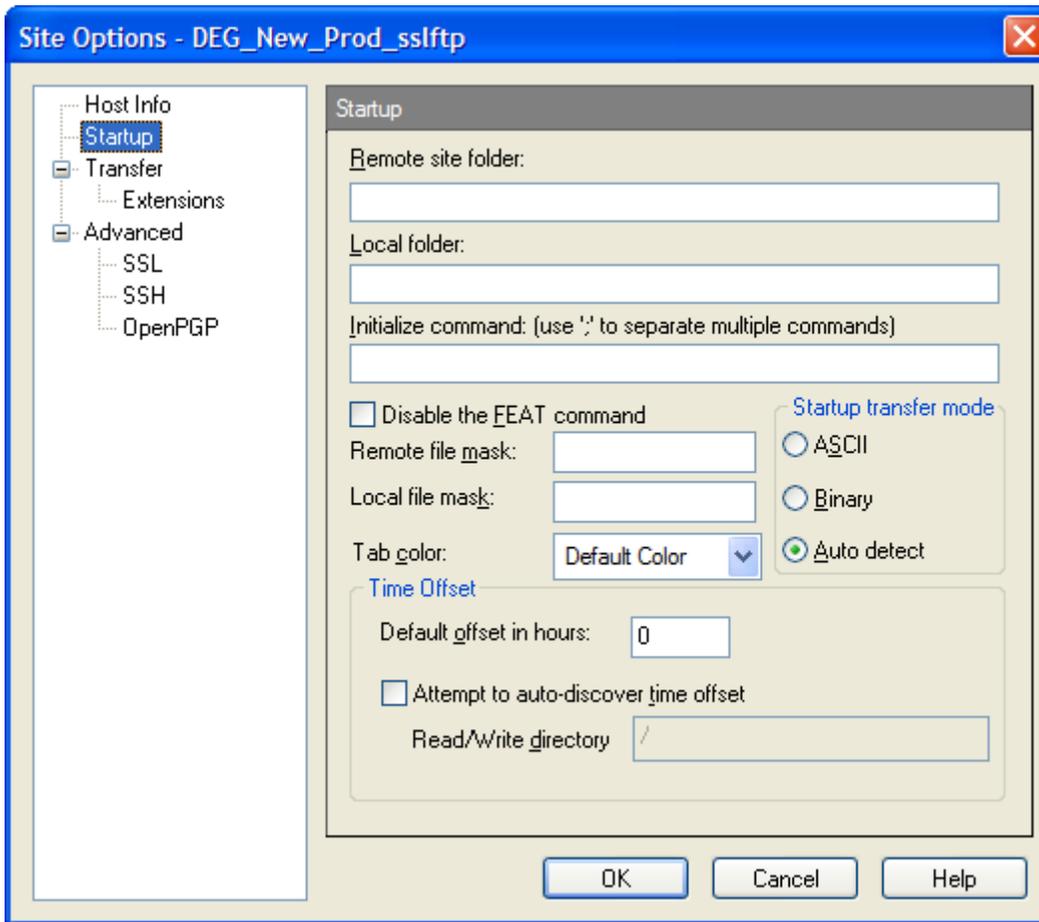
EXAMPLE OF SITE SETUP for SSLFTP

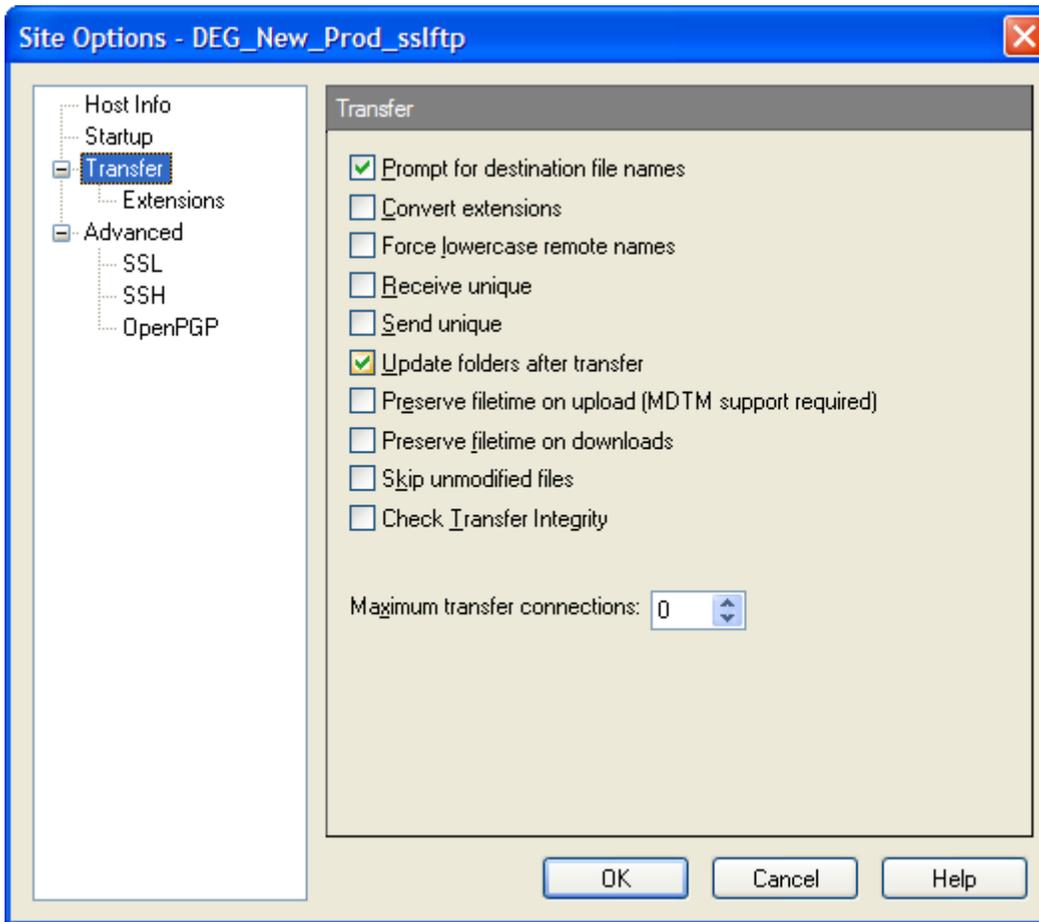
WsFTP Professional Version 2007

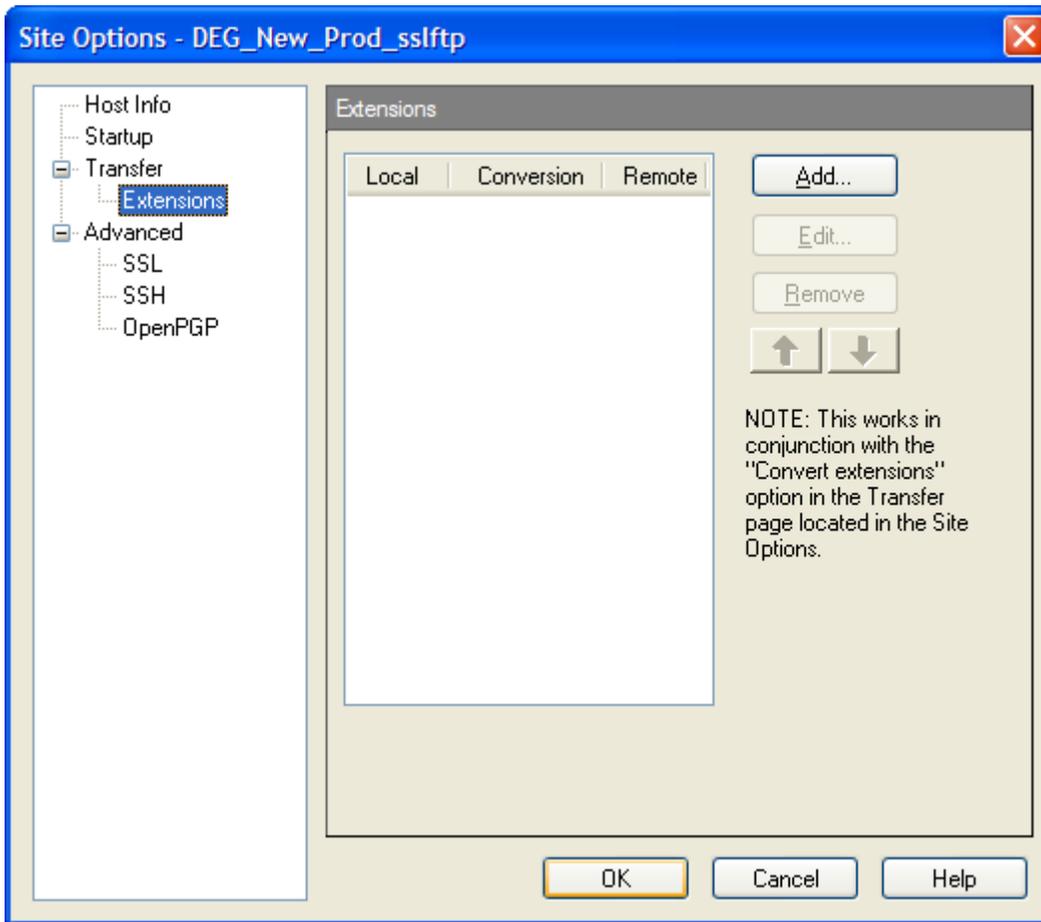
The image shows a screenshot of the 'Site Options' dialog box in WsFTP Professional Version 2007. The dialog box is titled 'Site Options - DEG_New_Prod_sslftp' and has a close button in the top right corner. On the left side, there is a tree view with the following items: Host Info (selected), Startup, Transfer, Extensions, Advanced, SSL, SSH, and OpenPGP. The main area of the dialog box is titled 'Host Info' and contains the following fields and options:

