

Reflection Desktop

21.0

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1. Reflection FTP

- FTP
 - Reflection FTP
 - FTP
 - FTP
 - FTP SFTP(SSH)
- []
- Windows PC
- SOCKS SSL/TLS Secure Shell
- [FTP] FTP listitems [FTP] []
- FTP []
- FTP FTP
- FTP
- ()
- FTP
- OLE FTP

2.

2.1

- Reflection FTP
- FTP
- FTP
-
-
- []
-
- Windows PC
-
- SOCKS/SSL/TLS/Secure Shell
-
- [FTP] FTP listitems ◦ { FTP } []
-
- FTP []
-
- FTP
-
- FTP
-
- ()
-
- FTP
-
- OLE FTP
-
- FTP
- [FTP]
- PC
-
- FTP
- FTP

2.2 [FTP]

[FTP] FTP ◦ {]-[] ◦ ,
◦

[] ◦ , ◦

[] FTP ◦ [FTP] ◦

[] , ◦

[] ◦

-
-
- FTP
- FTP
- FTP SFTP

2.3 PC

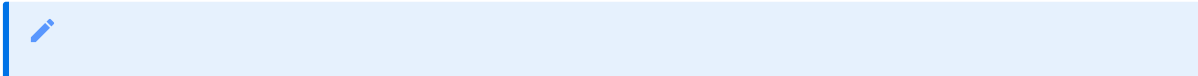
PC FTP [] [] ,
◦

PC

1. FTP ◦

2. ◦

3. , ◦



- , { } , ◦
- , { } 4 ◦

•

2.4

•FTP [] []

◦

1. FTP ◦

2. ◦

3. ◦

•FTP ◦



•FTP (•SFTP) []- [] ◦

• [] ◦

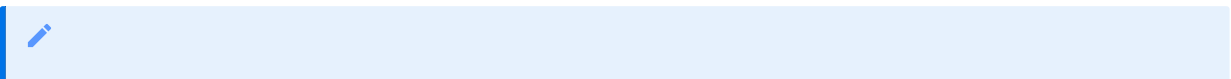
• [] 4 ◦

-
-
-
-

2.5 FTP

Reflection FTP

- [] []
- []
- [Settings.rfw]
- RFW



- []
- []
- Windows
- 13.0 Windows

• FTP

•

• FTP

2.6 FTP

- FTP
 -
 - FTP
 - FTP
 - FTP
 - API
 - API
 - Reflection FTP
 - API

3. FTP SFTP

3.1 FTP SFTP

-
-
-
-
- [FTP](#)

3.2

- FTP SFTP ◦
- [FTP] ◦
- ◦
- FTP OPEN ◦ [] [Open] ◦
- ◦
- []-[2] 2 ◦
- [FTP]
-
- FTP
-
- FTP
- FTP

3.3

[FTP] 。

FTP SFTP

1. FTP 。

[FTP] ([]-[])。

2. [] { FTP } 。

3. FTP (SFTP) IP { } 。

4. anonymous (SFTP anonymous)。

5. () [] [] 。

6. () { } [] 。



[] 。

7. FTP] 。

8. [] 。

9. { } 。

10. []-[] 。

• FTP SFTP

•

• FTP

3.4

’ °

1. []-[] °

2. [] °

[] ’ °

•

•

•

•

•

•

•

3.5

FTP

1. [] { } °

2. [] (NOOP) °

3. OK °



SFTP °SFTP { **Reflection Secure Shell**] [] []

3.6 FTP

3.6.1 FTP

SOCKS · SSL/TLS · Secure Shell ·

- SOCKS
-
- Secure Shell (FTP)
- SSL/TLS (FTP)

3.6.2 SOCKS

SOCKS FTP ◦

SOCKS

1. FTP ◦

[FTP] (FTP { }>[] ◦)

2. ◦

[FTP] [] ◦[FTP] FTP
IP { } ◦{ } { } ◦

[FTP] ◦

3. [] ◦

4. SOCKS ↯FTP SFTP ◦

FTP [SOCKS] ↯[SOCKS] ◦ ↯SOCKS
◦

SFTP Secure Shell ↯ Secure Shell { }
[SOCKS] ◦ SOCKS (Configure SOCKS)
↯SOCKS ◦

5. ◦

[OK] { } { } ◦[FTP]
↯FTP { } ◦ ◦

OK ◦



SOCKS

1080 ◦

3.6.3

FTP SFTP ◦

1. FTP ◦

[FTP] (, []-[])◦

2. ◦

[FTP] [] ◦[FTP] FTP
IP { } ◦{ } { }

[FTP] ◦

3. [] ◦

4. , ◦

5. [] , (,)◦

6. ◦

7. ◦

[OK] { } { } ◦[FTP]
FTP { } ◦◦

OK ◦



- SFTP , ◦
- [] [] , , ◦
- [] () FTP ◦
- passive , ◦ [425 Can't open data connection]() , ◦

- (FTP)
- [] ([])

•

SITE

FTP ,

o

SITE ,

```
OPEN <proxy_server>  
USER <firewall_username>  
PASS <firewall_password>  
SITE <FTP_server>  
USER <FTP_server_username>  
PASS <FTP_server_password>
```

•

@

@

FTP

o

:

```
OPEN <proxy_server>
USER <firewall_username>
PASS <firewall_password>
USER <username>@<FTP_server>
PASS <FTP_server_password>
```

[]

:

```
OPEN <proxy_server>
USER <username>@<FTP_server>
PASS <FTP_server_password>
```

.

USER-PASS-ACCT

FTP ↗

↖ **USER-PASS-ACCT** ↘

◦

```
OPEN <FTP_server>
USER <FTP_server_username> <firewall_username>
PASS <FTP_server_password>
ACCT <firewall_password>
```

•

FTP

-

```
OPEN <FTP_server>  
USER <firewall_username>  
PASS <firewall_password>  
USER <FTP_server_username>  
PASS <FTP_server_password>
```

-

[/]

FTP { [] { } [/] ,

o

```
OPEN <FTP_server>
USER <firewall_username>
PASS <challenge_response_from_token>
USER <FTP_server_username>
PASS <FTP_server_password>
```

•

@FTP

FTP /

@FTP /

o

```
OPEN <Firewall_server>
USER <Firewall_username>@<FTP_server>
PASS <Firewall_password>
USER <FTP_username>
```

.

FTP @FTP

FTP /

FTP @FTP

```
OPEN <Firewall_server>  
USER <FTP_username>@<FTP_server> <Firewall_username>  
PASS <FTP_server_password>  
ACCT <Firewall_password>
```

•

3.6.4 Secure Shell (FTP)

Secure Shell (FTP)

Secure Shell ◦ Secure Shell ◦ FTP Secure
Shell ◦ ◦ ◦

- SFTP ◦

- FTP ◦ SSH ◦

- Secure Shell (FTP)

- FTP

Secure Shell (FTP)

FTP Secure Shell , .

FTP Secure Shell

1. FTP .

[FTP] (, []-[]) .

2. .

[FTP] [] .

[FTP] FTP IP , [] .

[] , [] .

[FTP] .

3. [] .

4. **Secure Shell** .

5. [Reflection Secure Shell] .

6. .

[SFTP] Reflection SFTP (Secure FTP) .SFTP , FTP .

[FTP] [] SSH . , FTP
 . SSH . , FTP
] .

7. () [SSH] ([SSH] , , SSH) .

8. () **Secure Shell** . , **Secure Shell** .

9.

