SFTP*Plus*

Version 1.1

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Contents

Chapter 1

Introduction

SFTPPlus - a tool for automating SFTP transfers

This is the SFTPPlus client documentation. Please refer to the SFTPPlus Server documentation for the server product.

SFTPPlus provides a facility to allow any files placed into a directory to be transferred to a configured destination using SFTP. All actions are audited, and alerts can be raised for specified conditions. Optionally, a response file can be retrieved after a successful upload.

All files have a date and time stamp added to avoid duplicate names. All files are also archived after processing.

Pre and post processing is available for transfers.

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Chapter 2

Installation

2.1 Pre-installation notes

SFTPPlus is supplied as a zip file which will be unpacked into a single directory. There are no changes to any system directories.

2.1.1 Windows

SFTPPlus does have to make some registry changes:

1. Installing as a service
2. Event log definitions
3. Entries made by the putty program

To run the service, the user that will run the SFTPPlus service must have 'Log on as a service' right.

2.2 Installation

Unzip SFTPPlus.zip into a suitable directory, eg c:\SFTPPLus (Windows) or /usr/local/SFTPPlus(Linux/Unix). The files must be accessible to the user that will run the SFTPPlus service.

2.3 Upgrade

Unzip SFTPPlus.zip into a temporary directory, eg c:\temp (Windows) or /tmp(Linux/Unix).

Stop SFTPPlus

Remove any files from the SFTPPlut outbox or tmp directories.

Copy the new versions of SFTPPlus.rexx, message.conf and the entire doc directory to replace the installed versions.

Restart SFTPPlus

Chapter 3

Configuration

There are a number of items that need to be configured. The main configuration is performed by editing global.conf. This is a plain text file and can be changed with any editor. If you plan to use email notifications then this file must be updated with your local information, otherwise it may be used as supplied.

The messages issued by SFTPPlus can be routed to a number of destinations, and this can be based on message severity or controlled for individual messages. This file as supplied is suitable for most cases.

Transfers are defined with individual configuration files in the *conf* directory. Each transfer requires its own configuration file and matching inbox directory. A sample (*sample.conf*) is provided, which is disabled. It is recommended to make the configuration file name match the inbox directory name (eg for *sample.conf* use directory *inbox\sample*), but this is optional.

The service must be restarted to pick up any configuration change.

3.1   Global Configuration

The global.conf file contains all the main configuration options. Most can be left at default, except the following:

- global.smtpaddress - the target address for email messages

- global.msghost - the host name of the smtp server

- global.msgport - the port number of the smtp port (default 25)

- global.msgfrom - the from address used for messages sent

3.2   Configuring transfers

For each transfer there has to be a configuration file in the conf directory. Also there has to be a putty session profile saved - this provides access to the cached host key, and any proxy configuration. Each transfer also requires its own inbox directory to be created.

Any files placed in the defined inbox subdirectory will be transferred according to the definition.

If a response file is retrieved, it will be placed in a subdirectory (with the same name) of response.

3.2.1 Example scenario

You wish to transfer files to a directory 'report_upload' on unix server called 'targetsys'. The files will be processed at the remote system and a result file will be placed in the 'result_download' directory, with the file name having _rpt appended (eg a file test.xml will generate test_rpt.xml). The result file will be available within 30 minutes.

1. create a conf file called 'targetsys1.conf' (a copy of sample.conf)

2. create an inbox directory 'targetsys1' and response directory 'targetsys1').

3. start putty and create a session 'targetys'. Save the session and test that a connection can be made.

4. edit 'targetsys1.conf'

5. remove the line: disabled = 'y'

6. set local directory: subdir = 'targetsys1'

7. update the server settings with the userid etc. for targetsys.

8. specify: savedprofile = 'targetsys' (or the profile you saved in putty).

9. specify remote directory: targetdir = 'uploaddir/'

10. set: response = 'y'

11. set response file as: responsein = '%fname%_rpt.%ftype%'

12. set remote directory: responsedir = 'results_download/'

13. set sensible wait parameters: initialwait=1800

14. restart SFTPPlus

15. place test file in the inbox directory 'targetsys1'

16. after a few seconds you should see the test file has gone - the transfer will be running.

