

ooRexx

Documentation 5.1.0

Open Object Rexx

RxFtp Class Library Reference



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RxFtp Class Library Reference

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Preface

This book describes the Open Object Rexx RxFTP Class Library and its methods.

This book is intended for people who plan to develop applications using Rexx and FTP. Its users range from the novice, who might have experience in some programming language but no Rexx or FTP experience, to the experienced application developer, who might have had some experience with Object Rexx and FTP.

This book is a reference rather than a tutorial. It assumes you are already familiar with object-oriented programming concepts.

Descriptions include the use and syntax of the language and explain how the language processor "interprets" the language as a program is running.

1. Document Conventions

This manual uses several conventions to highlight certain words and phrases and draw attention to specific pieces of information.

1.1. Typographic Conventions

Typographic conventions are used to call attention to specific words and phrases. These conventions, and the circumstances they apply to, are as follows.

Mono-spaced Bold is used to highlight literal strings, class names, or inline code examples. For example:

The **Class** class comparison methods return **.true** or **.false**, the result of performing the comparison operation.

This method is exactly equivalent to **subWord(*n*, 1)**.

Mono-spaced Normal denotes method names or source code in program listings set off as separate examples.

This method has no effect on the action of any `hasEntry`, `hasIndex`, `items`, `remove`, or `supplier` message sent to the collection.

```
-- reverse an array
a = .Array-of("one", "two", "three", "four", "five")

-- five, four, three, two, one
aReverse = .CircularQueue~new(a~size)~appendAll(a)~makeArray("lifo")
```

Proportional Italic is used for method and function variables and arguments.

A supplier loop specifies one or two control variables, *index*, and *item*, which receive a different value on each repetition of the loop.

Returns a string of length *length* with *string* centered in it and with *pad* characters added as necessary to make up length.

1.2. Notes and Warnings

Finally, we use three visual styles to draw attention to information that might otherwise be overlooked.

**Note**

Notes are tips, shortcuts or alternative approaches to the task at hand. Ignoring a note should have no negative consequences, but you might miss out on a trick that makes your life easier.

**Important**

Important boxes detail things that are easily missed, like mandatory initialization. Ignoring a box labeled 'Important' will not cause data loss but may cause irritation and frustration.


**Warning**

Warnings should not be ignored. Ignoring warnings will most likely cause data loss.


2. How to Read the Syntax Diagrams

Throughout this book, syntax is described using the structure defined below.

- Read the syntax diagrams from left to right, from top to bottom, following the path of the line.

The  symbol indicates the beginning of a statement.

The  symbol indicates that the statement syntax is continued on the next line.

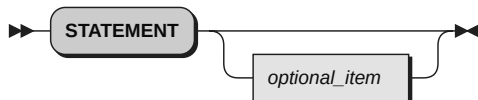
The  symbol indicates that a statement is continued from the previous line.

The  symbol indicates the end of a statement.

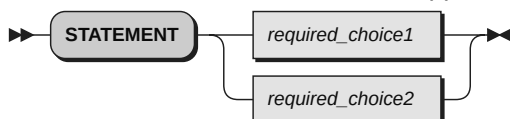
- Required items appear on the horizontal line (the main path).



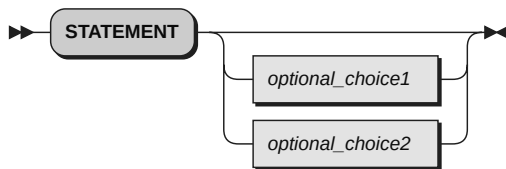
- Optional items appear below the main path.



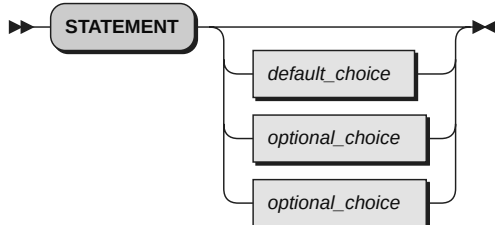
- If you can choose from two or more items, they appear vertically, in a stack. If you must choose one of the items, one item of the stack appears on the main path.



