EDS*ELIT

FTP Server
Users Guide

Introduction:

The EDS*ELIT subsystem is the primary bulk data transmission software for the EDS enterprise. This software provides a data interconnect for the major legacy systems across the corporate network. With the integration of "Open Systems" based platforms into the mainframe environment, the requirement for the same reliable data transport has emerged. The EDS*ELIT software product has been extended to support TCP/IP, a Web based front end, and the FTP protocol. This document will explain the FTP Server interface to the EDS*ELIT product. It assumes a basic understanding of FTP commands and functions.

The ELIT FTP Server implements the standard FTP protocol as documented by RFC-959. The user will connect to the server using FTP client software found on the user' workstation. The parameters of some of the standard FTP commands have been extended to take advantage of the advanced capabilities of the EDS*ELIT product.

The EDS*ELIT software identifies individual files by the following six data elements.

ELIT Filename:	Specified by the user during data delivery. The ELIT filename can be used to trigger post processing at the destination host.	1-10 chars
SenderId:	The user or location of where the data originated.	3-17 chars
ReceiverId:	The user or location of where the data is to be delivered.	3-17 chars
Reference #:	Specified by the user during data delivery to further identify the data.	1-35 chars
Control #:	Assigned by the EDS*ELIT software to identify an individual file.	
DataSetName:	The data set name of the file at the originating host.	1-44 chars

The directory parameter for the DIR, LS or NLST, and MGET commands in the ELIT FTP server environment requires a slightly different syntax than the standard FTP format. This parameter can optionally contain several comma separated keyword value pairs for file selection.

> "f=xxx"   Where xxx specifies a specific ELIT Filename or mask.
> "s=xxx"   Where xxx specifies a specific SenderId or mask.
> "r=xxx"   Where xxx specifies a specific Reference # or mask.
> "d=xxx"   Where xxx specifies a specific DataSetName or mask.
> "c=xxx"   Where xxx specifies a specific Control #.
> "fd"   Indicates a request to include only files sent using the ReceiverID of "FROMDATA".
> "all"   Indicates a request to include files that have already been obtained.
> "sn"   Indicates a request to use system generated DataSetNames.

A masked value can include an asterisk at the beginning, the end, or both.

Examples:

f=*data1,r=n621   Include all files with a ELIT filename ending with "data1",
                                   and a reference number equal to "n621".

s=user*,d=*edi*   Include all files with a SenderId that begins with "user",
                                   and a DataSetName that contains the string "edi".

FTPServer Logon:

The standard FTP logon procedure has been enhanced to allow the user to change their
password. The client can supply a new password after the existing password separated by
a slash. The new password will become effective during the next session.

Delivering a file to EDS*ELIT:

In order to initiate a delivery request the user must identify the recipient of the data. This
can be accomplished using four different methods.

1. The FTP "CD" Command.
2. The FTP "SITE" Command (or Quote SITE).
3. Including the routing information in the FTP "PUT" Command.
4. Indicating that the routing information should be extracted from the EDI Document.

CD Command:

The FTP "CD" command can be used to specify the SenderId, ReceiverId, ELIT
Filename, Reference #, and data format. The SenderId defaults to the user that logged on.
If a unique SenderId is required, it is supplied as the first token, and must be prefixed
with a slash. Missing parameters should be specified with a period (".") as a placeholder.
The command syntax follows:

```
cd /SenderId/ReceiverId/ELIT-Filename/RefNo/STRIPLF|KEEPLF
```

Examples:

cd /user2/user1/aaadata   The next put command will deliver the data
                                   specified to "user1" from "user2", with an ELIT
                                   filename of aaadata.

cd user1/xyzbilling/day33   The next put command will deliver the data
                                   specified to "user1" from the logged on user, with a

ELIT filename of "xyzbilling", and a reference number of "day33".

cd alk/abcinvoice/./keeplf   The next put command will deliver the data specified to user "alk" from the logged on user, with a ELIT filename of "abcinvoice", no reference number (placeholder "."), and the data format should maintain all carriage control and/or line feed characters.

