

Application Note

>> ANw7.2: Uploading a FTP file

TARGET	B40h-09gg + eDsoft-W302 v1.0
NEED	Uploading a file to a remote FTP server

CONFIGURATION

FTP server address	Defines the address of the remote FTP server. AT# FTPSERV
FTP client authentication	Defines the login / password required to access the FTP server. AT# FTPUN, FTPPW
FTP file path and name	Prior to instructing the Wavecom product to put a file onto the FTP server, it is necessary to specify the path and the name of the file that will be created on the remote server. AT# FTPPUTPATH, FTPPUTFILENAME
FTP file type	This parameter defines if the file is sent in ASCII (A) or binary mode (I). When set to ASCII all the data sent by the Wavecom product to the FTP server is made of 7 bits characters (NVT-ASCII: the MSB is set to 0). As a consequence binary data containing 8 bits characters will be corrupted during the transfer if the FTPTYPE is set to ASCII. AT# FTPTYPE
FTP server ports	For some installations (due to specific firewall, proxy or router configurations) the TCP control port number used by the remote FTP server may need to be changed. In most of the cases this is not necessary and the default value for the FTP control port is 21. AT# FTPPORT

OPERATION

Starting the upload	Once an IP link is established, this command directs the Wavecom product to logon to the remote FTP server and then to start the upload of the specified file by issuing a standard PUT command. AT# FTPPUT
Data flow	The Wavecom product returns the 'Ok_Info_WaitingForData' message for indicating to the attached host that the data connection has been opened for transmitting the file. Then, all the data received from the serial port is sent during the data connection session without echo. The [ETX] character is sent by the attached host and echoed to notify that the data connection is closed (meaning the host has completed the file transfer). As a consequence an [ETX] character to be sent within the file must be transmitted on the serial port as a [DLE][ETX] and a [DLE] as a [DLE][DLE]. The Wavecom product then decodes the data received on the serial port and sends [ETX] or [DLE] in the payload data.

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Stopping the upload	<p>The attached host can stop the transfer by sending an [ETX] character. This character is echoed.</p> <p><i>[ETX] CTRL+C sequence in a keyboard.</i></p>
End of upload	<p>The host indicates to the Wavecom product the closing of the data connection by sending an [ETX] character which is echoed.</p> <p>The response message that follows the data transfer, sent by the Wavecom product, signal whether the file has been successfully received or not : 'Ok' or '#CME ERROR: Value'</p>
NOTE	<p>The user rights for over-writing an existing file in a FTP server depends on the FTP server's configuration and if incorrectly set can result in failure of the FTP attempt.</p>

LINKS

AT# PARAMETERS	FTPSERV, FTPUN, FTPPW, FTTPUTPATH, FTTPUTFILENAME, FTPTYPE, FTTPORT
AT# COMMANDS	FTTPUT
APP. NOTES	ANFTP_Download (ANw7.1) - ANFlow_Control (ANw1.4)

PROCESS DIAGRAM