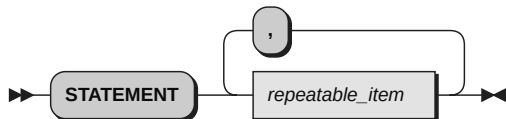
- If choosing one of the items is optional, the entire stack appears below the main path.



- If one of the items is the default, it is usually the topmost item of the stack of items below the main path.



- A path returning to the left above the main line indicates an item that can be repeated.



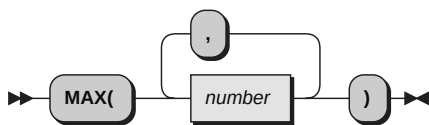
A repeat path above a stack indicates that you can repeat the items in the stack.

- A pointed rectangle around an item indicates that the item is a fragment, a part of the syntax diagram that appears in greater detail below the main diagram.



- Keywords appear in uppercase (for example, **SIGNAL**). They must be spelled exactly as shown but you can type them in upper, lower, or mixed case. Variables appear in all lowercase letters (for example, *index*). They represent user-supplied names or values.
- If punctuation marks, parentheses, arithmetic operators, or such symbols are shown, you must enter them as part of the syntax.

The following example shows how the syntax is described:



3. Getting Help and Submitting Feedback

The Open Object Rexx Project has a number of methods to obtain help and submit feedback for ooRexx and the extension packages that are part of ooRexx. These methods, in no particular order of preference, are listed below.

3.1. The Open Object Rexx SourceForge Site

Open Object Rexx utilizes SourceForge to house its source repositories, mailing lists and other project features at <https://sourceforge.net/projects/ooRexx>. ooRexx uses the Developer and User mailing lists at <https://sourceforge.net/p/ooRexx/mailman> for discussions concerning ooRexx. The ooRexx user is most likely to get timely replies from one of these mailing lists.

Here is a list of some of the most useful facilities provided by SourceForge.

The Developer Mailing List

Subscribe to the oorexx-devel mailing list at <https://sourceforge.net/projects/oorexx/lists/oorexx-devel> to discuss ooRexx project development activities and future interpreter enhancements. You can find its archive of past messages at <https://sourceforge.net/p/oorexx/mailman/oorexx-devel>.

The Users Mailing List

Subscribe to the oorexx-users mailing list at <https://sourceforge.net/projects/oorexx/lists/oorexx-users> to discuss how to use ooRexx. It also supports a historical archive of past messages.

The Announcements Mailing List

Subscribe to the oorexx-announce mailing list at <https://sourceforge.net/projects/oorexx/lists/oorexx-announce> to receive announcements of significant ooRexx project events.

The Bug Mailing List

Subscribe to the oorexx-bugs mailing list at <https://sourceforge.net/projects/oorexx/lists/oorexx-bugs> to monitor changes in the ooRexx bug tracking system.

Bug Reports

You can view ooRexx bug reports at <https://sourceforge.net/p/oorexx/bugs>. To be able to create new bug reports, you will need to first register for a SourceForge userid at <https://sourceforge.net/user/registration>. When reporting a bug, please try to provide as much information as possible to help developers determine the cause of the issue. Sample program code that can reproduce your problem will make it easier to debug reported problems.

Documentation Feedback

You can submit feedback for, or report errors in, the documentation at <https://sourceforge.net/p/oorexx/documentation>. Please try to provide as much information in a documentation report as possible. In addition to listing the document and section the report concerns, direct quotes of the text will help the developers locate the text in the source code for the document. (Section numbers are generated when the document is produced and are not available in the source code itself.) Suggestions as to how to reword or fix the existing text should also be included.

Request For Enhancement

You can suggest new ooRexx features or enhancements at <https://sourceforge.net/p/oorexx/feature-requests>.

Patch Reports

If you create an enhancement patch for ooRexx please post the patch at <https://sourceforge.net/p/oorexx/patches>. Please provide as much information in the patch report as possible so that the developers can evaluate the enhancement as quickly as possible.

Please do not post bug fix patches here, instead you should open a bug report at <https://sourceforge.net/p/oorexx/bugs> and attach the patch to it.