The "STRIPLF" parameter will remove carriage return (CR) and/or line feed (LF) characters from files being sent and only applies to files sent to MVS systems in ASCII mode.
This option is normally specified when transmitting text data or data which is wrapped with CISCO-type header and trailer records.

The "KEEPLF" parameter will NOT remove carriage return (CR) and/or line feed (LF) characters from files being sent and only applies to files sent to MVS systems in ASCII mode.
This option is normally specified when transmitting EDI-type documents.

Site Command:

Another method of specifying the routing information, as well as other parameters, is with the FTP "SITE" command. The "SITE" command will accept comma or blank delimited keyword / value pairs for the required information. The available keywords are:

```
SID=SenderId,RID=ReceiverId,FNM=ELIT-Filename,REF=RefNo,STRIPLF|
KEEPLF,LRECL=RecSize,FB=ELIT-Filename
```

See previous descriptions for SenderId, ReceiverId, ELIT-Filename, and RefNo.

STRIPLF	Remove carriage return and line feed characters from files being sent. This only applies to files sent to MVS systems in ASCII mode.	keyword
KEEPLF	Do not remove carriage return and line feed characters from files being sent. This only applies to files sent to MVS systems in ASCII mode.	keyword
LRECL=RecSize	Specifies the record length for files destined for the MVS platform.	value of 1 to 9999
FB=ELIT-Filename	Requests a feedback file indicating the results of the delivery. See the *EDS*ELIT General Users Guide*	1-10 chars

| | for a description of feedback files. | |

Examples:

```
quote site sid=user2,rid=user1,fnm=aaadata
```

The next put command will deliver the data specified to "user1" from "user2", with a ELIT filename of aaadata.

```
quote site rid=user1,fnm=xyzbilling,ref=day33
```

The next put command will deliver the data specified to "user1" from the logged on user, with a ELIT filename of "xyzbilling", and a reference number of "day33".

```
quote site lrecl=80
```

The next put command to a MVS destination will deliver a dataset with 80 byte records.

PUT Command:

The routing information can also be included in the FTP "PUT" command by specifying the full directory structure on the output file. The syntax would follow the same rules as the "CD" command. The EDS*ELIT software can also extract the routing information from EDI data files. The reserved ReceiverId of "FROMDATA" will initiate this process. The routing information found in the EDI document controls the transmission.

```
SID=SenderId,RID=ReceiverId,FNM=ELIT-Filename,REF=RefNo,STRIPLF/
KEEPLF,LRECL=RecSize,FB=ELIT-Filename
```

The FTP "PWD" command can be used to display the current settings of the SenderId, ReceiverId, ELIT Filename, Reference #, and the KEEPLF flag. Prior to issuing the "PUT" command, the user should be aware of the current setting of the representation type. The FTP RFC specifies that the server default setting should be "ascii". If the user wants to guarantee an exact copy of the file to be transmitted to the Receiver, the representation type should be set to "Image" by using the "binary" command. When transmitting text files to a MVS system, the "ascii" format will indicate that the data should be translated from ascii to ebcdic, and stripped of carriage control and line feeds.

The FTP "PUT" command will initiate the file delivery. Because the standard FTP protocol does not have a method to acknowledge a completed data transfer, the file will not be marked as delivered until the user issues another command. This technique ensures that the network connection was intact for the entire data transfer. The next command

will indicate the acceptance of the file into the EDS*ELIT subsystem. This process will not affect a normal FTP dialog, as the "QUIT" command will close out the final data transfer of a session.