[OK] [] []

[FTP] FTP []

[OK]

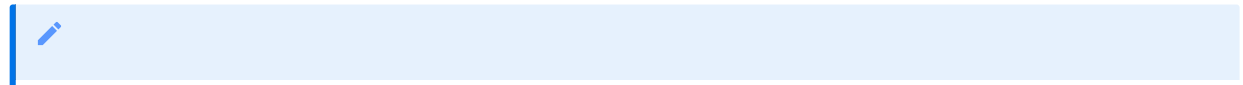
✎

- Secure Shell Secure Shell
- Secure Shell
- Secure Shell []
- Secure Shell []
- FTP [] []
- Secure Shell SFTP SFTP
- Secure Shell FTP [] [UNIX]
- Secure Shell []

• Secure Shell (FTP)

FTP

Secure Shell FTP FTP) ° ´
FTP ·SFTP ·FTP °



·FTP · (PASV) () °

FTP

1. FTP ◦ FTP ◦(◦ []-[])◦

2. ◦

[FTP] [] ◦ FTP ◦ FTP IP ◦ ◦

[FTP] ◦

3. [] ◦

4. [Secure Shell] ◦

5. [Reflection Secure Shell] ◦

6. [FTP] ◦

7. ◦Secure Shell FTP ◦

• [FTP Secure Shell] ◦



- FTP Secure Shell ◦ FTP ◦ Secure Shell
- Secure Shell FTP ◦
- SSH ◦Secure Shell IP ◦
- SSH ◦Secure Shell ◦

8. ◦

OK ◦ FTP ◦ FTP ◦

OK ◦



Secure Shell FTP ◦

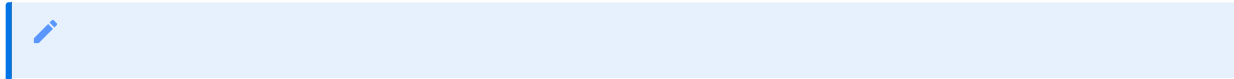
3.6.5 SSL/TLS (FTP)

SSL/TLS (FTP)

Secure Socket Layer (SSL) / Transport Layer Security (TLS) /
•SSL/TLS /
◦ /

- SSL/TLS (FTP)

SSL/TLS (FTP)



SSL/TLS
 TLS

FTP SSL/TLS

1. FTP

[FTP] ([]-[])

2.

[FTP] [] [FTP] FTP
 IP [] [] []
 [FTP]

3.

4. SSL/TLS SSL/TLS

5. () SSL/TLS []

FTP
 Micro Focus
 :FIPS FTP FIPS

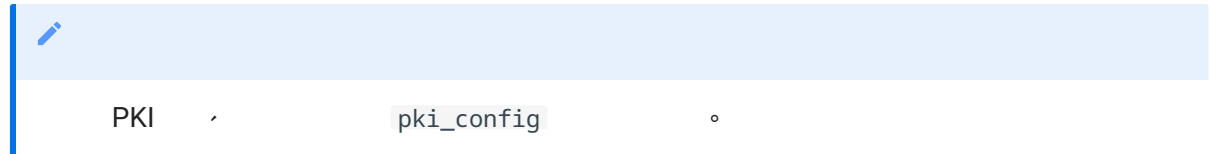
: 168 128 256 Reflection

6. () PKI

PKI

Reflection

- a. PKI Reflection
- b. Reflection (Trusted Certificate Authorities)
- c. CA
- d. Reflection [SSL/TLS
Reflection FTP Reflection
Windows)

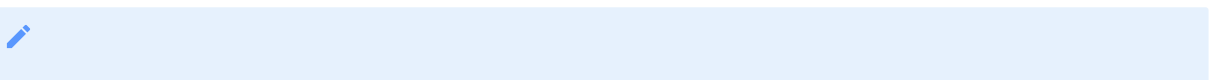


- a. [] [OK] trust_store.p12

7.

[OK] { } { } [FTP]
FTP { } . .

OK .



- Reflection SSL/TLS
- SSL/TLS
- SSL/TLS ()

4. FTP

4.1 FTP

Reflection FTP ◦ ◦ RFW ◦

- FTP
- FTP
- FTP
- FTP WS_FTP
- []
- [FTP]

- FTP

4.2 FTP

FTP Windows [] ·[Settings.rfw]

·[]-[< >] °

1. [] [] °

2. °

3. () {] °

4. °

• FTP

• FTP

• FTP

•

4.3 FTP

FTP Windows [] ·[Settings.rfw]

-
- []-[]
-

Windows

1. ◦
2. ◦

- FTP
-
- FTP
- FTP

4.4 FTP

[] FTP XML ◦ / XML ◦

XML


1. []-[] ◦

2. XML ◦

3. ◦

◦

4. OK ◦



◦ / ◦ / *.ifw) ◦

- FTP
- FTP
- FTP
- [FTP]

4.5 FTP WS_FTP

WS_FTP FTP ◦

wsftp_options.ini ◦ ◦ ◦

C:\Users*\AppData\Roaming\IPSwitch\WS_FTP C:\Documents and Settings*\Application
Data\IPswitch\WS_FTP

WS_FTP

1. FTP [] ◦ [] ◦
2. [] { WS_FTP (wsftp_options.ini) ◦
3. wsftp_options.ini [] [OK] ◦
4. ◦
5. > ◦

• FTP

4.6 []

- Reflection FTP [] ° °

- [] °

- [] °

- [] · Reflection °

4.7 FTP

- FTP []-[] °

-

- [] { }>[] [] °

-

- [] °

-

- []

-

- [] °

-]

- [] [] []

- [] []

- [] []

-

- [] [] []

- [] [] [anonymous]

-

-

-

-

- FTP

- FTP SFTP

-

5.

5.1

- FTP
- FTP SFTP

5.2 FTP

5.2.1 FTP

1. [] - [] .

1. [] - [] .

- [] ([])
- [] ([])
- [] ([])
- ()
- ()
- FTP SFTP

5.2.2 [] ([])



FTP [] [] °

°

[anonymous FTP anonymous °

SFTP °

[°Windows

[] ° []] [] [] °

° UNC °

\\<computername>\<sharename>\<pathname>

• [] ([])

5.2.3 [] ([])



FTP [] [] ◦

◦

{]-[]-[] } ◦

◦

[] ◦

[] [] ◦

[] () ◦

[] () ◦

[] ◦

[] , , ◦ ,
-[] ◦

• ()

• []

5.2.5 [] ([])



FTP [] [] °

°

[] ° [] { } [] °

:

° []-[]-[] []

° [] °

° [] ° **chmod** °

chmod

°

[] ° [] ° [] { } []

: { }]>]> []

° [] °

-
-
-
-

5.2.6 ()



FTP

◦

◦

◦

◦

3 ◦

:

0 7 ◦

◦

◦

◦

◦

◦

◦

◦

•

5.3 FTP SFTP

5.3.1 FTP SFTP

[] , .



1. FTP .

[FTP] (FTP {]>[]
)

2. [FTP] .

3. .



- [] [] .
- [] [] .

- [] ([])
- [] ([])
- [] ([])
- [] ([])
- [] ([])
- [] ([])
- FTP

5.3.2 [] ([])



1. FTP ◦

[FTP] ◦(FTP {]>[])

2. [FTP] ◦

3. ◦



• {] [] ◦

• {][] ◦

◦

◦

[FTP] FTP SFTP ◦ URL IP ◦

[] [] ◦ FTP ◦FTP

SFTP {] ◦SFTP [UNIX] ◦

[]

[] FTP , [] (SFTP , anonymous)。

anonymous [] [] []
anonymous 。

[] , 。

[] FTP 。

, 。

[] FTP FTP , 。

[Windows ,FTP ,Windows 。

] IBM System i (AS/400) IBM AS/400 (0)

。

[] , 。

5.3.3 [] ([])



1. FTP ◦

[FTP] ◦(FTP {]>[]
◦)

2. [FTP] ◦

3. ◦



• {] [] ◦

• {][] ◦

◦



SFTP ◦ [IPv6] ◦


```
[ ] (PASV) PASV
passive [425 Can't open data connection]
(IPV6 EPSV
```

```
[ ] [idle time] FTP
[ ] NOOP
-NOOP
```

```
[TCP ] [TCP ] -FTP TCP ( ) ( 21) -FTP
```

```
[ ] listitem
```

()

```
[ ] FTP 0 -FTP
```

```
[ ]
-FTP 0
```

[IPv6] IPv6 (Internet Protocol 6) IPv4
 IPv6 IPv6 IPv4 IPv6
 IPv4 []

Initial umask umask umask FTP
 umask umask
 nnnn unmask

```
SITE umask nnnn
```

```
umask FTP SITE FTP
```

```
QUOTE help site
```

```
:
```

```
• FTP umask
```

```
• [ ]-[ ]-[ ]-[ ] [ ]
```

```
• SFTP
```

5.3.4 [] ([])



1. FTP ◦

[FTP] ◦(FTP {]>[]
◦)

2. [FTP] ◦

3. ◦



• {] [] ◦

• {][] ◦

◦ ◦

[FTP]

[] { } - [] FTP CD

[CD]

Windows

[]

[PC]

: [] ([F5])