The ooRexx Forums

The ooRexx project maintains a set of forums that anyone may contribute to or monitor. They are located at <https://sourceforge.net/p/oorexx/discussion>. There are currently three forums available: Help, Developers and Open Discussion. In addition, you can monitor the forums via email.

3.2. The Rexx Language Association Mailing List

The Rexx Language Association maintains a forum at <https://groups.io/g/rexxla-members/topics>.

4. Related Information

See also: *Open Object Rexx: Reference*

What is RxFtp?

RxFtp is an Object Rexx Class library providing access to the TCP/IP FTP interface based on RFC 959.

It is assumed that you are familiar with the basic FTP functionality and can reference those specific to the system. For more information, refer to the book *Internetworking with TCP/IP, Volume I: Principles, Protocols and Architecture* by Douglas Comer (Prentice Hall PTR).

The RxFtp package requires the RxSock external function package supplied with Open Object Rexx.

Installation

The RxFTP package is contained in the file *rxftp.cls*. This file must be placed in a directory listed in your PATH. To get access to the class and methods in the RxFTP package you must include a `::REQUIRES` directive in any Object Rexx script that uses the class:

```
.  
. .  
. .  
::requires "rxftp.cls"
```

You instantiate an instance of the class using the normal Object Rexx conventions.

```
myftpobj = .rxftp~new
```

Each instance of the class completely encapsulates a connection to an FTP server. This means that you can instantiate multiples instance of the class and have multiple open connections to FTP servers simultaneously.

2.1. Notes on Using RxFTP

1. The FtpProxy method does not exist in the RxFTP class.
2. Firewalls can prevent many of the RxFTP methods from working properly. Active and passive mode transfers can both be restricted by the use of firewalls. This especially applies to active mode transfers when the client is running a firewall locally (like WindowsXP SP2 or any modern Linux distribution).
3. Each instance of the RxFTP class you instantiate has its own connection to an FTP server. Thus you can instantiate multiple instance of this class and connect to multiple FTP servers simultaneously. Also, each instance can be reused - the FtpLogoff method reinitializes the instance and a following FtpSetUser method can establish a new connection to an FTP server.

RxFtp Method Reference

The following sections describe how the individual methods available in RxFtp are invoked from the Rexx programming environment:

- [Section 3.1, “FtpAnnotateLog”](#)
- [Section 3.2, “FtpAppend”](#)
- [Section 3.3, “FtpChDir”](#)
- [Section 3.4, “FtpDelete”](#)
- [Section 3.5, “FtpDir”](#)
- [Section 3.6, “FtpGet”](#)
- [Section 3.7, “FtpGetMode”](#)
- [Section 3.8, “FtpGetType”](#)
- [Section 3.9, “FtpLogoff”](#)
- [Section 3.10, “FtpLs”](#)
- [Section 3.11, “FtpMkDir”](#)
- [Section 3.12, “FtpPut”](#)
- [Section 3.13, “FtpPutUnique”](#)
- [Section 3.14, “FtpPwd”](#)
- [Section 3.15, “FtpQuote”](#)
- [Section 3.16, “FtpRename”](#)
- [Section 3.17, “FtpRmDir”](#)
- [Section 3.18, “FtpSetMode”](#)
- [Section 3.19, “FtpSetType”](#)
- [Section 3.20, “FtpSetUser”](#)
- [Section 3.21, “FtpSite”](#)
- [Section 3.22, “FtpSys”](#)
- [Section 3.23, “FtpTrace”](#)
- [Section 3.24, “FtpTraceLog”](#)
- [Section 3.25, “FtpTraceLogoff”](#)
- [Section 3.26, “FtpVersion”](#)

3.1. FtpAnnotateLog

The FtpAnnotateLog adds a single line to the Trace Log if tracing is on. Otherwise no action is performed.

Syntax:



Arguments:

line

The line to be added to the log.

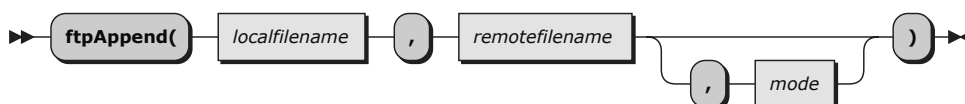
Return Value:

None.