The following example shows a typical deliver of a single file:

```
C:\temp>ftp phoenix
Connected to phoenix.ahipc.eds.com.
220-
220-          Welcome to the EDS*ELIT FTP Server
220
User (phoenix.ahipc.eds.com:(none)): user2
331 Username "user2" needs password
Password:
230 User "user2" succesfully logged in

ftp> cd gz4p9c/xyzbilling/day33
250 SenderId: "USER2" ReceiverId: "GZ4P9C" ELIT-FileName: "XYZBILLING"
    RefNo: "DAY33" STRIPLF

ftp> put billing.dat
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
9126 bytes sent in 0.00 seconds (9126000.00 Kbytes/sec)
ftp> pwd
257 SenderId: "USER2" ReceiverId: "GZ4P9C" ELIT-FileName: "XYZBILLING"
    RefNo: "DAY33" STRIPLF XYZBILLING.GZ4P9C.DAY33.billing.dat Acked.

ftp> put billing.dat user1/xyzbilling/day33/newbilling.dat
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
9126 bytes sent in 0.00 seconds (9126000.00 Kbytes/sec)
ftp> pwd
257 SenderId: "USER2" ReceiverId: "USER1" ELIT-FileName: "XYZBILLING"
    RefNo: "DAY33" STRIPLF XYZBILLING.USER1.DAY33.newbilling.dat Acked.

ftp> quit
221 User logged out and closing connection
```

The following example shows a typical deliver of multiple files:

```
C:\temp>ftp phoenix
Connected to phoenix.ahipc.eds.com.
220-
220-          Welcome to the EDS*ELIT FTP Server
220
User (phoenix.ahipc.eds.com:(none)): user2
331 Username "user2" needs password
Password:
230 User "user2" succesfully logged in

ftp> cd user1/billdata/5days
250 SenderId: "USER2" ReceiverId: "USER1" ELIT-FileName: "BILLDATA"
    RefNo: "5DAYS" STRIPLF
ftp> prompt off
Interactive mode Off.

ftp> mput billday*.dat
```

```
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
9126 bytes sent in 0.00 seconds (9126000.00 Kbytes/sec)
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
    BILLDATA.USER1.5DAYS.billday1.dat Acked.
9126 bytes sent in 0.00 seconds (9126000.00 Kbytes/sec)
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
    BILLDATA.USER1.5DAYS.billday2.dat Acked.
9126 bytes sent in 0.02 seconds (570.38 Kbytes/sec)


200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
    BILLDATA.USER1.5DAYS.billday3.dat Acked.
9126 bytes sent in 0.00 seconds (9126000.00 Kbytes/sec)
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
    BILLDATA.USER1.5DAYS.billday4.dat Acked.
9126 bytes sent in 0.00 seconds (9126000.00 Kbytes/sec)

ftp> pwd
257 SenderId: "USER2" ReceiverId: "USER1" ELIT-FileName: "BILLDATA"
    RefNo: "5DAYS" STRIPLF BILLDATA.USER1.5DAYS.billday5.dat Acked.

ftp> quit
221 User logged out and closing connection
```

Note that when using "MPUT" the automatic "PUT" command of each file will initiate
the acknowledgement of the prior file. Only the last file delivered requires an extra
command to confirm a complete transmission.

Checking the Status of files:

The FTP "DIR" command is the primary source for file status information to the user.
The format of the output of this command has been enhanced to provide information that
is unique to the ELIT FTP Server environment.
For sites that logon as a single user, the default "DIR" command will produce a display
much like a standard Unix system. If issued prior to a "CD" command, the output will
contain all files that are available to be retrieved. The file permission field will be set to
"-r-------" for files not yet retrieved, and "-rwx------" for files previously obtained. The
group ownership field will contain the ELIT Filename. If the "DIR" command is issued
after a "CD" command, the display will show all of the files delivered to the currently
active ReceiverId. The "all" keyword will trigger a display of all the data elements that
identify a file to the system, and two additional fields. The "Status" column will indicate
the current state of the file within the EDS*ELIT subsystem. See the table below for
specific meaning. The "Deliver Date" column will display the date and time that the file

was obtained by the ReceiverId, or unloaded at the specified location. The "DIR" command will accept the expanded search criteria as documented in the introduction section of this guide. The use of the "sn" keyword will change the default display from including the "DataSetName and FileSize" to "ELIT-Filename and Ctl#". The output of the enhanced "DIR" command will include both the files you have attempted to deliver, and the files that have been sent to you. For a more detailed status on a specific file, use the "c" keyword and specify the Ctl #. The "fd" keyword pertains only to files sent from the current FTP session with the "FROMDATA" ReceiverId.