17. check the message.log file to see the progress

18. If the remote system is running, you should see the file has been uploaded, and the response file will be created.

19. after 30 minutes SFTPPlus will attempt to retrieve the results file.

3.2.2 Transfer Configuration details

1. Windows - To configure putty, you have to be logged on to Windows with the user that will run the SFTPPlus service.

   - Open a command prompt and change to the newly created SFTPPlus directory

2. You need to preconfigure SFTP sessions using putty.

   (a) Start putty.exe (Windows) or ./putty (Linux/Unix)

   (b) Create new session by typing a name in the *saved sessions* box and pressing *save*, or load an existing session.

   (c) set address to the host name or address of the target system

   (d) ensure ssh is selected

   (e) set port to the correct ssh port (default 22)

(f) set proxy information as required

(g) save session with *NAME* (used for *savedprofile* later).

(h) open session, accept key permanently when prompted and login (if allowed). It is important that the remote hosts key is saved, as the SFTPPlus service has no way of asking the user to accept the key. There is no specific requirement for the logon to proceed, and it is possible that the remote system is configured to prevent such access.

At this stage it is a good idea to create any required remote directories. If a full login is not permitted, then using psftp interactively is an option.

(i) exit the remote system

3. Make a copy of sample.conf in the conf directory.

4. Edit the new conf file (eg with notepad)

In this file a line that begins with /* and ends with */ is a comment.

You will have to set server, port, user, password etc. Each line should be in the format *parameter = 'value'*.

(a) Remove or comment out the *disabled = 'y'* line - this stops the definition being activated.

(b) subdir - the subdirectory of inbox that files will be placed in for transfer. All files placed here will be transferred. This directory has to exist.

(c) type - type of transfer, currently only sftp is supported.

(d) direction - get or put (put is default)

(e) server - the server name or address of the target system port - port to connect to, usually 22 for sftp

(f) user - the userid on the remote system

(g) password - the password on the remote system

(h) savedprofile - the profile *NAME* saved by putty earlier

(i) targetdir - the target directory on the remote system for transferred files (for put only). This is a relative path.

(j) forcelowercase - (put only) use lwer case names for the transfer, ignores the original case of the file

(k) targettimestamp - (put only) include a timestamp at the target for uniqueness 'y' or 'n' (default 'y'). Must be set to 'n' for systems that do not support long filenames.

(l) timestamp - (get only) include a timestamp on the received file for uniqueness 'y' or 'n' (default 'y')

(m) remotedir - the directory the file is to be pulled from on the remote system (get only)

(n) remotefile - the file name to be pulled from the remote system (get only)

(o) starttime - Time for transfer to be started, format is hh:mm (get only) This will be repeated daily at the same time

(p) createmd5sum - will an md5sum file be created 'y' or 'n' (default 'y')

(q) sendmd5sum - the md5sum of the file can also be transferred if required.

(r) preprocess - Allow customised processing before transfer if required. As an example, you may wish to copy the incoming file to another inbox directory to copy this file to multiple destinations.

(s) postprocesssuccess - Allow customised processing after a successful transfer if required.

(t) postprocessfail - Allow customised processing after a failed transfer if required.

(u) Response - (put only) set to y if a response file is to be returned. This would typically be created by the remote system after processing the transferred file. The file will be placed in the *response\subdir* directory, which must exist.

(v) responsein - the filename that should be collected. This can be a plain file name or use %fname% and %ftype% for name and type matching. %ftype% does not include the '.' separator, eg if the file format is *FNAME_rpt.FTYPE* use :
```
responsein = '%fname%_rpt.%ftype%'
```

    i. responsedir - the directory where the response file will be collected from on the remote system

    ii. responsetimestamp - (put only) include a timestamp in the response file for uniqueness 'y' or 'n' (default 'y').

    iii. postprocessresponsesuccess - Allow customised processing after a successful transfer if required.

    iv. postprocessresponsefail - Allow customised processing after a failed transfer if required.

(w) maxtry - maximum number of attempts for a transfer. If this is exceeded the transfer will be considered to have failed.

(x) waittime - the time to wait between attempts if a transfer fails

(y) initialwait - the time to wait before looking for a response file.