3.2. FtpAppend

The FtpAppend method appends a file to another file on the FTP server. If the target file on the server does not exist it is created.

Syntax:



Arguments:

localfilename

The filename and optional path where the source file is stored.

remotefilename

The filename and optional path of the target file for the append operation on the FTP server. If the path is not given the current directory on the ftp server will be used. If the file does not exist it will be created.

mode

The file transfer mode, either 'ASCII' or 'BINARY'. If the argument is not given the current mode will be used.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.3. FtpChDir

The FtpChDir method changes the current directory on the FTP server. If this command fails the directory on the server remains unchanged.

Syntax:

**Arguments:***newdir*

The directory name and optional path to the directory to be made the current directory.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.4. FtpDelete

The FtpDelete method deletes the specified file on the FTP server.

Syntax:**Arguments:***filename*

The filename and optional path to the file to be deleted. If the path is not given the file will be deleted from the current directory on the ftp server.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.5. FtpDir

The FtpDir method returns a listing (in long format) of a directory on the server. The directory listing is placed in the attribute *Response* as an Object Rexx array of lines. The array will be empty if this method encounters an error.

The format of the returned directory listing depends on the operating system running on the FTP server machine.

Syntax:**Arguments:***pattern*

The filename pattern to use to filter the directory listing. You can use the standard '*' and '?' wildcard characters in the pattern. This argument is optional. If this argument is not specified the default pattern './*' will be used.

Return Values:

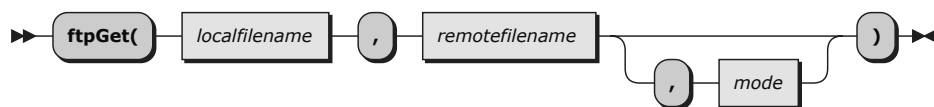
A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method `FtpErrno`. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.6. FtpGet

The `FtpGet` method gets a single file from the FTP server.

Syntax:**Arguments:***localfilename*

The filename and optional path where the retrieved file will be stored. If the path is not given the file will be placed in the user's current directory.

remotefilename

The filename and optional path to the file to be retrieved. If the path is not given the file will be retrieved from the current directory on the ftp server.

mode

The file transfer mode, either 'ASCII' or 'BINARY'. If the argument is not given the current mode will be used.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method `FtpErrno`. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.7. FtpGetMode

The `FtpGetMode` method returns the file transfer mode on the FTP server.

Syntax:**Arguments:**

None.

Return Values:

Returns one of the following strings.

ACTIVE

The current transfer mode is active.

PASSIVE

The current transfer mode is passive.

3.8. FtpGetType

The *FtpGetType* method returns the file transfer type on the FTP server.

Syntax:**Arguments:**

None.

Return Values:

Returns one of the following strings.

ASCII

The current type is ASCII.

BINARY

The current type is binary.

3.9. FtpLogoff

The *FtpLogoff* method logs off the FTP server and closes the connection. It also reinitializes the instance of the class so it can be used again.

Syntax:**Arguments:**

None.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method *FtpErrno*. Possible values:

FTPCOMMAND

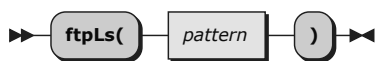
The internal FTP command or the arguments to the method are in error.

3.10. FtpLs

The *FtpLs* method returns a listing (in short format) of a directory on the server. The directory listing is placed in the attribute *Response* as an Object Rexx array of lines. The array will be empty if this method encounters an error.

Each member of the array containing the directory listing usually only contains the name of a file in the specified directory. But the format may be different in some cases.

Syntax:



Arguments:

pattern

The filename pattern to use to filter the directory listing. You can use the standard '*' and '?' wildcard characters in the pattern. This argument is optional. If this argument is not specified the default pattern './*' will be used.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

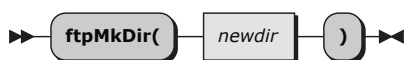
FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.11. FtpMkDir

The FtpMkDir method creates a new subdirectory on the FTP server.