For sites that logon as multiple users (Elit code defined as a switcher), the default "DIR" command will produce a display much like the standard Unix system. The output will contain all files that are available to be retrieved for all the sites defined under the switcher code. The file permission field will be set to "-r-------" for files not yet retrieved, and "-rwx------" for files previously obtained. The group ownership field will contain the ELIT Filename. The use of the "CC=customercode" command will result in output that will contain all files for the site "customercode" provided the "customercode" is a valid site that switches through the logged on switcher site. The enhanced "DIR" command produces the same results as the "DIR" command when the user is logged on as a switcher. All other parameters remain in effect.

DELIVERED	The file was successfully delivered to the specified location.
IN TRANSIT	File delivery is in-progress.
OBTAINABLE/ MAILBOXED	The file is waiting to be picked it up.
OBTAINED/ PICKED UP	The file was successfully picked up.
ERROR	An attempt to deliver the file resulted in an error.

Examples:

```
C:\temp>ftp phoenix
Connected to phoenix.ahipc.eds.com.
220-
220-          Welcome to the EDS*ELIT FTP Server
220
User (phoenix.ahipc.eds.com:(none)): user2
331 Username "user2" needs password
Password:
230 User "user2" successfully logged in

ftp> dir
200 PORT Command Successful
150 Opening data connection
-r-------- 1 USER2     INVOICE    00185836 Jul 05 2000 invoice.dat.00045
-r-------- 1 USER2     INVOICE    00185836 Jul 06 2000 invoice.dat.00044
-rwx------ 1 USER2     TLTEST     00000183 Jun 22 2000 ASCII.TXT.00025
226 Transfer completed successfully.  Data connection closed.
434 bytes received in 0.02 seconds (27.13 Kbytes/sec)

ftp> cd user1
250 SenderId: "USER2" ReceiverId: "USER1" ELIT-FileName: "TCPIPDLVR"
    RefNo: "TCPIP" STRIPLF

ftp> dir
200 PORT Command Successful
150 Opening data connection
-r-------- 1 USER1     BILLDATA   00009126 Jul 05 2000 billday1.dat.00076
-r-------- 1 USER1     BILLDATA   00009126 Jul 05 2000 billday2.dat.00077
-r-------- 1 USER1     BILLDATA   00009126 Jul 05 2000 billday3.dat.00078
-r-------- 1 USER1     BILLDATA   00009126 Jul 05 2000 billday4.dat.00079
-r-------- 1 USER1     BILLDATA   00009126 Jul 05 2000 billday5.dat.00080
226 Transfer completed successfully.  Data connection closed.
370 bytes received in 0.02 seconds (23.13 Kbytes/sec)

ftp> dir all
200 PORT Command Successful
150 Opening data connection
DataSetName     Status    Sender   Receiver FileSize RefNo     Deliver Date
billday3.dat    RDY   SEND USER2    USER1    00009126 5DAYS
billday4.dat    RDY   SEND USER2    USER1    00009126 5DAYS
billday5.dat    RDY   SEND USER2    USER1    00009126 5DAYS
invoice.dat     RDY   SEND USER1    USER2    00185836 MONTH03
```

```
invoice.dat    RDY  SEND USER1    USER2    00185836 MONTH04
billday1.dat   DONE SEND USER2    USER1    00009126 5DAYS      06/19/2000 16:00
billday2.dat   DONE SEND USER2    USER1    00009126 5DAYS      06/19/2000 16:00
226 Transfer completed successfully.  Data connection closed.
561 bytes received in 0.00 seconds (561000.00 Kbytes/sec)

ftp> dir all,sn
200 PORT Command Successful
150 Opening data connection