(z) smtpaddress - the smtp email address for email alerts.

Create the sub-directory of inbox if it does not already exist. Also create the subdirectory of response if expecting a response file.

Chapter 4

Running

4.1   Windows

Normally SFTPPlus is installed as a service. Messages are written to message.log and/or the eventlog, according to the message.conf file.

4.1.1   Installing the service

The service is installed, and will be set to automatically start, with the following command:

InstallSFTPPlus.bat
or
regina.exe SFTPPlus.rexx install

4.1.2   Starting the service

The service can be started with

StartSFTPPlus.bat
or
regina.exe SFTPPlus.rexx start

4.1.3   Stopping the service

The service can be stopped with

StopSFTPPlus.bat
or
regina.exe SFTPPlus.rexx stop

4.1.4   Removing the service

The service can be removed with

RemoveSFTPPlus.bat
or
regina.exe SFTPPlus.rexx remove

4.1.5   Advanced running

SFTPPlus can be run from the command line for debugging :

regina.exe SFTPPlus.rexx

4.2   Linux/Unix

SFTPPlus is run from the command line or as a daemon. Usually the daemon would be started automatically and a script to do this (rc.SFTPPlus) is provided.

Chapter 5

Using

SFTPPlus is designed to run unattended. Normal processing would be for a separate process to place a file in the inbox directory, and then later take a response file (if required) from the response directory. Pre and post processing is available to help with automation.

5.1 put

5.1.1 Initial transfer

Once the transfers have been configured, simply place a file to be transferred into the configured directory (eg inbox\sample). SFTPPlus will transfer the file to the remote destination automatically.

When a transfer completes message 46 ('File sent OK.') is issued. If a transfer fails, message 45 = 'Secure ftp error' will be issued.

5.1.2 Response transfer

If a response file is configured to be returned, then this will be placed in the response subdirectory (eg response\sample). SFTPPlus will transfer the file from the remote destination automatically.

When a response transfer completes message 51 = 'Response file | for | transfer is available' If the response transfer fails, 49 = 'Failed to obtain response' will be issued.

5.2 get

A get is defined by setting the remote file information, the local target directory (a sub directory of inbox) and a time of day to get the file. This will result in a daily transfer of the file if it exists.

Chapter 6

Notification and alerts

The messages issued by SFTPPlus are controlled by message.conf. This provides the message text, severity, help and routing information. Please refer to the Audit chapter for further details.

Messages are routed based on severity. As supplied, all messages are written to the message.log file, and important messages are also written to the event log. The message route of 'console' will write to event log when running as a service.

6.1   SNMP alerts for Windows

You need to have suitable snmp tools installed. This section includes brief details for using the tools supplied with Windows under 'Management and Monitoring Tools'. To set up alerts, find the required message number in message.conf. Ensure that this is routed to the eventlog, either specifically or by severity.

Eg to make message 51 ('Response file | for | transfer is available') route to the log and event log add a line:
```
message.route.51 = 'log,eventlog'
```

If using the Microsoft tools, use the evntwin program to add a new trap for the required message number. The event source name is *SFTPPlus*.

- start evntwin.exe
- Select *Custom* configuration
- Click the *Edit*   button to see the list of sources
- Select SFTPPlus under the Application event sources.
- Scroll down and select message 51 and then click *Add*.
- Click *OK* to confirm
- Click *OK* or *Apply* to activate these settings

You will now receive an alert when SFTPPlus retrieves a response file.

6.2   Email alerts

Email alerts are sent using an smtp server. The server settings are in global.conf .

By default no messages are routed to email. To set up email routing of messages:

1. update global.conf for your site smtp server

2. set the route in message.conf for the desired severity or individual messages to include email. Eg to make message 51 ('Response file | for | transfer is available') route to the log and email add a line: `message.route.51 = 'log,email'`

3. optionally set the smtpaddress for email destinations for specific transfers.

4. restart the service.

If the SFTPPlus service has any errors talking to the smtp server, it will not retry and will disable it's email routing. This is to prevent recursive errors when reporting on such a problem. Message 74 will be issued, which is of severity 'S'.