[] FTP LIST NLST

SFTP

[PWD] FTP PWD [] PC

: [F7] Reflection PWD

SFTP

[] SFTP

[LIST] FTP FTP LIST MDEL LIST

◦

,

◦

SFTP

,

◦

[

]

◦

,

,

[

FTP

()

◦

,

]

{

}

◦

,

[

]

◦

•

5.3.5 [] ([])



1. FTP ◦
[FTP] ◦(FTP {]>[]
◦)
2. [FTP] ◦
3. ◦



- {] [] ◦
- {] [] ◦
- ◦



SFTP {] ◦

[] ◦

[] ◦

[CTRL-Z] ◦ Ctrl-Z (^Z) ◦ ◦ ◦ ◦
◦([Ctrl-Z] ◦ ◦ FTP
[Ctrl-Z])◦

[]
]

[**CTRL-**
Z] Ctrl-Z (^Z) ^Z
] Windows]

[]
] PC / (CR/LF)
]

[6 MM DD YY]
]

[] [] Windows DOS]

• []

5.3.6 [] ([])



1. FTP ◦

[FTP] ◦(FTP {]>[]
◦)

2. [FTP] ◦

3. ◦



• {] [] ◦

• {] [] ◦

PC ◦ ◦ ◦ ◦

```
[
]

```

```
: [ ] [ ]

```

```
Windows Windows
FTP

```

```
◦ PRESERVE-FILE-DATE yes
```

```
[Windows
8.3 ]

```

```
◦ Longfilename.Document ◦ PC Longfile.doc

```

```
:
[ ] [ ] ◦ DOS 8.3
[ ] [ ] ◦

```

```
[
]

```

```
◦ [ ] ◦

```

```
SFTP ◦

```

```
) ◦ ( ) (

```

```
[ SITE
] SITE ◦ FTP

```

```
QUOTE help site SFTP

```

```
◦

```


5.3.7 [] ([])



1. FTP ◦

[FTP] ◦(FTP {]>[]
◦)

2. [FTP] ◦

3. ◦



• {] [] ◦

• {][] ◦

◦ FTP ◦ ◦

[] ◦ ◦

6.

6.1

- FTP

- ()

-

-

- ()

-

- 2

-

-

-

- []

- []

- []

- []

6.2 FTP

FTP

FTP

1. FTP

2. ([]->[])

3. []-[])



4.

5.



FTP (SFTP) FTP

-
- ()
- ()
- PC
-
- FTP

6.3 ()

- [] .
- []-[] .
- [ASCII] [] . [] .
- [] .exe .doc .
- Tenex (8) DECsystem-20 1 8 . Tenex ([8]) .
- FTP . ([ASCII]、 [] {Tenex} []) [] .
- []
-
-
- []

6.4

FTP ([] [Tenex] [])
 .doc

1. []-[]

2. []

3. []

4. []

[]



-
-

• ()

•

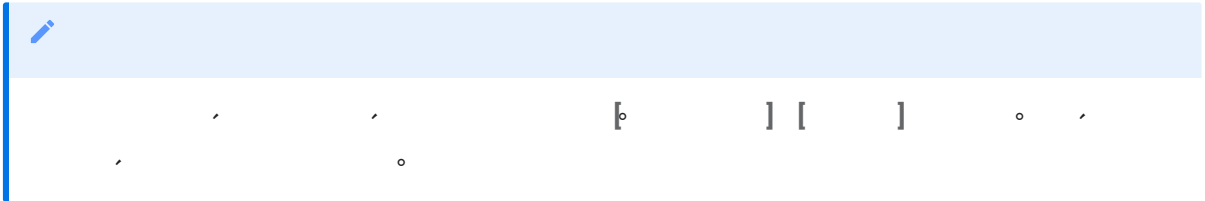
• []

6.5

1. []-[] °

2. [] °

3. [] °



• ()

•

6.6 ()

FTP

[]-[]

[]

) 1

[] FTP

Windows

{ } FTP

{ } & FTP

Reflection

-
- FTP
-

6.7

1. [] ' [] °

2. {] °

• FTP SFTP

• [] ([])

6.8.2

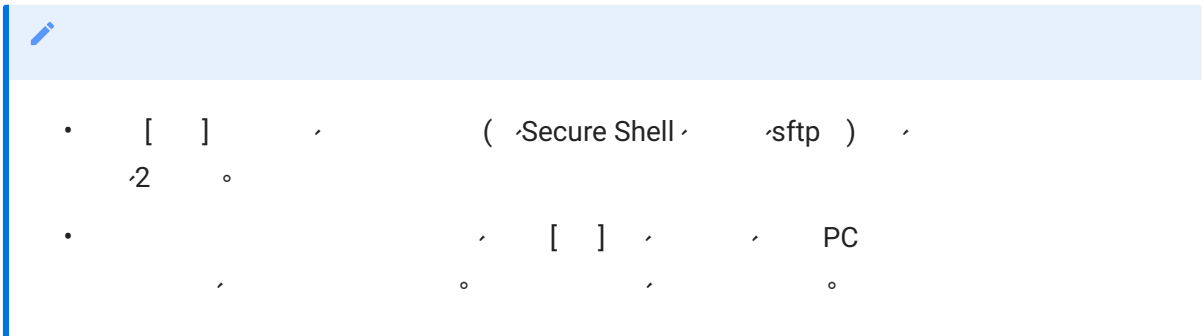
FTP 2 。

2

1.1 。

2. []-[2] 。

3.



- [] (Secure Shell sftp) 2 。
- [] PC 。

• FTP

•

• [] ([])

6.9

[] , ° PC ,

1. { } °

2. [] [] PC °

3. [OK] °

° , ° , .htm PC
 .html °

1. 1 { } °

2. [] [] , °

^*.htm *_info_?.text °

3. [] [] , PC °

^*.html *_info_?.txt °

4. [OK] °

•

• FTP

6.10

[] FTP ◦

1. { } ◦

2. [] [] ◦

3. 2 { } ◦

4. [OK] ◦

.html ◦ .htm ◦

1. 1 { } ◦

2. [] [] ◦

*.htm *_info_?.text ◦

3. [] [] ◦

*.html *_info_?.txt ◦

4. [OK] ◦

- PC

- FTP

6.11

PC



SFTP

• FTP REST

FTP REST (Restart) •FTP REST
 1 •FTP •REST

quote help rest

rest

- ()
 - []
 - FTP
- PC

- 1.
2. 3
3. [] [] { }
4. PC
- 5.
6. []

- ()
- ()
- [] ([])

6.12[]

1. [FTP] , { }

- -

{ }-[] °

2. [] { } °

, ° , °

- DOS , °

- Windows , ISO-Latin-1 (ISO -1) , °

FTP , Windows DOS ° , °



SFTP , °

[] PC

[]

[] [EUC] [DEC 1983] [JIS X0208-1983] [] []

[] PC Windows

[] ([]) ([])

[ISO-7/NRC] (NRC) ASCII
 [DEC] [ISO -1] [HP Roman 8]
 [Roman-8 ISO-7] [ISO-7 Roman-8]
 [MCS NRC] [NRC MCS]

{ } []

[NRC 8] [ISO-7/NRC] [] 8
 ISO-7 { ISO-7/NRC }
 [HP Roman 8]

[DEC NRC] DEC (MCS) (NRC)
 [ISO-7/NRC]
 [DEC] [ISO -1]

[]
 { }
 { } JIS (Shift-JIS) 2 DEC Kanji
 EUC Unicode)

[NRC 8]	[ISO-7/NRC]	[]	ISO-7	8	HP 8
[NRC DEC]	[ISO-7/NRC]	(NRC) DEC	(MCS)		
[]	[]	[DEC]	[ISO -1]		
[]	[]	JIS (Shift-JIS)	2	DEC Kanji	
	EUC Unicode)				

• [] ([])

6.13

1. []-[] °

2. [] [] °

,

°

,

°

[]

°

• ()

•

•

6.14[]

[] ' ' ° °



' [] °

°

[ASCII] .txt ' .html ASCII °

[] .exe ' .doc ° ' °

[Tenex] DECsystem-20 '1 8 'Tenex
([8])°[' ° ' °
] ' [] ' ° °

•

• ()

6.15

[] [] ,

[]

[/]

[]

[] [OK]


[] .FTP

[/]

• ()

7.2

[] [] /
/ / FTP °
/ / / ° { } °
/ °

 Windows °

-
-
-
-

7.3

PC FTP

FTP [] []

{ } ()

[] []

[] { 1 } { }

1. []-[]

2.