Filename     Status     Sender    Receiver Ctl#   RefNo       Deliver Date
BILLDATA     RDY   SEND USER2     USER1    00078  5DAYS
BILLDATA     RDY   SEND USER2     USER1    00079  5DAYS
BILLDATA     RDY   SEND USER2     USER1    00080  5DAYS
INVOICE      RDY   SEND USER1     USER2    00045  MONTH03
INVOICE      RDY   SEND USER1     USER2    00044  MONTH04
BILLDATA     DONE  SEND USER2     USER1    00076  5DAYS       06/19/2000 16:00
BILLDATA     DONE  SEND USER2     USER1    00077  5DAYS       06/19/2000 16:00
226 Transfer completed successfully.  Data connection closed.
505 bytes received in 0.00 seconds (505000.00 Kbytes/sec)

ftp> dir all,d=inv*
200 PORT Command Successful
150 Opening data connection
DataSetName    Status     Sender    Receiver FileSize RefNo      Deliver Date
invoice.dat    RDY   SEND USER1     USER2    00185836 MONTH03
invoice.dat    RDY   SEND USER1     USER2    00185836 MONTH04
226 Transfer completed successfully.  Data connection closed.
206 bytes received in 0.00 seconds (206000.00 Kbytes/sec)

ftp> dir all,d=*day*,s=user2
200 PORT Command Successful
150 Opening data connection
DataSetName    Status     Sender    Receiver FileSize RefNo      Deliver Date
billday3.dat   RDY   SEND USER2     USER1    00009126 5DAYS
billday4.dat   RDY   SEND USER2     USER1    00009126 5DAYS
billday5.dat   RDY   SEND USER2     USER1    00009126 5DAYS
billday1.dat   DONE  SEND USER2     USER1    00009126 5DAYS    06/19/2000 16:00
billday2.dat   DONE  SEND USER2     USER1    00009126 5DAYS    06/19/2000 16:00
226 Transfer completed successfully.  Data connection closed.
431 bytes received in 0.00 seconds (431000.00 Kbytes/sec)

ftp> quit
221 User logged out and closing connection

Connected to w2kzzw3z02.mitry.us.eds.com.
220-
220-        Welcome to the EDS*ELIT FTP Server
220
User (w2kzzw3z02.mitry.us.eds.com:(none)): tcp1swi1
331 Username "tcp1swi1" needs password
Password:
230 User "TCP1SWI1" successfully logged in
ftp> dir sn
200 PORT Command Successful
150 Opening data connection
Filename     Status     Sender    Receiver Ctl#   RefNo       Deliver Date
TESTFILE     IN TRANSIT #88       TCP1CUST 00002  000000000 03/18/2002 15:14
TESTFILE     IN TRANSIT #88       TCP1CUST 00003  000000000 03/18/2002 15:14
TESTFILE     IN TRANSIT #88       TCP1CUST 00004  000000000 03/18/2002 15:14
TESTFILE     IN TRANSIT #88       TCP1CUST 00005  000000000 03/18/2002 15:14
TESTFILE     IN TRANSIT #88       TCP1CUST 00001  000000000 03/18/2002 15:14
226 Transfer completed successfully.  Data connection closed.
440 bytes received in 0.00 seconds (440000.00 Kbytes/sec)
```

```
ftp> dir cc=tcp1cust1
200 PORT Command Successful
150 Opening data connection
-r-------- 1 #88        TESTFILE    00000574 Mar 18 2002 KZZW3Z.X.CNTL(CPY).00002
-r-------- 1 #88        TESTFILE    00000574 Mar 18 2002 KZZW3Z.X.CNTL(CPY).00003
-r-------- 1 #88        TESTFILE    00000574 Mar 18 2002 KZZW3Z.X.CNTL(CPY).00001
-r-------- 1 TCP1CUST TESTFILE    00000560 Mar 15 2002 TESTFILE.TXT.00014
-r-------- 1 TCP1CUST TESTFILE    00000560 Mar 14 2002 TESTFILE.TXT.00012
226 Transfer completed successfully.  Data connection closed.
388 bytes received in 0.00 seconds (388000.00 Kbytes/sec)
ftp> quit
221 User logged out and closing connection
```