Chapter 7

Pre and post processing

Pre and post processing options provide facilities to manipulate files before or after processing. It is usually recommended that anything beyond a simple command is wrapped in a bat file or shell script.

7.1   Pre Processing

Before a file is transferred the preprocess action can work on the original file, eg making a copy if required. This is how multiple transfers can be performed on a single file.

For example, to have files received in directory *transferA* to also be processed as *transferB*:

```
preprocess = 'copy %file% c:\SFTPPlus\inbox\transferB'
```

7.2   Post Processing - initial transfer

After a successful or failed transfer, the post processing can perform advanced alerts or reports.

7.3   Post Processing - response file

After a response file is retrieved, the post processing can initiate a further task, to operate on the newly retrieved file. The file name can be specified as *%resp%*. This file will be in the defined response subdirectory.

Chapter 8

Audit

SFTPPlus provides a full audit trail through its message system. All messages are written to the message log (unless specifically disabled) and can optionally be routed to the Windows event log, emails and is easily extended for other systems.

The file message.conf provides the messages and the main controls. This allows messages to be routed according to requirements. The messages from this file are included in a later chapter.

8.1   Message details

To aid with explaining the message format I will use message 7 as an example:

```
message.text.7 = 'Definition | disabled - ignoring'
message.severity.7 = 'E'
message.help.7 = 'The definition is specifically disabled in the config-
uration file.  The definition should be removed if not needed.  It can be
left as disabled if it may be required in future.'
```

The message numbers are used as an index, message text can be translated

8.1.1   Severity

Message severity is

- I - information - no action needed
- W - warning - usually retriable error, eg file not ready yet
- E - Error - something has failed, but can continue
- S - Severe error - cannot continue

Message text - the | symbol will be replaced with parameters. Parameters will be appended to the string if there are no | characters.

8.1.2   Routes

message routes are set using the following variables:

- message.route.I - the message route for severity I

- message.route.W - the message route for severity W

- message.route.E - the message route for severity E

- message.route.S - the message route for severity S

An individual message can have it's route overridden using it's number, eg
```
message.route.7 = 'log,email'
```
Available routes are:

- 'console' - display if interactive, or piped output

- 'log' - write to the log file (see message.logfile)

- 'eventlog' - (Windows only) - event log entries are used for snmp

- 'email' - send email (**** see global.conf ****)

Separate multiple routes with ','

8.2   Log file

The message log file will always be in the program root directory This allows the issue of messages before reading config files. If you change the log file here the initial messages will still be written to the file defined in SFTPPlus.rexx

8.2.1   Format

Messages are issued in the following format:

```
yyyymmdd hh:mm:ss product nnnns text
20050719 10:47:57 SFTPPlus 0007E Definition sample disabled - ignoring
```

This was message 7 issued with parameter 'sample' at 10:47:57 on 19 July 2005.

8.2.2   Log control

The message log file will be saved at the end of each day with the date appended to the end of the file name, eg message.log.20050720 for July 20 2005. The message logs may then be archived and deleted.

8.3   Archive

All files processed and the commands used are archived for audit purposes. The files are saved in the Archive sub directory. The files all have a date and time stamp in their names. Examples for a typical transfer: myfile.20050720.094817.489000.xml
myfile.20050720.094817.489000.md5sum
myfile.20050720.094817.489000.sftp
myfile.20050720.094817.489000.result
myfile.20050720.094817.489000.response.sftp
myfile.20050720.094817.489000.response.result

myfile.20050720.094817.489000_rpt.xml

The original file was myfile.xml. The file was sent at 09:48:17 on July 20 2005. The suffixes indicate the data:

- xml - the original or response file suffix- the response file in this case has extra characters _rpt inserted. This will match the original filetype

- md5sum - contains the ms5sum of the original file

- sftp - contains the sftp commands for the transfer (or response)

- result - contains the output of the transfer (or response)

The archive files can be deleted at any time.

Chapter 9

Removal

SFTPPlus can be removed by removing the service, and then deleting the SFTPPlus directory.

1. Remove service if installed (Windows):

   regina.exe SFTPPlus.rexx remove

2. Delete SFTPPlus directory

Chapter 10

Messages

The messages issued by SFTPPlus are listed here as a convenience. Please note that the file message.conf contains the most up to date set of messages.