J:\Payroll\July

3. [] PC

UNC (Universal Naming Convention) UNC 47

() : ? " / | < > * :

47

\\< >\< >\< >

- PC
-
-

7.4

FTP

1. / ◦
2. / ◦
3. [] / ◦
 PC ◦

-
-
- PC

7.5

FTP

[] []

{ } ()

[]

[] { 1 }

[]

1. []-[]

2.

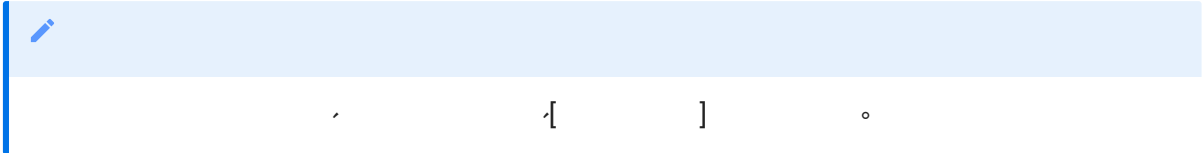
3. []

-
-
-
-

7.6

- FTP 2 1 FTP 1 ◦
- FTP ◦

1. ◦
2. []-[] { } ◦
3. [] [] ◦
- [] ◦
4. [OK] ◦



1. [FTP] { } ◦
- -
- { }-[] ◦
2. [] ◦
3. [] [] PC ◦
4. OK ◦

FTP

1. []-[] ◦
2. [] ◦
3. [] [] PC ◦
4. OK ◦

• [1] ([1])

• [1] ([1])

•

•

7.7

FTP ◦Windows ◦

```
\ / : * ? " < > |
```

-
- ():246 (/ : \)◦ 246 / 8.3
-
- :256 (null)
- (+): ◦Windows ◦Windows /
- 259 ◦

FTP SFTP / ◦ / [FTP SFTP]

PC ◦FTP / PC Windows ◦

- ◦ fast*lane / fastlane ◦
- : \ / : * ? " < > |
- ◦Windows / ◦
- Windows / ◦ Windows / ◦
- / ◦ / / /
-

[] [] [Windows 8.3] / DOS ◦

- FTP SFTP
-
- [] ([])

-
- []
- [] ([])

7.9

[] , FTP . FTP
 , FTP .



FTP , .



{ } [] [] [] () .

1. .
2. [] - [] .
3. listitems .



. .

4. { } .

FTP , .

5. , [] .

• FTP

7.10

FTP

1. UNIX Linux
2. 1
3. { }
4.
 - [] UNIX **chmod** 3 0 7
 - [] { } []
5. OK

1. []-[]
2. { }
3. { }
4. OK

1. []
 - { } []
 - { } []
2. OK

FTP

1. UNIX Linux
2. {F7}
3. UNIX **chmod**
 - -rwxr-xr-x

```
chmod 644 myfile.htm
```



- FTP

- []

-

-

-

7.11 []



FTP [] [] °

[] / °

° / .txt [*.txt] °

OK / / °



• SFTP / °

• / °

• /[*]() °

7.12[]



1. FTP ◦

[FTP] ◦(FTP {]>[]
◦)

2. , ◦

3.[] [] ◦

◦ ◦ UNIX Linux

, ◦

[] ◦

[] UNIX chmod 3 ◦ 0 7 ◦

[] [] [] , , , ◦

•

•

7.13 []



FTP [] { } °

°

• [] / °

• / ° / °

•

•

8. FTP

8.1 FTP

- Reflection FTP
- FTP
- Windows
-
-
-
-
- **FTP**
-
-
-

8.2

FTP { FTP } () ◦

Reflection FTP 、

1. [] [] ◦

2. () ◦

3. [] [] ◦

4. [] ◦

- FTP
- [FTP]

8.3

FTP の動作を説明する。

Reflection FTP の動作を説明する。

1. [FTP] の動作を説明する。

2. [FTP] の動作を説明する。

3. OK

• [FTP]

8.4 FTP

```

FTP >
URL
  •
  •
  • [ ] - [ ] { }
  •

< >.exe [< >] /< >< >

< >.exe      FTP
               •
               •

               [FTP_INSTALL_FOLDER\rftpc.exe]

<site>
               •
               •
               • 'ADA Home "
               •

< > /
               •
               • /W

               Settings /RFW
               •

/< >< >
               1
               •

```

<code>/D < ></code>	<code>◦ [My Documents] ◦</code>
<code>/E</code>	<code>◦ :/D ◦</code>
<code>/FMIGRATE</code>	<code>Reflection F-Secure ◦ ◦ F-Secure Reflection ◦</code>
<code>/L < ></code>	<code>◦ ◦</code>
<code>/N</code>	<code>Reflection ◦</code>
<code>/RFS < ></code>	<code>◦ ◦ QUIT ◦</code>
<code>/RFW < ></code>	<code>◦</code>
<code>/X < ></code>	<code>{ } ◦</code>
<code>/W <URL></code>	<code><URL> ◦ ◦</code>
	<code>rftpc[.exe] /W ftp://</code>
	<code>[username[:password]@]hostname[:port] [/</code>
	<code>directory]</code>
<code>/?</code>	<code>◦</code>

•

8.5

FTP (Rftpc.exe) West Coast

```
"FTP_INSTALL_FOLDER\rftpc.exe" "West Coast"
```

/W FTP URL /L / Ftpinfo.log
FTP (rftpc.exe)

```
"FTP_INSTALL_FOLDER\rftpc.exe" /W ftp://ftp.myco.com /L Ftpinfo.log
```

FTP /RFS FTP /RFW Myfile.rfw
Transfer.rfs

```
"FTP_INSTALL_FOLDER\rftpc.exe" /RFW  
"C:\Mypath\Myfile.rfw" /RFS "C:\Mypath\Transfer.rfs"
```

• FTP

8.7

↵FTP ↵[Central] FTP ↵ Upload.ifs FTP ◦

Rftpc.exe Central /RFS Upload.ifs

↵FTP ↵[Central] FTP ◦ ↵[Central] FTP
◦



↵ ◦ :

Rftpc.exe "My Site" /RFS "Central files download.ifs"

-

- [FTP](#)

9. FTP

9.1 FTP

-
- FTP
-
- FTP
- Secure Shell
- FTP
- FTP
- Windows Sockets
-

9.2

Reflection FTP (Microsoft FTP)

FTP (Microsoft FTP)

FTP (Microsoft FTP)

- FTP (Microsoft FTP)

- FTP (Microsoft FTP)

- FTP (Microsoft FTP)

Reflection FTP (Microsoft FTP)

•

- FTP

-

- FTP

- FTP

9.3 FTP

FTP ◦

- ? ◦

- SOCKS ? ◦

SOCKS ◦

- HOSTS ◦ HOSTS

- IP ◦ :124.24.36.85

- FTP ◦

- [] { } []

- [()] ◦

- FTP ◦ { }] ◦

◦

- Secure Shell ◦ Secure Shell ◦

: ◦

◦

- IP ◦ ◦ ◦

◦

- HOSTS ◦ ? PC HOSTS

- ? HOSTS IP ◦ ◦

[124.24.36.85]

- IPv6 ◦ IPv6 PC ◦ ◦ Microsoft ◦

- IP () ◦ ◦

◦

: ◦

- { } ◦

◦

Reflection FTP

```

Reflection FTP
)
]

```

PWD

```

Reflection PWD
Reflection PWD
[ PWD ]

```

: PASV

```

PASV
PASV [ ] [ ] [passive ]

```

- FTP
- [] ([])
-
- Secure Shell

9.4

- FTP SFTP
-
- ()
-
- PC [] PC
- PC
- 2
- FTP
- Windows DOS
- Windows DOS
- []
- FTP SFTP]
-
-
- [] Reflection FTP Reflection
- Windows
- [] FTP &
- FTP

9.5 FTP

FTP SFTP

[425 Can't open data connection] ()

PASV [] []

*.txt txt

- { } []
- FTP ()
- { }-[] *
- ()

SFTP UNIX

SFTP { } ([]-[]-[Secure Shell])

() FTP UNIX FTP

[The system cannot find the path specified] ()


FTP [] { } [] [] []

- .