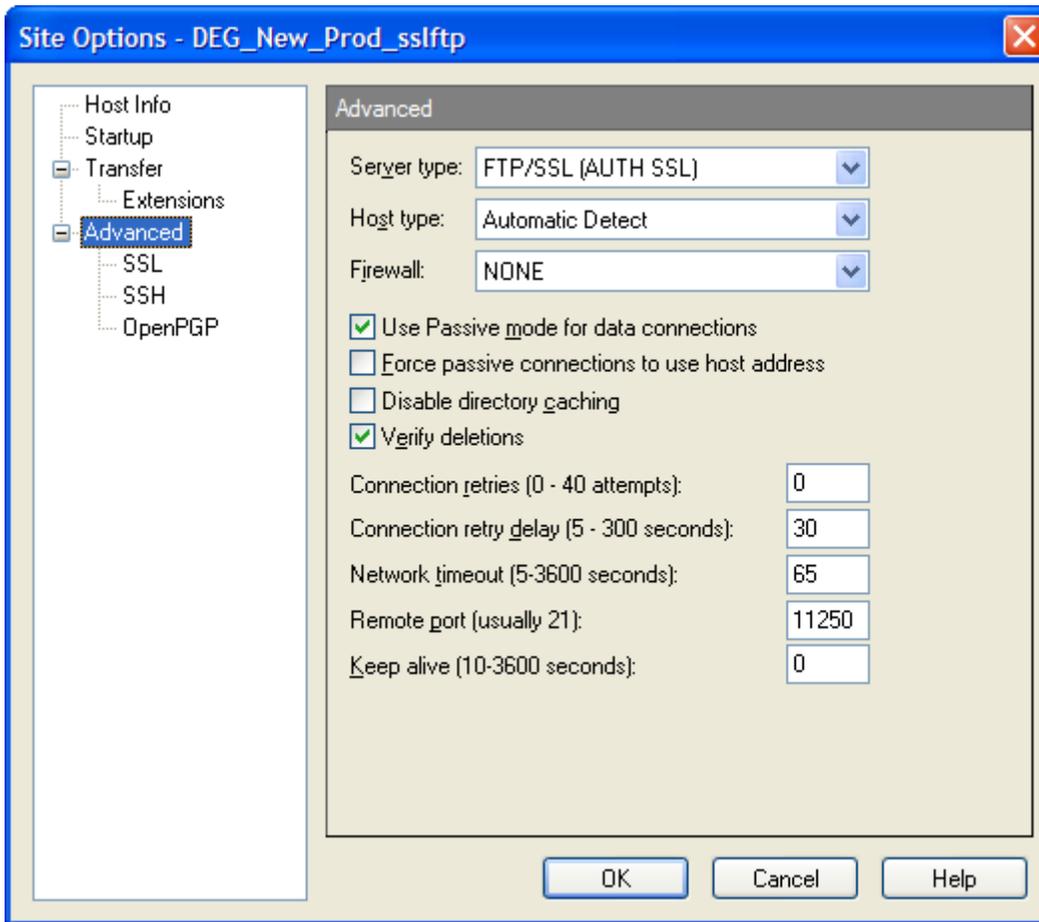
- Site Name: DEG_New_Prod_sslftp
- Host name: 136.181.135.38
- UserID: test
- Password: [masked with 8 asterisks] Save password
- Account: [empty] Save account
- Comment: [empty]

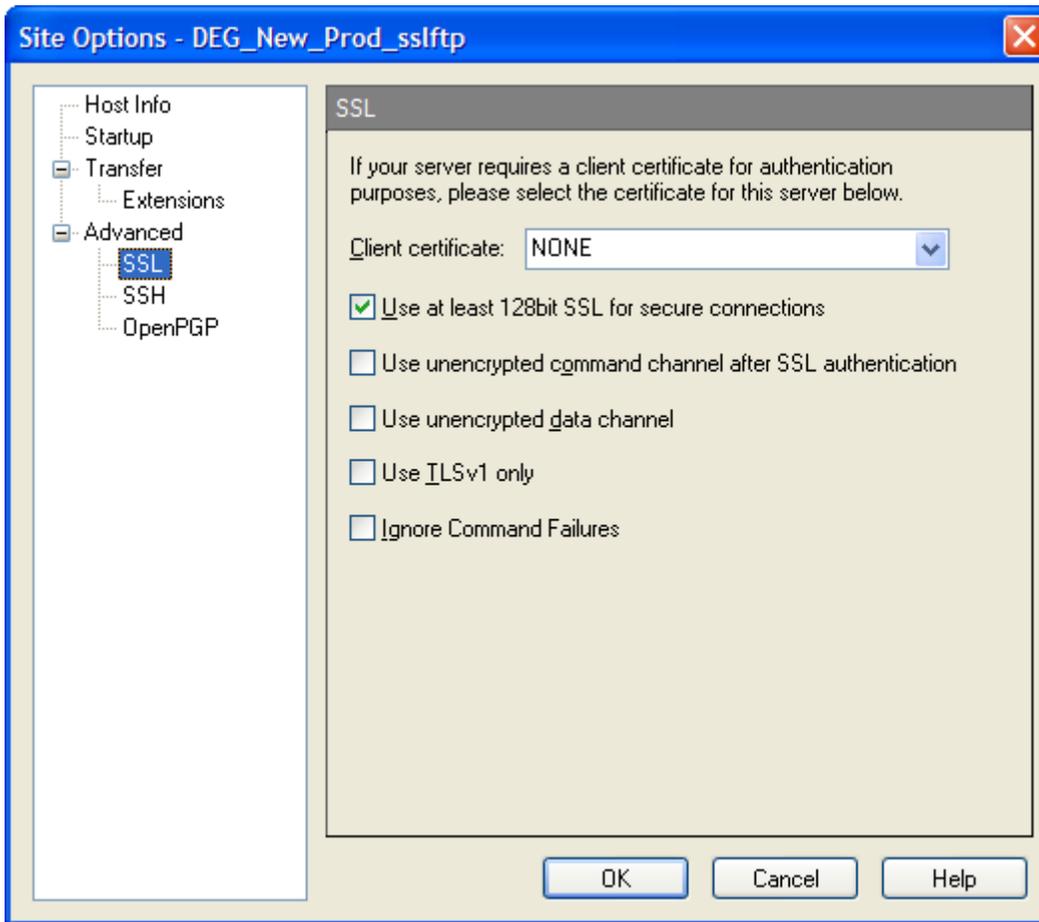
At the bottom of the dialog box, there are three buttons: OK, Cancel, and Help.