Syntax:



Arguments:

newdir

The name and optional path to the new directory.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

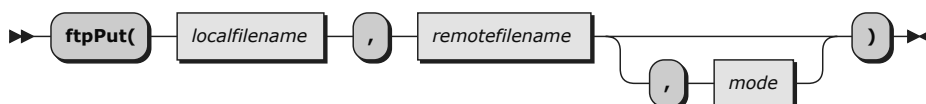
FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.12. FtpPut

The FtpPut method sends a single file to the FTP server.

Syntax:



Arguments:

localfilename

The filename and optional path where the source file is stored.

remotefilename

The filename and optional path used to store the file on the FTP server. If the path is not given the file will be stored in the current directory on the ftp server.

mode

The file transfer mode, either 'ASCII' or 'BINARY'. If the argument is not given the current mode will be used.

Return Values:

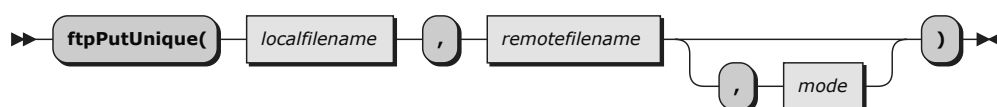
A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.13. FtpPutUnique

The FtpPut method sends a single file to the FTP server. If the file exists on the server it is not replaced and a new name is assigned to the file sent from the client.

Syntax:**Arguments:***localfilename*

The filename and optional path where the source file is stored.

remotefilename

The filename and optional path used to store the file on the FTP server. If the filename exists then a new filename is used. If the path is not given the file will be stored in the current directory on the ftp server.

mode

The file transfer mode, either 'ASCII' or 'BINARY'. If the argument is not given the current mode will be used.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.14. FtpPwd

The FtpPwd method returns the current directory name and path on the FTP server. The information is placed in the attribute Response as an Object Rexx array of lines. However, this method always returns a single line to the array if it succeeds. The array will be empty if this method encounters an error.

Syntax:



Arguments:

None.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.15. FtpQuote

The FtpQuote method sends a command to the FTP server.

Syntax:



Arguments:

cmd

The command to be executed on the server.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.16. FtpRename

The FtpRename method renames an existing file on the FTP server. On Unix FTP server this command can also move a file from one subdirectory to another with either a new or its old name.

Syntax:



Arguments:

oldfile

The name and optional path of the file to be renamed.

newfile

The new name and optional path of the file.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

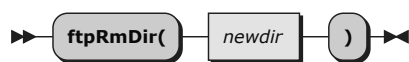
FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.17. FtpRmDir

The FtpRmDir method removes a subdirectory on the FTP server.

Syntax:



Arguments:

newdir

The name and optional path to the directory to be removed.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

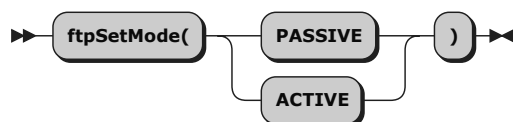
FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.18. FtpSetMode

The FtpSetMode method changes the passive/active mode used for file transfers to/from the FTP server.

Syntax:



Arguments:

PASSIVE

Sets passive mode for file transfers. Only the first letter of the argument is significant and it is not case-sensitive.

ACTIVE

Sets active mode for file transfers. Only the first letter of the argument is significant and it is not case-sensitive.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method `FtpErrno`. Possible values:

FTPCOMMAND

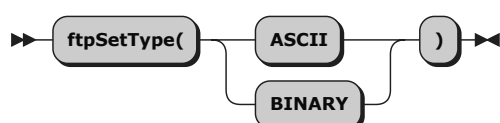
The internal FTP command or the arguments to the method are in error.

If an error is returned the mode remains unchanged.

3.19. FtpSetType

The `FtpSetType` method changes the file transfer type on the FTP server.

Syntax:



Arguments:

ASCII

Changes the file transfer type on the FTP server to ASCII. Only the first letter of the argument is significant and it is not case-sensitive.