9.6 Secure Shell

Reflection ◦ Secure Shell ◦ FTP ◦

- ([]-[]) ◦
- FTP ([]-[]) ◦


[] -Secure Shell ◦ ◦ **Secure Shell**

9.7 FTP

2 .

◦

- 500 Illegal PORT command (PORT)
- 501 IP address for data destination does not match client's (IP)
- 425 Can't open data connection ()
- 502 PASV command not implemented by this server (PASV)

FTP .

PC .

◦

.

◦

FTP

◦

.

◦

.

1. []-[] ◦

2. [] { , } [OK] ◦

.

◦

FTP IP IP PORT Reflection FTP
 () ◦ PORT TCP PORT ◦

PORT 2 ◦ [500 Illegal PORT command]

[501 IP address for data destination does not match client's] . [425 Can't open data connection] ◦ . 0 ◦

. IP PORT ◦

FTP Reflection FTP PASV PORT
 ◦ PASV . [502 PASV command not implemented by this server] ◦ . PASV

• 2

9.8 FTP

```

FTP
(PWD ·CD ·DIR ·LS ·QUOTE <command> )
OPEN PASSTHRU CLOSE
FTP <n>
[ ( ) [ ] SET TIMEOUT-CONNECT
IP
HOSTS ? PC HOSTS
? HOSTS IP
[124.24.36.85]
FTP SFTP IP ( )
< > \
·1 · FTP ·FTP help ·
·help < >
· [ ] [ ] ·PC

```

Windows

```

\<n>
[ ] [ ( ) ] [ ]
( [ ] )

```

SET TIMEOUT-SESSION

< > \ [help]

```

FTP FTP help
help < >

```

502 PASV command not implemented by this server (PASV)

PASV {] }

[] ([])

9.9 Windows Sockets

```

·Reflection FTP
·Windows TCP/IP ·Windows Sockets
([WINSOCK :] ) ·Windows Sockets ( Wsock32.dll )
Windows
Windows Sockets
· ( )
FTP
·FTP 1
1 FTP
Windows Sockets
·IP ( )
IP 1
Windows Sockets
Windows Sockets
( FTP SFTP )
Windows Config.sys Files= PC
Wsock32.dll

```

- FTP

9.10

```

    .
    .
    . IP . . .
    .
    .
    . HOSTS . . . ? PC HOSTS
    . ? HOSTS
    . [124.24.36.85] .
    . IPv6 IPv6 PC . . Microsoft .
    . IP ( ) .
    .
    .
    . { } .
    .
  
```

Reflection FTP .

```

    . Reflection FTP . . . ( .
    . ) . . . { } - { } { } [
    . ] .
  
```

PWD .

```

    . Reflection PWD . . . {F7}
    . Reflection PWD . . . PWD
    . { } [ ] { PWD } .
  
```

PASV .

```

    . PASV . . .
    . PASV { } [ ] [ ] [passive ]
    .
  
```

```

    [425 can't establish data connection] ( )
    . PASV { } [ ] [
    ] [ ] .
  
```

°
 FTP °
] ° { [] {] []
 °

10. FTP

10.1 FTP

- FTP
-
- FTP
- FTP SFTP
- FTP SFTP

10.2 FTP

FTP [] FTP / Windows

black (FTP SFTP)

FTP	Reflection FTP	Reflection SFTP
FTP	FTP	SFTP

- Windows
- FTP 2 { 2] ()

- FTP
-
- FTP SFTP
-

10.3

FTP

1. { } °

• FTP

10.4 FTP

FTP 1 FTP FTP SFTP FTP PC

• [] - []
FTP

1. {Shift} + [F7]

2. FTP SFTP

3.

FTP 50



FTP 2
• 2 [[2]] ()

• FTP SFTP

• FTP

•

10.5 FTP SFTP

- FTP
- SFTP

FTP / . . . FTP / . . .
/ . . . / . . .

FTP / . . . GET G; . . .
jokes.old FTP g jokes.old . . .
/ . . . / . . .

- () / . . . < >
- 1 / . . . < > | <IP >
- (II) / . . . PC LCD . . .

```
lcd [<pc >]
```

- FTP SFTP
- FTP
- FTP
- FTP

10.6 FTP SFTP

1 / . .

CD Travel Agents

/ . . Account History PC /
Accthist.txt / .

GET "Account History" TO Accthist.txt

/ . / [Remembering You] /
. .

GET ""Remembering You""

11. FTP

11.1 FTP

- FTP

- FTP

-

-

-

- FTP

-

-

-

-

-

11.2 FTP

- FTP
- FTP
- FTP (SFTP)
- ASCII
- 1 1
- FTP
- FTP
- FTP
-
-
-
- FTP

11.3

FTP ,
 ·FTP ,

1.[]-[] °

2. °

3.[]-[] °

4.[] [] °
`.rfs`

5. °



2 , °

-

-

-

- FTP

11.4

1. []-[] °

2. [] / °

3. [] °

•

•

• FTP

11.5

1. []-[] °

2. [] °

3. [] °

- FTP

-

-

- FTP

11.6 FTP

- FTP (SFTP) ASCII
- 1 1
-
- (;) FTP
-

```
;Las líneas siguientes conectan con el servidor y cambian
;los directorios de trabajo a PREIMPRESA (cliente) y
;a IMPRESA (servidor). open forum thomasp XOYRCNEL973L9L9603760NM0770L35L7NM087PM79
lcd c:\prepress
cd /press
```

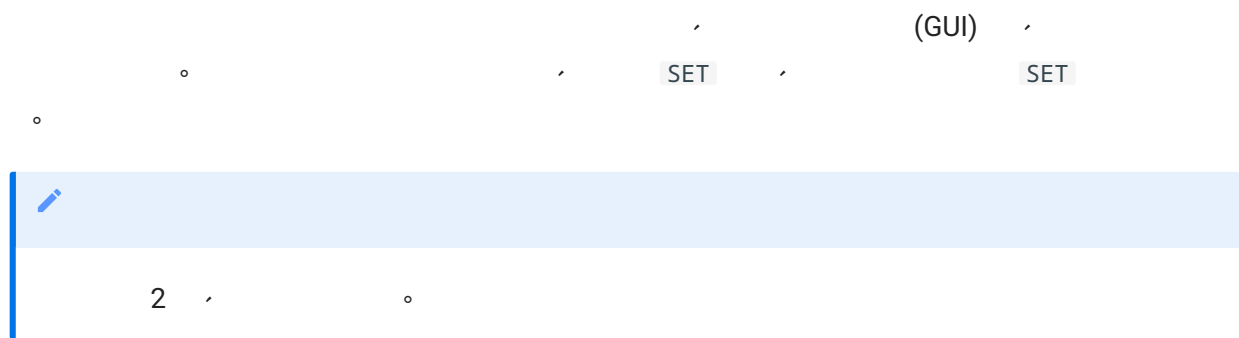
```
set transfer-disposition unique ;do not overwrite files
mput script is s*.doc ;copy the .DOC files
```



~B sftp (#)

-
-
-
- FTP

11.7



FTP	GUI
OPEN	FTP ([])
	FTP
CD	([])
LCD	
DELETE*	
LDEL*	
RDALL*	
LRDALL*	
LMD	
GET*	
< >	[Windows] { } []
CPDIR*	
< >	[Windows] { } []
PUT*	
PUT*	[Windows] { } []
LCPDIR*	
LCPDIR*	[Windows] { } []

* FTP



- `open <servername> <username> <password>` `<password>` ,
 - :

```
open ftp.myco.com joe WPD61190003929K14806KN70652L0739LL00875N440274
```

- , ◦ :

```
cd /users/bobc  
; 550 /users/bobc: ◦
```

-
- SET
-
- FTP

11.8

-
- `FTP (SFTP) OPEN`
 - `(open <servername> <username> <password>) PASSTHRU`
 - `OPEN < > OPEN open`
 - `<servername> <username>`
 - `< >`
 -
 -
 - `FTP`
 - `FTP`

11.9

```

CONTINUE /
FTP ○ CONTINUE ON /
      ○ CONTINUE OFF /
ABORT-ON-ERROR NO /
ABORT-ON-ERROR / FTP /
ABORT-ON-ERROR YES
ABORT-ON-ERROR NO /

```

-
- CONTINUE
-
- ()

11.10

• FTP	• FTP	◦
◦		
•	◦ [] [] FTP	
◦		
•	•	◦
◦		
• QUIT		◦
• SET		◦
QUIET-STATUS	YES	◦
SMART-TYPE-DEFAULT	ASKUSER	◦ ASKUSER
TRANSFER-DISPOSITION	PROMPT	◦ PROMPT
CONFIRM-DELETE	NO	◦
RESUME-PARTIAL-TRANSFERS	ASKUSER	◦ ASKUSER

-
- **FTP**
-
- **FTP**
-
- **SET**

11.11

◦
{ }-[] { }-[]
◦
FTP API FTP StartLog StopLog

- FTP
-
- FTP

12.