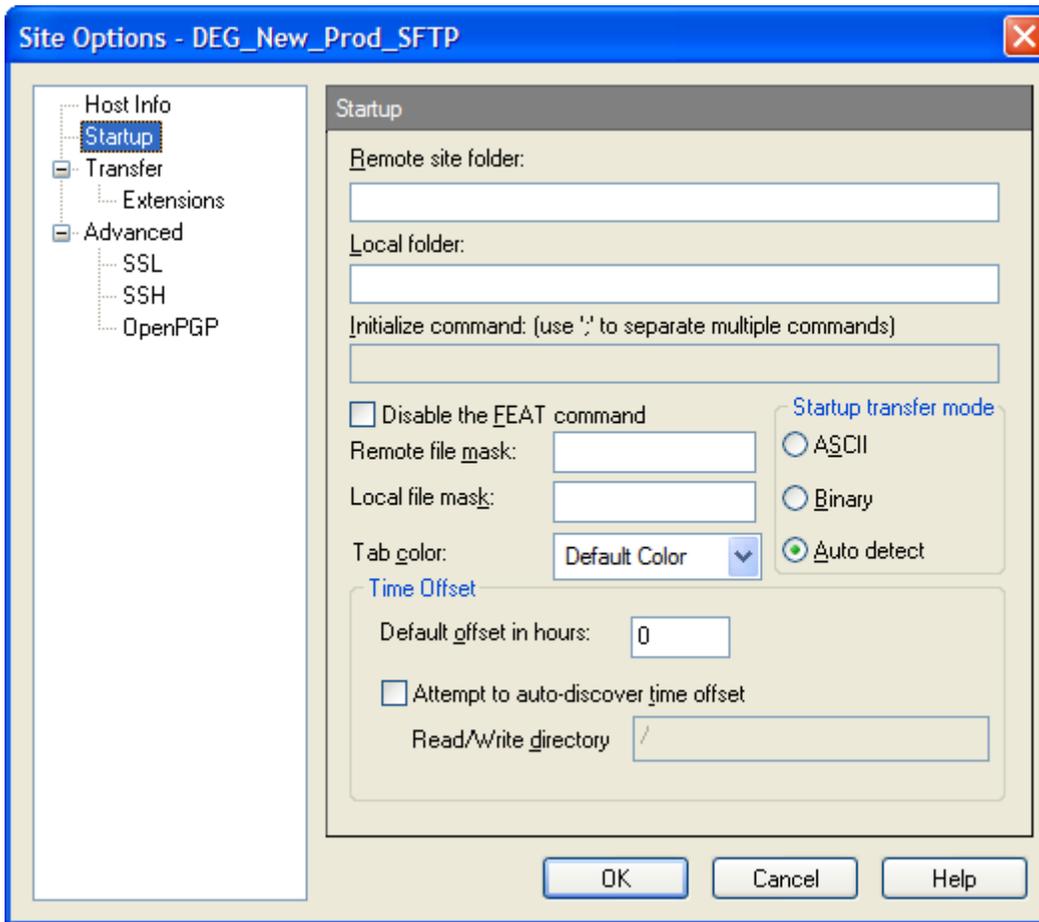
EXAMPLE OF SITE SETUP for SFTP

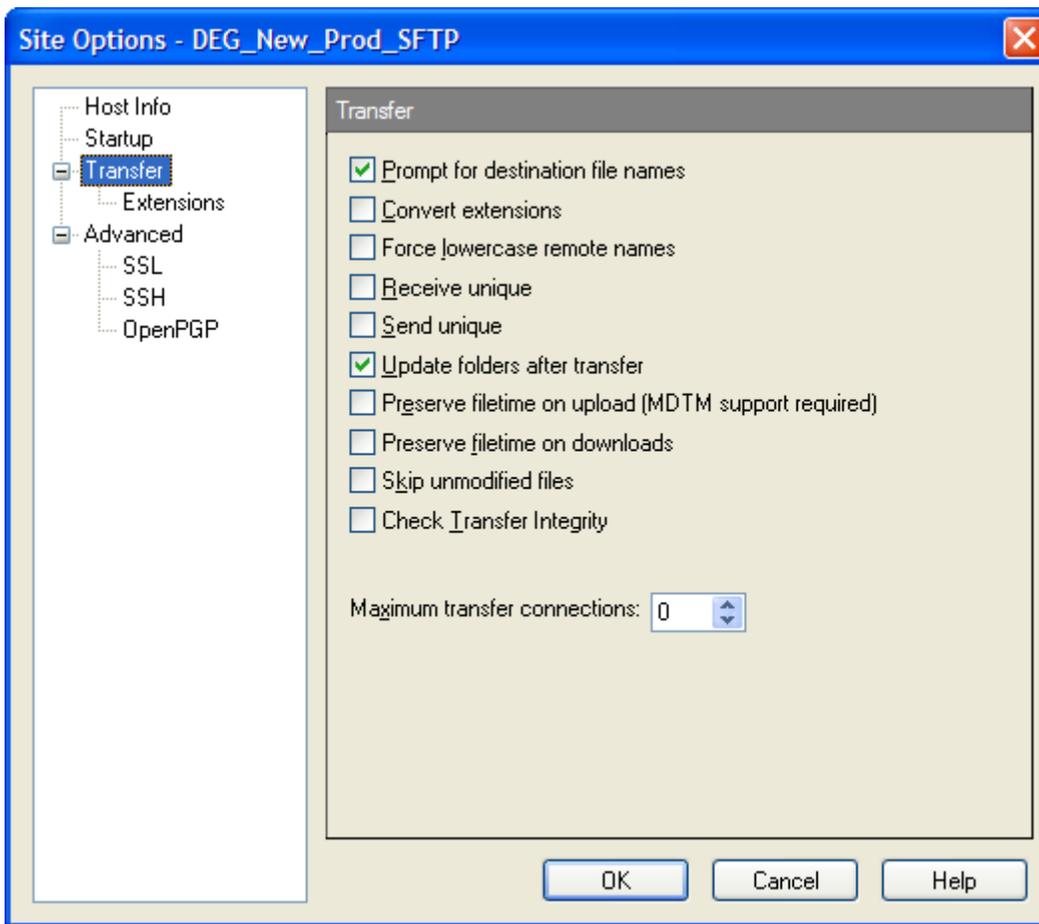
WsFTP Professional Version 2007

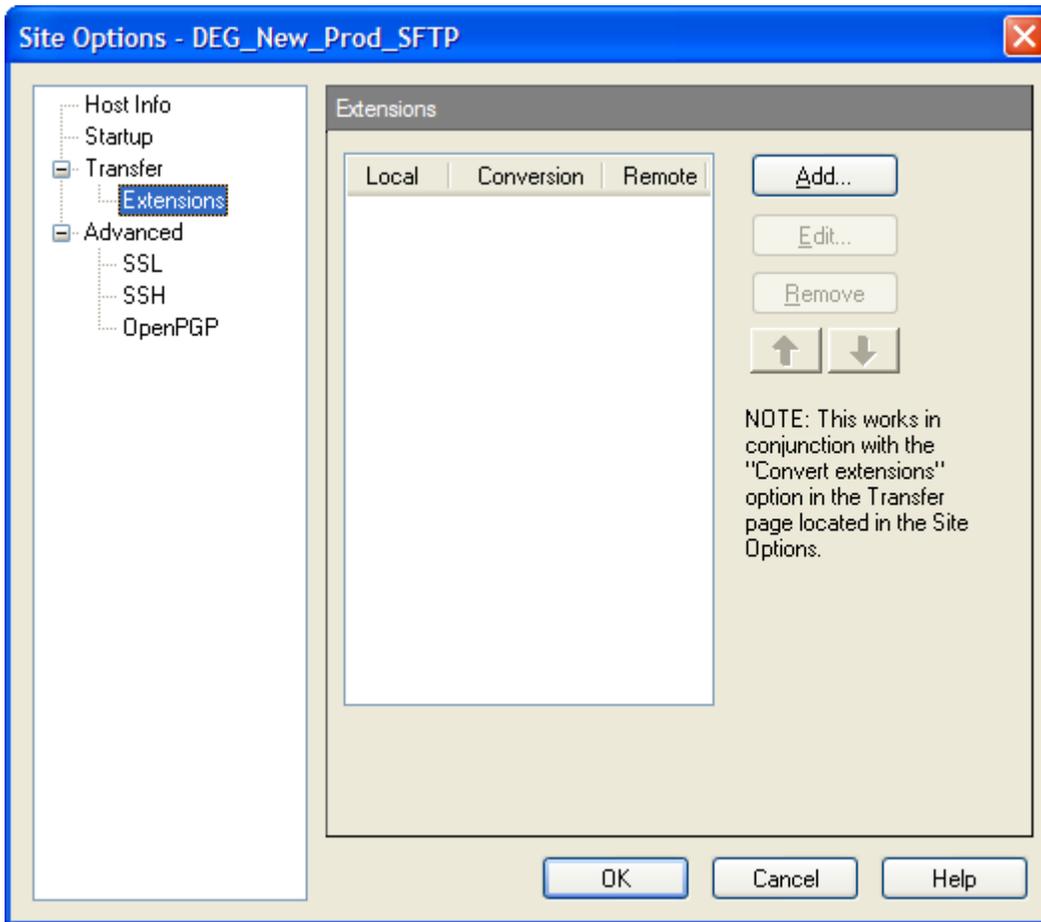
The image shows a screenshot of the 'Site Options' dialog box for a new SFTP site named 'DEG_New_Prod_SFTP'. The dialog is divided into a left-hand tree view and a right-hand main configuration area. The tree view on the left includes 'Host Info', 'Startup', 'Transfer', 'Extensions', 'Advanced', 'SSL', 'SSH', and 'OpenPGP'. The 'Host Info' section is currently selected and expanded. The main configuration area contains the following fields and options:

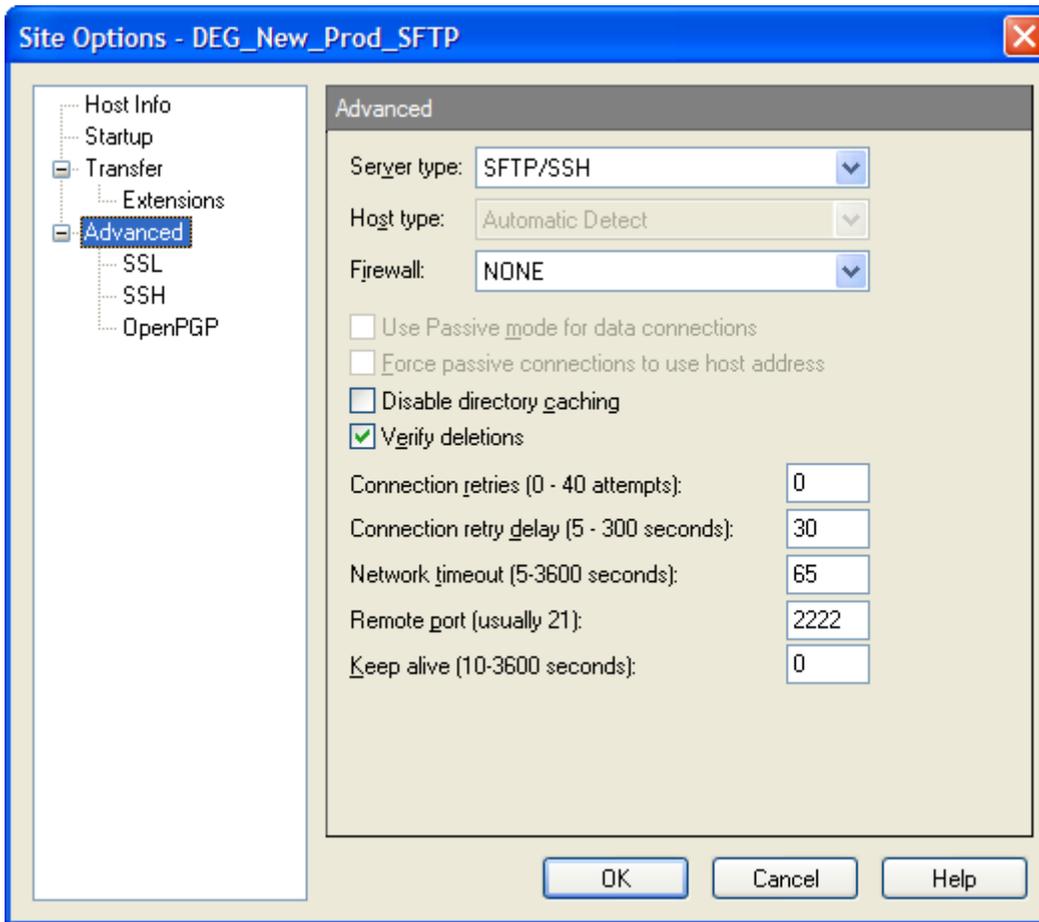
- Site Name:** DEG_New_Prod_SFTP
- Host name:** 136.181.135.38
- UserID:** test
- Password:** [masked with 8 asterisks] Save password
- Account:** [empty] Save account
- Comment:** [empty]

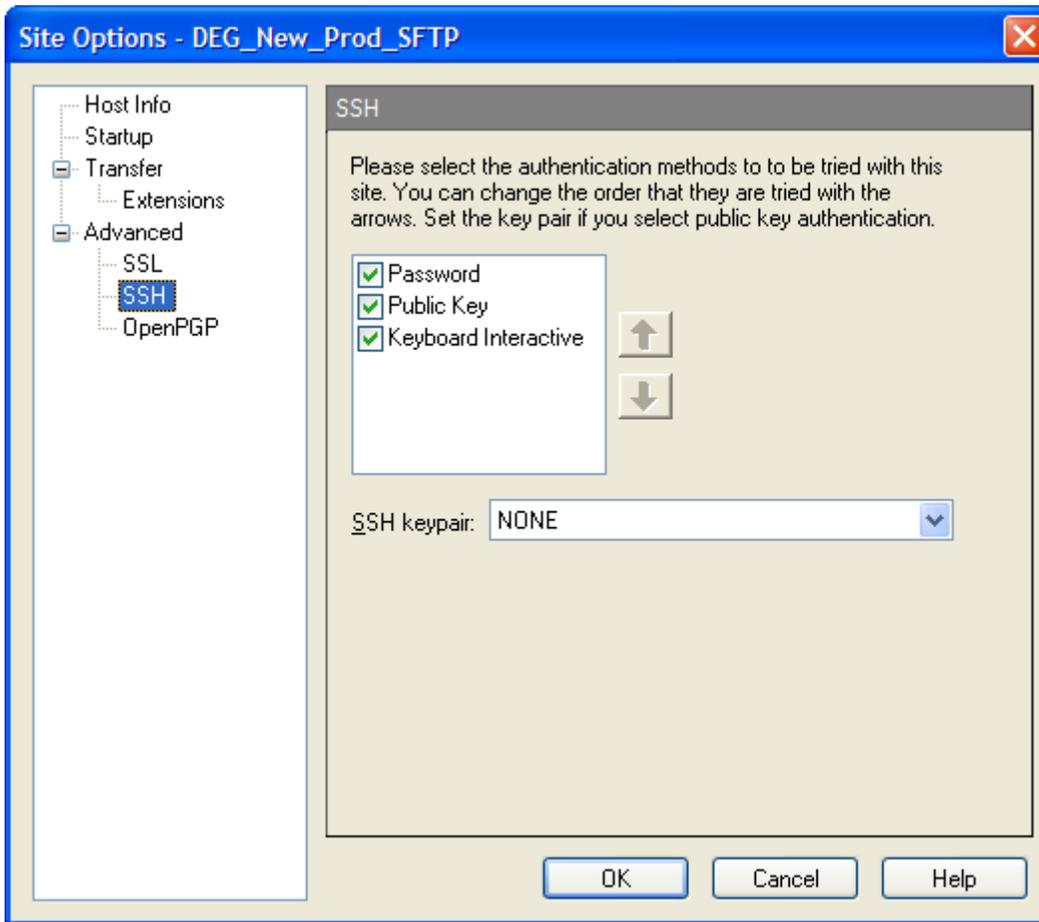
At the bottom of the dialog, there are three buttons: 'OK', 'Cancel', and 'Help'.