Obtaining files from EDS*ELIT:

The FTP "MGET" and "GET" commands are used to obtain files from the ELIT FTP
Server. Because multiple files can contain duplicate identification data elements, it is
important to understand the use of the ELIT Control Number. Files can be obtained with
the "MGET" command using the enhanced search criteria documented in the introduction
section of this guide. The ELIT system will generate a unique dataset name for the
downloaded file. By default this name will consist of the original "DataSetName", and
the "Control #". The user has the option of using the "sn" keyword on the "MGET"
command to generate a dataset name consisting of "ELIT-Filename", "SenderId",
"Reference#", "DataSetName", and "Control #". By default the "MGET" command will
only obtain files that have not already been downloaded. The user can override this action
by including the "all" keyword on the command line. A single individual file can be
obtained using the "GET" command by specifying the "Control #" as input, and a dataset
name as output.

Examples:

```
C:\WINNT\Profiles\gz4p9c\temp\demo>ftp phoenix
Connected to phoenix.ahipc.eds.com.
220-
220-          Welcome to the EDS*ELIT FTP Server
220
User (phoenix.ahipc.eds.com:(none)): user1
331 Username "user1" needs password
Password:
230 User "user1" successfully logged in

ftp> dir all
200 PORT Command Successful
150 Opening data connection
DataSetName    Status    Sender    Receiver FileSize RefNo      Deliver Date
billday3.dat   RDY   SEND USER2    USER1     00009126 5DAYS
billday4.dat   RDY   SEND USER2    USER1     00009126 5DAYS
billday5.dat   RDY   SEND USER2    USER1     00009126 5DAYS
invoice.dat    RDY   SEND USER1    USER2     00185836 MONTH03
invoice.dat    RDY   SEND USER1    USER2     00185836 MONTH04
billday1.dat   DONE SEND USER2    USER1     00009126 5DAYS      06/19/2000 16:00
billday2.dat   DONE SEND USER2    USER1     00009126 5DAYS      06/19/2000 16:00
226 Transfer completed successfully.  Data connection closed.
561 bytes received in 0.00 seconds (561000.00 Kbytes/sec)
```

```
ftp> prompt off
Interactive mode Off.

ftp> mget all
200 representation type now set to 'A'
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
9126 bytes received in 0.27 seconds (34.31 Kbytes/sec)
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
    billday3.dat.00078 Acked.
9126 bytes received in 0.14 seconds (64.72 Kbytes/sec)
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
    billday4.dat.00079 Acked.
9126 bytes received in 0.16 seconds (58.50 Kbytes/sec)

ftp> pwd
257 SenderId: "" ReceiverId: "" ELIT-FileName: "" RefNo: "" STRIPLF
    billday5.dat.00080 Acked.

ftp> dir all
200 PORT Command Successful
150 Opening data connection
DataSetName     Status      Sender      Receiver FileSize RefNo      Deliver Date
invoice.dat     RDY   SEND USER1        USER2    00185836 MONTH03
invoice.dat     RDY   SEND USER1        USER2    00185836 MONTH04
billday1.dat    DONE  SEND USER2        USER1    00009126 5DAYS      06/19/2000 16:00
billday2.dat    DONE  SEND USER2        USER1    00009126 5DAYS      06/19/2000 16:00
billday3.dat    DONE  SEND USER2        USER1    00009126 5DAYS      06/19/2000 17:45
billday4.dat    DONE  SEND USER2        USER1    00009126 5DAYS      06/19/2000 17:45