12.1



FTP SFTP

- FTP
- SFTP

12.2 FTP

12.2.1 FTP

- FTP (File Transfer Protocol)
- (Secure Shell SFTP)
- SFTP

:

- ACCOUNT
- APPEND
- [ASCII]
- BINARY
- CD
- CHMOD
- CLOSE
- CONNECT
- CONTINUE
- CPDIR
- DELETE
- DIR
-
- DISPLAY
-
- GET
- HELP
- LCD
- LCPDIR
- LDEL
- LDIR
- LMD
- LRD
- LRDALL
- LRENAME
- LS
- LTYPE
-
- MDEL
- MGET
- MPUT
- OPEN
- PASSTHRU

- PUT
- PWD
- QUIT
- QUOTE
- RD
- RDALL
- REGET
- RENAME
- SET
 - SET
 - SET
 - SET
 - ASCII-SERVER-TYPE SET
 - NATIONAL-REPLACEMENT-SET
 - ABORT-ON-ERROR Script Sample
- SITE
- SMART
-
- TENEX
- TYPE
- VERIFY

12.2.2 ACCOUNT

: account < >

FTP

(IBM FTP)

◦Reflection FTP OPEN < >

ACCOUNT

<accountname>

12.2.3 APPEND

: append < > [to] [< >]

FTP

APPEND / **FTP** / . / / **PUT**

< FTP PC .
>

to < PC . /PC /PC
> . TO .

·PC .

APPEND WHATSNEW.DOC

·PC .

APPEND WHATSNEW.DOC TO DOCUMENT.TXT

12.2.4 CLOSE

: close

FTP

CLOSE / FTP ◦

CLOSE / EXIT QUIT ◦

12.2.5 CONNECT

```
: connect [< >]
```

FTP

```
CONNECT FTP ○ / ○ OPEN /
/ ○ / ( ) FTP
○
```

```
CONNECT < >
USER < >
PASS < >
```

```
/ ○ OPEN ○ OPEN
CONNECT /
○
```


12.2.6 CONTINUE

`: continue [on | off]`

FTP

`CONTINUE` / FTP / Reflection FTP /

`CONTINUE` / MGET MPUT /

`CONTINUE` / MGET MPUT (LIST, GET, PUT, CD) /

`SET ABORT_ON_ERROR NO` /

`CONTINUE` / & /

`CONTINUE` / MGET MPUT CONTINUE /
Reflection FTP /

`off` / `on` /

`MPUT` / Reflection FTP / [`CONTINUE`] /
`MPUT` /

CONTINUE MPUT ACCT*.TXT

`ABORT_ON_ERROR` Script Sample /

12.2.7 CPDIR

```
: cpdir < > [<PC >] [askuser | cancel | overwrite | skip]
```

FTP

```
CPDIR / PC °PC / PC °
```

```
 / °
```

```
PC / PC °
```

```
askuser | cancel | overwrite | °ASKUSER
```

```
skip °
```

12.2.8 DELETE

```
:delete < >
```

FTP

DELETE /FTP ◦



```
SET CONFIRM-DELETE YES / / ◦
```

```
< ◦ / ◦ UNIX FTP  
> / / ◦
```

```
/ MEMO.DOC ◦
```

```
DELETE MEMO.DOC
```

```
/UNIX FTP /< >/jill jones budget.new ◦
```

```
DELETE /< >/jill jones/budget.new
```

12.2.9 DIR

```
: dir [< >]
```

FTP

DIR (LS)°

```
< FTP / / ° /
> < > FTP °
```

·VAX/VMS FTP °

DIR *.EXE

12.2.10

: disconnect

FTP

DISCONNECT /FTP °

DISCONNECT / CLOSE /EXIT / QUIT °

12.2.11 DISPLAY

```
:display < >
```

FTP

```
DISPLAY FTP
```

```
< >
```

```
< >
```

```
1
```

```
Reflection FTP
```

```
50
```

```
< >
```

```
60
```

```
10
```

```
DISPLAY
```

```
DISPLAY Next process is logon to bigben.timer.london
```


12.2.12 HELP

: help [< >]

FTP

HELP Reflection FTP FTP HELP < > FTP
◦ FTP HELP ◦

FTP QUOTE HELP QUOTE HELP < >
◦ QUOTE



HELP SFTP FTP SFTP ◦

12.2.13 LCPDIR

```
: lcpdir <pc / > [< >] [askuser | cancel | overwrite | skip]
```

FTP

```
LCPDIR / PC ° °PC °
```

```
pc \ ° ° :
lcpdir "d:\Asian Travel\China"
```

```
< > °
```

```
askuser | cancel | °ASKUSER °
overwrite | skip
```

12.2.14 LDEL

: ldel <pc >

FTP

LDEL /PC °



SET CONFIRM-DELETE YES / / °

<pc > PC °

/PC European Travel France Map.bmp °

LDEL \European Travel\France\map.bmp

12.2.15 LDIR

: ldir <pc >

FTP

LDIR / PC °

<pc PC / / ° / PC
> °

/ PC /OLD DATA °

LDIR D:\Results\Old Data.*

12.2.16 LMD

: lmd <pc >

FTP

LMD \PC °

<pc > () °

PC MUSIC °

LMD \Music

12.2.17 LRD

: lrd <pc >

FTP

LRD ·PC °

LRD LRDALL °



SET CONFIRM-DELETE YES / / °

<pc >

< > ·PC °

·J CASES TRIAL DATES °

LRD J:\Cases\Trial Dates

12.2.18 LRDALL

: lrdall <pc >

FTP

LRDALL PC °

LRDALL LRD °



SET CONFIRM-DELETE YES / / °

<pc > °

J CASES TRIAL DATES °

LRD J:\Cases\Trial Dates

12.2.19 LRENAME

```
: lrename <pc filename> <new filename>
```

FTP

LRENAME

```

<pc filename> PC
>
assignments"
PC
"D:\To do\Work
assignments"
<
>
: "D:\To do\Work assignments"
C D ARCHIVE Stories.txt Fairy tales
LRENAME D:\Archive\Stories.txt "D:\Archive\Fairy tales"

```

12.2.20 LTYPE

: ltype < >

FTP

LTYPE ·FTP PC °

< > PC ° °

·PC J SUBJECTS COM.doc °

LTYPE J:\Subjects\Com.doc

12.2.21

: md < >

FTP

MD /

< >

FTP UNIX

Films °

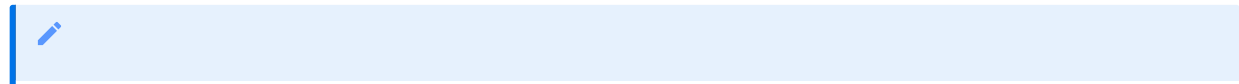
MD Films

12.2.22 MDEL

: mdel < >

MDEL 1 FTP

MDEL DELETE FTP



SET CONFIRM-DELETE YES

< 1 () > UNIX FTP /

MDEL *

[.htm]

MDEL *.htm

ABORT_ON_ERROR

12.2.23 OPEN

: open [`< >` [`< >` [`< >` [`< >`]]]]

FTP

OPEN `FTP` `OPEN`
`1` `< >` `2` `< >` `3`
`3` `< >`

<code>FTP</code>	PASSTHRU	
<code>< ></code>	<code>IP</code> <code>URL</code>	
<code><username></code>	<code>FTP</code> <code>anonymous</code> <code>[anonymous]</code>	
<code>< ></code>	<code>< ></code> <code>anonymous</code> <code>FTP</code>	
<code>< ></code>	<code>< ></code> <code>anonymous FTP</code>	
	<code>< ></code> <code>OPEN</code>	
	ACCOUNT	