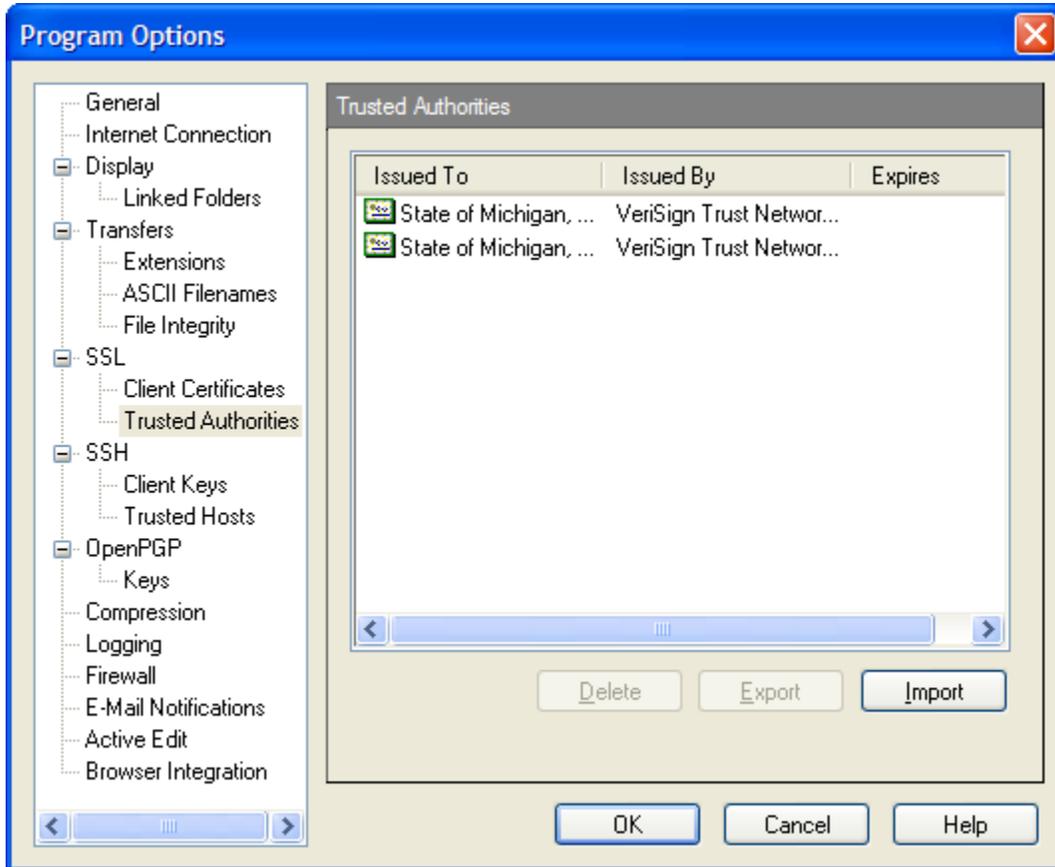








CERTIFICATE SCREEN Version 2007



On Windows 2000 and Windows XP:

**c:\documents and settings\username\application data\lpswitch\Ws_ftp\Sites\
ws_ftp.ini**

```
[_config_]
mailaddr=test@michigan.gov
URLHistory=urlhistory.ini
dir0=c:\Data
[DEG_New_Prod_sslftp]
CONNTYPE=5
HOST="136.181.135.38"
UID="test"
PWD="_W+J7jLDGxlrwcZY+6xr0ZYOmIP1TYiKRI3Ktd6R8="
TABCOLOR="default"
AutoTimeOffsetPath="/"
1033ConvertDirListFrom=0
1033ConvertASCIIDownloadFrom=0
1033ConvertASCIIUploadTo=0
Use128bitSSLAtLeast=1
ClearCommandChannel=0
ClearDataChannel=0
RETRIES=0
PORT=11250
PROMPT=1
PGPENCODETYPE=0
firename="NONE"
dir0=/ftpst2a
dir1=/tmpuser
[DEG_New_Prod_SFTP]
CONNTYPE=4
HOST="136.181.135.38"
UID="test"
PWD="_INLDQIYXrFUYeG142fG1V gLMeAw"
TABCOLOR="default"
AutoTimeOffsetPath="/"
1033ConvertDirListFrom=0
1033ConvertASCIIDownloadFrom=0
1033ConvertASCIIUploadTo=0
firename="NONE"
RETRIES=0
PORT=2222
PASVMODE=0
PROMPT=1
PGPENCODETYPE=1
dir0=/ftpst2a
Use128bitSSLAtLeast=1
ClearCommandChannel=0
ClearDataChannel=0
TIMEOFFSET=0
UseAutoTimeOffset=0
TYPE=6000
UploadStatPeriod=0
DownloadStatPeriod=0
aborseq=0
TIMEOUT=65
CommandTimeout=60
AborTimeout=10
RETRYDELAY=30
RBP=0
SBP=0
KEEPAIVE=0
PREASKPASS=0
NOCACHEAUTH=0
NOCACHEDIRS=0
AUTORECONNECT=1
PRESERVETIMEUP=0
PRESERVETIMEDOWN=0
nofeat=0
TRANSFERCONN=0
```