billday5.dat    DONE  SEND USER2        USER1    00009126 5DAYS      06/19/2000 17:46
226 Transfer completed successfully.  Data connection closed.
606 bytes received in 0.03 seconds (19.55 Kbytes/sec)

ftp> mget sn,d=bill*
200 representation type now set to 'A'
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
9126 bytes received in 0.09 seconds (98.13 Kbytes/sec)
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
    BILLDATA.USER2.5DAYS.billday1.dat.00076 Acked.
9126 bytes received in 0.13 seconds (73.01 Kbytes/sec)
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
    BILLDATA.USER2.5DAYS.billday2.dat.00077 Acked.
9126 bytes received in 0.06 seconds (144.86 Kbytes/sec)
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
    BILLDATA.USER2.5DAYS.billday3.dat.00078 Acked.
9126 bytes received in 0.19 seconds (48.54 Kbytes/sec)
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
```

```
     BILLDATA.USER2.5DAYS.billday4.dat.00079 Acked.
9126 bytes received in 0.08 seconds (117.00 Kbytes/sec)


ftp> pwd
257 SenderId: "" ReceiverId: "" ELIT-FileName: "" RefNo: "" STRIPLF
     BILLDATA.USER2.5DAYS.billday5.dat.00080 Acked.


ftp> dir all,sn
200 PORT Command Successful
150 Opening data connection
Filename    Status    Sender    Receiver Ctl#  RefNo      Deliver Date
INVOICE     RDY  SEND USER1     USER2    00045 MONTH03
INVOICE     RDY  SEND USER1     USER2    00044 MONTH04
BILLDATA    DONE SEND USER2     USER1    00076 5DAYS      06/19/2000 17:47
BILLDATA    DONE SEND USER2     USER1    00077 5DAYS      06/19/2000 17:47
BILLDATA    DONE SEND USER2     USER1    00078 5DAYS      06/19/2000 17:47
BILLDATA    DONE SEND USER2     USER1    00079 5DAYS      06/19/2000 17:47
BILLDATA    DONE SEND USER2     USER1    00080 5DAYS      06/19/2000 17:47
226 Transfer completed successfully.  Data connection closed.
550 bytes received in 0.01 seconds (36.67 Kbytes/sec)


ftp> get 76 mydata.dat
200 PORT Command Successful
150 Opening data connection
226 Transfer completed successfully.  Data connection closed.
9126 bytes received in 0.11 seconds (83.72 Kbytes/sec)
ftp> pwd
257 SenderId: "" ReceiverId: "" ELIT-FileName: "" RefNo: "" STRIPLF
     76 Acked.


ftp> quit
221 User logged out and closing connection

C:\WINNT\Profiles\gz4p9c\temp\demo>dir
 Volume in drive C is P410_NT40_C
 Volume Serial Number is 78CF-1F05


 Directory of C:\WINNT\Profiles\gz4p9c\temp\demo


06/19/00  05:35p       <DIR>          .
06/19/00  05:35p       <DIR>          ..
06/19/00  05:34p                9,126 BILLDATA.USER2.5DAYS.billday1.dat.00076
06/19/00  05:34p                9,126 BILLDATA.USER2.5DAYS.billday2.dat.00077
06/19/00  05:34p                9,126 BILLDATA.USER2.5DAYS.billday3.dat.00078
06/19/00  05:34p                9,126 BILLDATA.USER2.5DAYS.billday4.dat.00079
06/19/00  05:34p                9,126 BILLDATA.USER2.5DAYS.billday5.dat.00080
06/19/00  05:32p                9,126 billday3.dat.00078
06/19/00  05:32p                9,126 billday4.dat.00079
06/19/00  05:32p                9,126 billday5.dat.00080
06/19/00  05:35p                9,126 mydata.dat
             11 File(s)         82,134 bytes
                        138,572,800 bytes free

C:\WINNT\Profiles\gz4p9c\temp\demo>
```