`FTP` `anonymous`

```
OPEN ftp.acme.com anonymous jackie@mycompany.com
```

`Jackie` `Headquarters` `FTP`

```
OPEN Headquarters Jackie
```

12.2.24 PASSTHRU

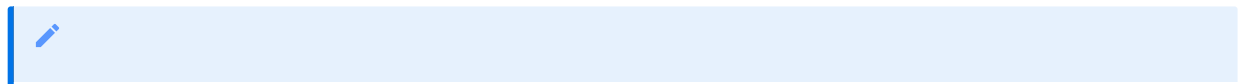
1: passthru < > < > @ < > < >

2: passthru < > < > < > < > @ < > < >

3: passthru < > < > < > < > < > < > < >

FTP

PASSTHRU / FTP °2 °Reflection FTP /
 PASSTHRU / FTP °
 PASSTHRU / ° "" () / °



PASSTHRU / FTP / ACCOUNT / FTP

1
 @ () / PASSTHRU °
 PASSTHRU / < > / FTP username@servername °
 FTP °
 < > °FTP / °
 "" () °
 < > @ < > / < > /FTP °
 < > /FTP °
 < > / FTP < > / °FTP °
 "" () °

2
 PASSTHRU / @ /FTP °
 PASSTHRU /FTP < @ > ° / °
 < > ° < > < > / °
 /FTP < > /FTP < > ° / ° @ °
 FTP < > /FTP °

3

```

PASSTHRU  /FTP      SITE      .
Reflection FTP  < > .      < > < >
      .      .      < > < >
< >) .      /FTP      .

```

12.2.25 QUOTE

: quote < >

FTP

QUOTE ↵FTP ↵Reflection FTP ↵FTP ↵ QUOTE

◦

FTP ↵QUOTE HELP ↵

◦QUOTE HELP < > ↵

◦

< >

◦QUOTE ↵FTP ↵

◦

↵VAX/VMS FTP

FIFE ↵ ◦

QUOTE MKD MAYBERRY\$USERS: [BARNEY.FIFE]

12.2.26 RD

: rd < >

FTP

RD / °



SET CONFIRM-DELETE YES / / °

< >

°

/

°

/ Articles °

RD Articles

12.2.27 RDALL

RDALL

: rdall < >

FTP

RDALL ↵ ◦



SET CONFIRM-DELETE YES ↵ ↵ ◦

< ◦ UNIX FTP ↵ ↵

> ◦

↵ Maps ◦

RDALL Maps

↵ Travel/Europe Destinations ◦

RDALL /Travel/Europe/Destinations


12.2.28 REGET

: reget < > [to] [< >]

FTP

REGET /FTP PC . / .

PC / GET / .



REGET / REGET / BINARY { }

< > PC .

to < >
>

REGET / . / . / .

PC / < >
PC / .

TO .

12.2.29 SET

SET

SET ◦ ◦

SET

ABORT-ON-ERROR	<code>< > (:)</code>	FTP SFTP	◦ ABORT_ON_ERROR ◦
ACCOUNT	<code>< > (:)</code>	FTP SFTP	◦ ◦
ANONYMOUS	YES NO (: NO)	YES	◦ anonymous ◦ [anonymous]
ASCII-CLIENT- TYPE	<code>< > (: WINDOWS)</code>	TRANSLATE-FILES () TRANSLATE-DIRECTORY-LISTING YES PC : PC-ENGLISH (IBM PC) ·PC-SLAVIC (DOS 852) ·WINDOWS ·WINDOWS-ANSI · WINDOWS-LATIN-2 ·WINDOWS- CYRILLIC ·WINDOWS-GREEK ·YUASCII ◦ SFTP ◦	
ASCII-SERVER- TYPE	<code>< > (: DEC)</code>	TRANSLATE-FILES () TRANSLATE-DIRECTORY-LISTING YES FTP SFTP ◦	
AUTO-SERVER- UPDATE	<code>< > (:)</code>		◦
CLIENT-HOME- DIRECTORY	<code>< ></code>	PC () []	◦ ◦
CONFIRM-DELETE	<code>< > (:)</code>		◦
CREATE-SERVER- UPPER	YES NO (: NO)		◦
CREATE-8.3- FILENAMES	YES NO (: NO)		◦ 8.3
CTRL-Z-EOF			

SET

	YES NO (: NO)	<ul style="list-style-type: none"> ◦ YES [Ctrl-Z] ◦ NO ◦ SFTP
DELETE-TRAILING-SPACES	YES NO (: NO)	<ul style="list-style-type: none"> ◦ SFTP
EMAIL-ADDRESS	< > (:)	<ul style="list-style-type: none"> ◦ anonymous FTP ◦ SFTP ◦ anonymous
FULL-TO-HALF-FROM-SERVER	YES NO (: NO)	<ul style="list-style-type: none"> ◦ DEC JIS ◦ YES ◦ ASCII-SERVER-TYPE
HALF-TO-FULL-TO-SERVER	YES NO (: NO)	<ul style="list-style-type: none"> ◦ DEC ◦ JIS ◦ YES ◦ ASCII-SERVER-TYPE
ISO7-TO-ROMAN8	YES NO (: NO)	<ul style="list-style-type: none"> ◦ TRANSLATE-FILES YES ◦ PC ISO-7 ◦ NRC 8 ◦ YES ◦ NATIONAL-REPLACEMENT-SET
KANJI-AUTO-DETECT	YES NO (: NO)	<ul style="list-style-type: none"> ◦ (JIS EUC DEC)
MCS-TO-NRC	YES NO (: NO)	<ul style="list-style-type: none"> ◦ TRANSLATE-FILES YES ◦ YES ◦ DEC ◦ NATIONAL-REPLACEMENT-SET
	< > (: USASCII)	

SET

NATIONAL-
REPLACEMENT-
SET

TRANSLATE-FILES ()
TRANSLATE-DIRECTORY-LISTING YES
◦
◦PC
◦
◦ SFTP
◦

NRC-TO-MCS

YES | NO (:
NO)

TRANSLATE-FILES ()
TRANSLATE-DIRECTORY-LISTING YES
◦FTP PC
◦YES NRC
DEC ◦
NATIONAL-REPLACEMENT-SET
◦ SFTP ◦

PASSIVE

| (:
)

passive (PASV)
PASV ◦PASSIVE
YES ◦FTP
◦
passive SFTP
◦

PASSTHROUGH-
AUTHENTICATION

YES | NO (:
NO)

◦
◦PASSTHROUGH-AUTHENTICATION
YES ◦ USE-
PASSTHROUGH-SERVER NO
◦PASSTHROUGH-SERVER-STYLE
SITE-SERVERNAME ◦

PASSTHROUGH-
PASSWORD

< > (:)

◦
◦
◦

PASSTHROUGH-
SERVER-STYLE

< > (: SITE-
SERVERNAME)

◦FTP
◦FTP
◦

PASSTHROUGH-
SERVERNAME

< > (:)

SET

			FTP	
PASSTHROUGH- USERNAME	< > (:)		PASSTHROUGH-USERNAME	
PASSWORD	< > (:)	FTP		
PORT-NUMBER	0 65535 (:0)	TCP	FTP	
		0	FTP	FTP
		(21)	SFTP	
PRESERVE-FILE- DATE	YES NO (: NO)	NO		
PROXY-SERVER	<value>	SOCKS	FTP	SOCKS PROXY
PROXY-SERVER		PROXY SERVER		
QUIET-STATUS	YES NO (: NO)			
RESUME-PARTIAL- TRANSFERS	ALWAYS NEVER ASKUSER (: ASKUSER)		BINARY	FTP
			PC	
ROMAN8-TO-IS07	YES NO (: NO)	TRANSLATE-FILES	YES	
			8	
		NRC		
		YES	SFTP	
SAVE-PASSWORD				