10.1 Messages

- – MessageId - 0
  - Severity - I
  - Text -
  - Help - Messages issued before processing the global.conf file

- – MessageId - 1
  - Severity - I
  - Text - Configuration read, startup continues
  - Help - The global.conf file has been processed and startup continues

- – MessageId - 2
  - Severity - S
  - Text - Unable to find conf files
  - Help - SFTPPluss has failed to find the required configuration files. Consult message.log and check the runtime path. This may also indicate a problem with semaphore locking.

- – MessageId - 3
  - Severity - E
  - Text - STDERR
  - Help - Error output from a command issued.

- – MessageId - 4

- – Severity - I

- – Text - STDOUT

- – Help - Output from a command issued

- • – MessageId - 5

  – Severity - I

  – Text - Config file

  – Help - Configuration file is being read

- • – MessageId - 6

  – Severity - I

  – Text - Setting:

  – Help - Setting from a configuration file

- • – MessageId - 7

  – Severity - E

  – Text - Definition | disabled - ignoring

  – Help - The definition is specifically disabled in the configuration file. The definition should be removed if not needed. It can be left as disabled if it may be required in future.

- • – MessageId - 8

  – Severity - E

  – Text - Unable to scan | - ignoring

  – Help - A defined directory was not able to be scanned. Check the directory exists and is accessible to the SFTPPlus service

- • – MessageId - 9

  – Severity - E

  – Text - command was

  – Help - Command used to test a directory

- • – MessageId - 10

  – Severity - I

  – Text - Adding | to monitoring list

  – Help - The definition listed has been added to the list of active definitions

- • – MessageId - 11

  – Severity - E

  – Text - Missing subdir parameter in |, ignoring

- Help - A definition has no subdir parameter. Add the correct subdir parameter to the definition. This must point to a sub-directory of inbox

-
  - MessageId - 12
  - Severity - I
  - Text - Using server | for
  - Help - The server specified for a transfer

-
  - MessageId - 13
  - Severity - E
  - Text - Missing server parameter |, ignoring
  - Help - No server was specified for a transfer - the target server must be specified

-
  - MessageId - 14
  - Severity - I
  - Text - Using port | for
  - Help - The port specified for a transfer

-
  - MessageId - 15
  - Severity - I
  - Text - Using port 22 for
  - Help - Using the default port (22) for sftp

-
  - MessageId - 16
  - Severity - I
  - Text - Using user | for
  - Help - The user specified for the remote system for a transfer

-
  - MessageId - 17
  - Severity - E
  - Text - Missing user parameter
  - Help - A userid must be specified for the target system

-
  - MessageId - 18
  - Severity - I
  - Text - Using password provided for
  - Help - The password provided will be used.

-
  - MessageId - 19

- Severity - E

- Text - Missing password parameter

- Help - No password has been provided for the remote system. This must be the password for the specified user on the remote system.

-
  - MessageId - 20

  - Severity - I

  - Text - Using saved profile | for

  - Help - The specified PuTTY profile will be used.

-
  - MessageId - 21

  - Severity - E

  - Text - Missing savedprofile parameter

  - Help - No PuTTY profile has been specified. The profile will be created by using the putty.exe gui, and saving a connection definition

-
  - MessageId - 22

  - Severity - I

  - Text - Using target directory | for

  - Help - The remote directory where transferred files will be placed.

-
  - MessageId - 23

  - Severity - E

  - Text - Missing targetdir parameter

  - Help - A remote directory must be specified for storing transferred files.

-
  - MessageId - 24

  - Severity - I

  - Text - Using response file | for

  - Help - A response file as specified will be retrieved after a transfer

-
  - MessageId - 25

  - Severity - E

  - Text - Missing responsein parameter

  - Help - A response file name must be specified. This can include %FNAME% and %FTYPE% for filename and type

-
  - MessageId - 26

  - Severity - I

- – Text - Using response directory | for

- – Help - The response file will be retrieved from the specified remote directory.

- – MessageId - 27

  – Severity - E

  – Text - Missing responsedir parameter

  – Help - A remote directory where the response file will be found must be specified.