BINARY

Changes the file transfer mode on the FTP server to binary. Only the first letter of the argument is significant and it is not case-sensitive.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method `FtpErrno`. Possible values:

FTPCOMMAND

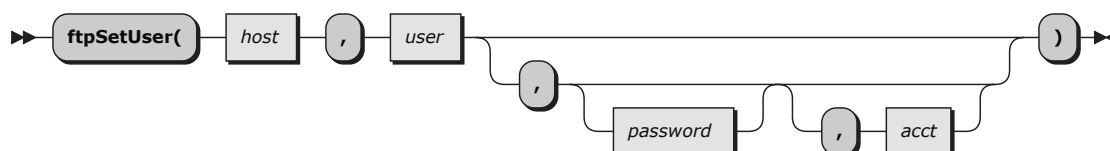
The internal FTP command or the arguments to the method are in error.

If an error is returned the type remains unchanged.

3.20. FtpSetUser

The `FtpSetUser` method creates a session with an FTP server and logs the user on.

Syntax:



Arguments:

host

The host name or TCP/IP address of the FTP server.

user

The user name for the server.

password

(optional) The user password.

acct

(optional) The accounting information for the user.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method `FtpErrno`. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

FTPHOST

Unknown *host* name or server not responding.

FTPSOCKET

RxSock function error.

FTPCONNECT

Server not responding or not available.

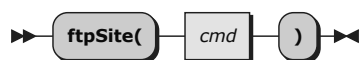
FTPLOGIN

user, *password* or *acct* information is invalid.

3.21. FtpSite

The `FtpSite` method sends a `Site` command to the FTP server.

Syntax:



Arguments:

cmd

The `Site` command to be executed on the server.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method `FtpErrno`. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.22. FtpSys

The `FtpSys` method returns the operating system description information from FTP server. The information is placed in the attribute `Response` as an Object Rexx array of lines. However, this method always returns a single line to the array if it succeeds. The array will be empty if this method encounters an error.

Syntax:

**Arguments:**

None.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.23. FtpTrace

The FtpTrace method starts the tracing of FTP commands. The initial state is off. If tracing is on the FTP commands sent to the server and their responses will be displayed.

Syntax:**Arguments:**

None.

Return Values:

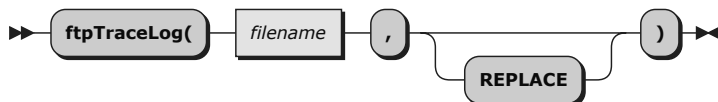
A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.24. FtpTraceLog

The FtpTraceLog method causes all FTP commands and responses in the current trace buffer to be written to a log file.

Syntax:**Arguments:**

filename

The filename and optional path to the log file.

REPLACE

If this argument is given then if the log file exists it will be replaced. The default is to append the trace output to the log file. Only the first letter of the argument is significant.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.25. FtpTraceLogoff

The FtpTraceLogoff method stops the tracing of FTP commands.

Syntax:**Arguments:**

None.

Return Values:

A value of 0 indicates successful execution of the method. The value -1 indicates an error. You can get the specific error code by inspection of the method FtpErrno. Possible values:

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

3.26. FtpVersion

The FtpVersion method returns the version number of the RxFtp class in the form of x.x.x.

Syntax:**Arguments:**

None.

RxFtp Additional Method Attributes

The following sections describe the additional method attributes available in the RxFtp class.

- BufSize
- CmdResponse
- CR_Remove
- Debug
- FtpErrno
- Response

4.1. BufSize

The BufSize method attribute contains the size of the buffer used by RxFtp methods. The default is 4096 and you can change this to any positive integer value.

Increasing this value may speed your FTP transactions, but making it too large may slow them down. Experimentation may be called for.

Example:

The following will display the BufSize and reset it to 8192.

Example 4.1. RxFtp class - bufSize method

```
say myftpobj~bufSize
myftpobj~bufSize = 8192
```

4.2. CmdResponse

The CmdResponse method attribute is an Object Rexx array which contains the commands sent to the FTP server and the responses received from the server. Items are continually added to this array for each method invoked during the session with the server.