DATAPORT=0
AMODE=1
MODE=73
CONVEXT=0
DOUPDATE=1
FORCLOW=0
NOTRANSLATEDATAIP=0
STOU=0
RECU=0
VRFYDEL=1
ENABLEPGPMODE=0
ENABLECOMPRESSION=0
CHECKTRANSFERINTEGRITY=0
FORCEPASVTOHOST=0
TRANSFERBATCH=0
TRANSFERMULTIPART=0
TRANSFERAPEND=0

EXAMPLE OF GOOD TRANSFER LOG

SSLFTP

Connecting to 136.181.135.38:11250
Connected to 136.181.135.38:11250 in 0.000000 seconds, Waiting for Server Response
Initializing SSL Session ...
220 DEG FTPS. WARNING: UNAUTHORIZED USE PROHIBITED. ALL USERS ARE LEGALLY ACCOUNTABLE FOR THEIR ACTIONS. BY USING THIS SYSTEM, YOU CONSENT TO HAVING YOUR ACTIONS LOGGED.
AUTH TLS
234 AUTH: securing command channel
SSL session NOT set for reuse
SSL Session Started.
Host type (1): Automatic Detect
USER test
331 Password Required
PASS (hidden)
230 Logon Accepted
SYST
215 UNIX Type:L8
Host type (2): Unix (Standard)
PBSZ 0
200 PBSZ: set for streaming mode
PROT P
200 PROT: data channel in PROTECTED mode
Sending "FEAT" command to determine what features this server supports.
FEAT
211-Extensions supported
211- AUTH TLS|SSL
211- CCC
211- PBSZ 0
211 PROT P|C
Finished interpreting "FEAT" response.
Sending the FEAT command is optional. You can disable it in the site options of the profile.
PWD
257 "/ftpst2a"
TYPE A200 Transfer Mode: ASCII
PASV
227 Entering PASV Mode (136.181.135.38,43,193)
connecting data channel to 136.181.135.38:43,193(11201)
data channel connected to 136.181.135.38:43,193(11201)
LIST
150 Connecting Data Port...
transferred 1040 bytes in 0.078 seconds, 106.496 kbps (13.312 kBps), transfer succeeded.
226 Listing Complete

Starting request

Sending "REST" command to determine if the server supports restarts.

REST 1024

502 REST: Command Not Implemented

This server does not appear to support restarts.

-- Resuming of interrupted transfers disabled.

-- Multipart downloads disabled.

Finished checking for "REST" command support.

TYPE I

200 Transfer Mode: BINARY

PASV

227 Entering PASV Mode (136.181.135.38,43,194)

connecting data channel to 136.181.135.38:43,194(11202)

data channel connected to 136.181.135.38:43,194(11202)

STOR test45

150 Connecting Data Port...

226 Stored Message: [200903311002330013rs] Size: [1131781] bytes

transferred 1131781 bytes in 0.813 seconds, 11143.690 kbps (1392.961 kBps), transfer succeeded.

Transfer request completed with status: Finished

TYPE A

200 Transfer Mode: ASCII

PASV

227 Entering PASV Mode (136.181.135.38,43,195)

connecting data channel to 136.181.135.38:43,195(11203)

data channel connected to 136.181.135.38:43,195(11203)

LIST

150 Connecting Data Port...

transferred 1117 bytes in 0.078 seconds, 114.381 kbps (14.298 kBps), transfer succeeded.

226 Listing Complete

SFTP

Connecting to 136.181.135.38:2222

Connected to 136.181.135.38:2222 in 0.000000 seconds, Waiting for Server Response

Server Welcome: SSH-2.0-OpenSSH_4.3

Client Version: SSH-2.0-WS_FTP-2007.1-2007.11.12

DSS Signature Verified

Session Keys Created

Ciphers Created

New Client->Server ciphers in place.

New Client->Server ciphers in place.

Completed SSH Key Exchange. New Keys in place.

Trying authentication method: "password"

User Authenticated OK!

Completed SSH User Authentication.

Started subsystem "sftp" on channel 0760a2ce

SFTP Protocol Version 3 OK

sftp protocol initialized

Getting Dirlistingtransferred 2187 bytes in 0.016 seconds, 1119.737 kbps (139.967 kBps), transfer succeeded.

Starting request

Opening remote file "/ftpst2a/test45" for writing

Uploading local file "c:\Data\test45"

transferred 1131781 bytes in 1.391 seconds, 6510.878 kbps (813.860 kBps), transfer succeeded.

Transfer request completed with status: Finished

Getting Dirlisting

transferred 2337 bytes in < 0.001 seconds, 18696.000 kbps (2337.000 kBps), transfer succeeded.

Connecting Issues:

1. If you can't logon with SSLFTP, make sure you have the right port number 11250 and advance – server type select – FTP/SSL (AUTH SSL) or with SFTP, make sure you have the right port number 2222 and advanced – server type select – SFTP/SSH.
2. If you are getting a logon OK , but don't get a directory back from your mailbox, you are having a problem with the return data port 11200. First try turning on **PASSIVE MODE**, if that doesn't work you may have a problem with your firewall.
3. If you get an error and you try automatically again. You might want to edit you site profile and make **AUTOCONNECT = 0** and **RETRIES = 0**. See above in document.