- – MessageId - 28

  – Severity - I

  – Text - Using maxtry | for

  – Help - The maximum times a transfer will be attempted before considering as a permanent failure

- – MessageId - 29

  – Severity - I

  – Text - Using global maxtry | for

  – Help - Using the global maxtry value for this transfer

- – MessageId - 30

  – Severity - I

  – Text - Using waittime | for

  – Help - The time between transfer attempts in seconds

- – MessageId - 31

  – Severity - I

  – Text - Using global waittime | for

  – Help - Using the global waittime for this transfer.

- – MessageId - 32

  – Severity - I

  – Text - Using initialwait | for

  – Help - The initial wait time before attempting to retrieve a response file. This is intended to allow for processing time between sending a file and the output being created remotely.

- – MessageId - 33

  – Severity - I

  – Text - Using global initialwait | for

- – Help - The global initial waittime will be used for this transfer

- – MessageId - 34
  – Severity - I
  – Text - looking for files
  – Help - SFTPPlus is starting a directory scan

- – MessageId - 35
  – Severity - I
  – Text - Checking
  – Help - SFTPPlus is checking for files for the specified transfer

- – MessageId - 36
  – Severity - E
  – Text - Unable to scan directory
  – Help - SFTPPlus has failed to scan a directory - please check following messages for details

- – MessageId - 37
  – Severity - I
  – Text - pausing
  – Help - SFTPPlus is waiting for further files.

- – MessageId - 38
  – Severity - S
  – Text - sleep interrupted
  – Help - SFTPPlus has received a signal and will shut down

- – MessageId - 39
  – Severity - S
  – Text - unreachable code
  – Help - Debugging information. If this message appears, please contact Technical Support

- – MessageId - 40
  – Severity - I
  – Text - Checking file size
  – Help - Checking the size of a file before transfer, to ensure that it is not still being written to

- – MessageId - 41
  – Severity - I

- Text - filesize | bytes

- Help - Report on the size of a file to be transferred

- – MessageId - 42

  - Severity - I

  - Text - creating checksum

  - Help - The md5sum hash of the file is being created

- – MessageId - 43

  - Severity - I

  - Text - Sending file

  - Help - The file is being sent

- – MessageId - 44

  - Severity - I

  - Text - psftp returned

  - Help - Return code from psftp

- – MessageId - 45

  - Severity - E

  - Text - Secure ftp error - please see

  - Help - An error has occurred in a transfer, and the indicated file will include more information

- – MessageId - 46

  - Severity - I

  - Text - File sent OK.

  - Help - A transfer has completed

- – MessageId - 47

  - Severity - I

  - Text - Adding response to queue

  - Help - A response file will be retrieved at the appropriate time

- – MessageId - 48

  - Severity - I

  - Text - Checking for response file for

  - Help - An attempt to retrieve a response file is in progress

- – MessageId - 49

- – Severity - W

  – Text - Failed to obtain response for

  – Help - A response file has not been retrieved. This may indicate insufficient waittime

- – MessageId - 50

  – Severity - I

  – Text - Waiting | for response file for |, | attempts left

  – Help - Information about the number of retries

- – MessageId - 51

  – Severity - I

  – Text - Response file | for | transfer is available

  – Help - A response file has been retrieved successfully

- – MessageId - 52

  – Severity - W

  – Text - File Transfer message:

  – Help - Report from a file transfer session

- – MessageId - 53

  – Severity - I

  – Text - Processing file | as

  – Help - The original filename has had a timestamp added for uniqueness

- – MessageId - 54

  – Severity - I

  – Text - Response received ok

  – Help - A response file has been received

- – MessageId - 55

  – Severity - I

  – Text - Preparing to send for

  – Help - A file is being prepared for transfer

- – MessageId - 56

  – Severity - I

  – Text - Waiting | to send file for |, | attempts left

  – Help - Report on the number of retries for sending a file

- – MessageId - 57
  - – Severity - I
  - – Text - Adding response to queue for
  - – Help - A response file transfer will be queued for later retrieval

- – MessageId - 58
  - – Severity - E
  - – Text - Failed to send file for
  - – Help - A transfer has failed - see following messages