This array is a complete record of the command/response activity between the client and the server.

Example:

The following will display the CmdResponse array.

Example 4.2. RxFtp class - cmdresponse method

```
do i = 1 to myftpobj~cmdresponse~items
  say myftpobj~cmdresponse[i]
end
```

4.3. CR_Remove

The CR_Remove method attribute is always in one of two states. If it is set to .true then carriage return characters ('0D'x) are removed from ASCII downloads when the class is running on a Unix platform. If it is set to .false then CR bytes are retained in the locally stored file.

This attribute is ignored for non-Unix machines.

The default value is .true.

Example:

The following will disable the removal of CR bytes.

Example 4.3. RxFTP class - CR_Remove method

```
myftpobj~cr_remove = .false
```

4.4. Debug

The Debug method attribute is always in one of two states. If it is set to .true then debug messages will be sent to STDOUT. If it is set to .false then all debugging messages will be suppressed.

The default value is .false.

Example:

The following will enable the debugging messages.

Example 4.4. RxFTP class - debug method

```
myftpobj~debug = .true
```

4.5. FtpErrno

The FtpErrno method attribute contains extended information when a method return an error. It is a simple string value or a zero-length string when the method is successful.

These are the possible values for FtpErrno.

FTPCOMMAND

The internal FTP command or the arguments to the method are in error.

FTPHOST

Unknown *host* name or server not responding.

FTPSOCKET

RxSock function error.

FTPCONNECT

Server not responding or not available.

FTPLOGIN

Invalid login information was supplied.

Example:

The following will display the FtpErrno.

Example 4.5. Rxftp class - ftperrno method

```
if myftpobj~ftperrno <> "" then say myftpobj~ftperrno
```

4.6. Response

The Response method attribute is always in one of two states. If it is set to .nil then the command did not generate a response. In all other cases the Response is an Object Rexx array object with each array entry containing a single line of the response.

A typical value for Response would be the lines from the server directory listing in response to invoking the FtpDir method.

Example:

The following will display the Response array.

Example 4.6. Rxftp class - response method

```
if myftpobj~response <> .nil then do i = 1 to myftpobj~response~items  
  say myftpobj~response[i]  
end
```

Appendix A. Sample RxFTP Program

The following is a sample program using REXX FTP Class Library methods.

Example A.1. RxFTP class - sample program

```
/*=====*/
/* Basic RxFTP sample to send a file with cmd/reply logging */
/*=====*/
/* Define the variables for: */
server = "127.0.0.1" /* IP address or server name */
userid = "remote_user_ID"
passwd = "password_of_remote_user"
trclog = "logfile.txt" /* Trace log file name */
retc = 0 /* Set return code to 0 */

myftp = .rxftp~new()

/* Start tracing FTP commands and logging of replies */
retc = myftp~FtpTrace()

/* Trace log file will be replaced, not appended to. */
retc = myftp~FtpTraceLog(trclog, "R")
If retc = 0 then Say " Replies will be written to log file: "trclog"."
Else Say " No writing to log file: "trclog" possible."

/* Define remote host and user to be used during the session */
retc = myftp~FtpSetUser(server, userid, passwd)
If retc = 0 then Say " Connection established."
Else Call Terminate " *** Connection failed."

/* Transfer an ASCII file to the remote ftp server */
retc = myftp~FtpPut("sample.rex", "sample.put", "ASCII")
If retc = 0 then Call Terminate " File has been sent. "
Else Call Terminate " *** File has NOT been sent."

/* Terminate the file transfer */
Terminate:
Parse Arg Message
Say Message
Say "FtpErrNo =" myftp~ftperrno

retc = myftp~FtpLogoff()

retc = myftp~FtpTraceLogoff()
retc = myftp~FtpTrace()

exit retc

::requires "rxftp.cls"
```

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The railroad diagrams were generated with the help of "Railroad Diagram Generator" located at <https://github.com/GuntherRademacher/rr>. Special thanks to Gunther Rademacher for creating and maintaining this tool.



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Version 1.0

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Appendix D. Revision History

Revision 0-0 Aug 2016

Initial creation for 5.0

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