- – MessageId - 59
  - – Severity - E
  - – Text - Type | not supported, ignoring
  - – Help - An invalid transfer type has been specified, the transfer definition will not be used

- – MessageId - 60
  - – Severity - E
  - – Text - Missing type parameter |, ignoring
  - – Help - No transfer type has been specified - the transfer definition will not be used

- – MessageId - 61
  - – Severity - I
  - – Text - Transfer type | for
  - – Help - The specified transfer type will be used

- – MessageId - 62
  - – Severity - I
  - – Text - md5sum will be sent for
  - – Help - The transfer will also include the md5sum file

- – MessageId - 63
  - – Severity - I
  - – Text - md5sum will not be sent for
  - – Help - The transfer will not include the md5sum file

- – MessageId - 64
  - – Severity - I
  - – Text - preprocess command for | is:

- – Help - The specified command will run before a transfer

- – MessageId - 65
  - – Severity - I
  - – Text - no preprocess command for
  - – Help - There is no preprocess for a transfer

- – MessageId - 66
  - – Severity - I
  - – Text - postprocess | command for | is:
  - – Help - The specified command will run after a transfer

- – MessageId - 67
  - – Severity - I
  - – Text - no postprocess | command for
  - – Help - There is no postprocess for a transfer

- – MessageId - 68
  - – Severity - I
  - – Text - Running | command for | ,
  - – Help - The specified command is being run

- – MessageId - 69
  - – Severity - I
  - – Text - Command for | rc 0
  - – Help - The command had a return code of 0 (usually good)

- – MessageId - 70
  - – Severity - W
  - – Text - Command for | rc
  - – Help - The command had a return other than 0 (usually bad)

- – MessageId - 71
  - – Severity - I
  - – Text - Command for | stdout
  - – Help - The output for a command

- – MessageId - 72
  - – Severity - W

  – Text - Command for | stderr

  – Help - The error messages for a command

- – MessageId - 73

  – Severity - S

  – Text - Program interrupted, shutting down

  – Help - An interrupt signal was received

- – MessageId - 74

  – Severity - S

  – Text - SMTP Socket problem

  – Help - A problem has occurred with a socket command for SMTP messaging. SMTP will be
    disabled

- – MessageId - 75

  – Severity - W

  – Text - File still changing, postponing

  – Help - A file in an inbox directory is still being updated, it will be retried later

- – MessageId - 76

  – Severity - I

  – Text - Email messages for | will be sent to

  – Help - The specified email address will receive messages related to this transfer

- – MessageId - 77

  – Severity - I

  – Text - Email messages for | will be sent to default

  – Help - The default global email address will receive messages related to this transfer

- – MessageId - 78

  – Severity - S

  – Text - Failure writing file

  – Help - A problem has occurred writing to a file. SFTPPlus will terminate

- – MessageId - 79

  – Severity - S

  – Text - Failure reading file

  – Help - A problem has occurred reading from a file. SFTPPlus will terminate

- – MessageId - 80
  - Severity - I
  - Text - md5sum will not be created for
  - Help - No md5sum will be created for the transfer. This will reduce CPU load, but prevents use of the md5sum in the audit

- – MessageId - 81
  - Severity - I
  - Text - Timestamp will not be used in the target filename
  - Help - The target file name will not include the timestamp. This means that SFTPPlus will not be able to guarantee that files will not be overwritten

- – MessageId - 82
  - Severity - I
  - Text - Timestamp will not be used in the local response filename
  - Help - The local response file name will not include the timestamp. This means that SFTPPlus will not be able to guarantee that files will not be overwritten

- – MessageId - 83
  - Severity - I
  - Text - Using remote directory | for
  - Help - The remote directory where transfer files will be pulled from.

- – MessageId - 84
  - Severity - E
  - Text - Missing remotedir parameter
  - Help - A remote directory must be specified for pulling transfer files.

- – MessageId - 85
  - Severity - I
  - Text - Using filename | for
  - Help - The remote filename that will be pulled.

- – MessageId - 86
  - Severity - E
  - Text - Missing filename parameter
  - Help - A remote filename must be specified for pulling.

- – MessageId - 87

- – Severity - I
- – Text - Using starttime | for
- – Help - The starttime for pulling the file

Index