SET

	YES NO (: NO)	
SAVE-PASSTHROUGH-PASSWORD	YES NO (: NO)	NO
SERVER-HOME-DIRECTORY	< >	FTP SFTP () ◦FTP SFTP
SERVERNAME	< > (:)	◦ Hosts ◦ HOSTS IP ◦
SMART-ASCII-TYPES	(: txt,bat,htm,html,ini)	◦ TRANSFER-METHOD SMART ASCII ◦ ◦ ◦ SET SMART-ASCII-TYPES txt,bat,htm,html,ini
SMART-BINARY-TYPES	< > (: exe ·gif ·jpg ·wav)	◦ TRANSFER-METHOD SMART ◦ ◦ ◦ SET SMART-BINARY-TYPES exe,gif,jpg,wav
SMART-TENEX-TYPES	< > (:)	◦ TRANSFER-METHOD SMART Tenex (8) ◦ ◦ ◦ SET SMART-TENEX-TYPES edd,gol,mmd,lad
SMART-TYPE-DEFAULT	ASCII BINARY TENEX ASK USER (:)	◦ TRANSFER-METHOD SMART SMART-ASCII-TYPE SMART-BINARY-TYPE SMART-TENEX-TYPE ◦

SET

		TYPE-DEFAULT	SMART-
SPACES-PER-TAB	1-20 (:8)	1 (SPACES-TO-TABS) 1 (TABS-TO-SPACES) SFTP	
SPACES-TO-TABS	YES NO (: NO)	1 SPACES-PER-TAB SFTP	YES
TABS-TO-SPACES	(:)	YES FTP SFTP	()
TIME-LOGGED-IN	()	[]-[] Windows	
TIME-SINCE-LOGIN	()	[]-[] Windows	
TIMEOUT-CONNECT	0 65535 (:120)	0 FTP SFTP	
TIMEOUT-SESSION	0 - 65535 (:120)	0 FTP SFTP	
TRANSFER-8.3-CASE	LOWER UPPER PRESERVE (: LOWER)	DOS 8.3 / CREATE-SERVER-UPPER YES	

SET

TRANSFER-DISPOSITION	< > (: OVERWRITE)	<ul style="list-style-type: none"> ◦ ·APPEND · PROMPT ·CANCEL ·OVERWRITE ·SKIP · UPDATE ·UNIQUE ◦UPDATE · ◦UNIQUE · ◦
TRANSFER-ELAPSED-TIME	()	<ul style="list-style-type: none"> ◦ Windows []-[] ◦
TRANSFER-METHOD	< > (: SMART)	<ul style="list-style-type: none"> ◦ ·ASCII ·BINARY ·TENEX ·SMART ◦
TRANSFER-SPEED	()	<ul style="list-style-type: none"> ◦ ·1 KB ◦ ◦
TRANSLATE-DIRECTORY-LISTING	YES NO (: NO)	<ul style="list-style-type: none"> ◦ ·FTP ◦ [] · SET : SET ASCII-CLIENT-TYPE ·SET ASCII-SERVER-TYPE ·SET NATIONAL-REPLACEMENT ·ISO7-TO-ROMAN8 ·SET NRC-TO-MCS ◦ SFTP ◦
TRANSLATE-FILES	YES NO (: NO)	<ul style="list-style-type: none"> ◦YES ·PC · ◦ ◦ [] · SET : ◦ : SET ASCII-CLIENT-TYPE ·SET ASCII-SERVER-TYPE ·SET NATIONAL-REPLACEMENT ·SET ISO7-TO-ROMAN8 ·SET ROMAN8-TO-ISO7 ·SET NRC-TO-MCS · SET MCS-TO-NRC ◦ SFTP ◦ ◦
		<ul style="list-style-type: none"> FTP ◦YES ·FTP

SET

USE-PASSTHROUGH-SERVER	YES NO (: NO)	: PASSTHROUGH-SERVER-STYLE ·PASSTHROUGH-SERVERNAME ·PASSTHROUGH-USERNAME ·PASSTHROUGH-PASSWORD · PASSTHROUGH-AUTHENTICATION °
USE-SOCKS	YES NO (: NO)	·SOCKS °YES ·FTP SOCKS °
USERNAME	< > (:)	° °
WRITE-CTRLZ	YES NO (: NO)	° YES ·FTP (^Z) °

SET

SET / SET ◦ FTP ◦

SET

ABORT-ON-ERROR			o
ACCOUNT	[]	[]	[]
ANONYMOUS	[]	[]	[anonymous]
ASCII-CLIENT-TYPE	[]	[]	
ASCII-SERVER-TYPE	[]	[]	
AUTO-SERVER-UPDATE	[]	[]	[]
CLIENT-HOME-DIRECTORY	[]	[]	[]
CONFIRM-DELETE	[]	[]	[]
CREATE-SERVER-UPPER	[]	[]	[8.3]
CREATE-8.3-FILENAMES	[]	[]	[Windows 8.3]
CTRL-Z-EOF	[]	[]	[]
DELETE-TRAILING-SPACES	[]	[]	[]
EMAIL-ADDRESS	[]	[]	[anonymous]
FULL-TO-HALF-FROM-SERVER	[]	[]	[]
HALF-TO-FULL-TO-SERVER	[]	[]	[]
ISO7-TO-ROMAN8	[]	[NRC 8]	[]
KANJI-AUTO-DETECT	[]	[]	[]

SET

MCS-TO-NRC	[]]	[DEC	NRC
NATIONAL-REPLACEMENT-SET	[]	[ISO-7/NRC]	
NRC-TO-MCS	[]]	[NRC	DEC
PASSIVE	[]]	[]	[passive
PASSTHROUGH-AUTHENTICATION	[] []	[]	
PASSTHROUGH-SERVERNAME	[] []	[]	
PASSTHROUGH-USERNAME	[] []	[]	
PASSWORD	[]	[]	[]
PORT-NUMBER	[]]	[]	[TCP
PRESERVE-FILE-DATE	[]]	[]	[
PROXY-SERVER	[] SOCK °		
QUIET-STATUS	[]]	[]	[
ROMAN8-TO-ISO7	[]	[8	NRC]
SAVE-PASSWORD	[]]	[]	[
SAVE-PASSTHROUGH-PASSWORD	[] []	[]	
SERVER-HOME-DIRECTORY_SERVER_HOME_DIRECTORY	[]]	[]	[

SET

SERVERNAME_SERVERNAME	[]	[]	[FTP]
SMART-ASCII-TYPES	[]	[]	
SMART-BINARY-TYPES	[]	[]	
SMART-TENEX-TYPES	[]	[]	
SMART-TYPE-DEFAULT	[]	[]	[]
SPACES-PER-TAB	[]	[]	[]
SPACES-TO-TABS	[]	[]	[]
TABS-TO-SPACES	[]	[]	[]
TIME-LOGGED-IN	[]	[]	[]
TIME-SINCE-LOGIN	[]	[]	[]
TIMEOUT-CONNECT	[]	[]	[]
TIMEOUT-SESSION	[]	[]	[]
TRANSFER-8.3-CASE	[]	[]	[/]
TRANSFER-DISPOSITION	[]	[]	
TRANSFER-ELAPSED-TIME	[]	[]	[]
TRANSFER-METHOD	[]	[]	
TRANSFER-SPEED	[]	[]	[]
TRANSLATE-FILES	[]	[]	
USE-PASSTHROUGH-SERVER			

SET

[]

°

USE-SOCKS

[]

SOCKS

°

USERNAME

[]

[]

[]

WRITE-CTRLZ

[]

[]

[]

[CTRL-Z]

Site_Specific **SET**

SET

- CREATE-SERVER-UPPER
- TRANSFER-8.3-CASE

- PRESERVE-FILE-DATE
- CREATE-8.3-FILENAMES

SET

- ASCII-CLIENT-TYPE
- ASCII-SERVER-TYPE
- NATIONAL-REPLACEMENT-SET

- MCS-TO-NRC
- ROMAN8-TO-ISO7

- ISO7-TO-ROMAN8
- NRC-TO-MCS

ASCII SERVER TYPE SET

ASCII-SERVER-TYPE SET

< > /

o

DEC-SUPPLEMENTAL	ISO-LATIN-2	BIG-5	DEC-Hebrew
ISO-LATIN-1	ISO-LATIN-5	CCDC	7-Bit-Hebrew
PC-ENGLISH	ISO-LATIN-6	GB-Chinese	DEC-Cyrillic
PC-MULTILINGUAL	ISO-LATIN-7	KS-5601-Korean	HP-Turkish
HP-ROMAN-8	ISO-LATIN-8	HP-Greek	DEC-Turkish
PC-SLAVIC	ISO-LATIN-9	DEC-Greek	PC-Spanish
PC-CYRILLIC-855	SHIFT-JIS	PC-Greek	PC-Turkish
PC-MODERN-TURKISH	JIS-X0208-1990	YUASCII	SBIG-5
PC-PORTUGUESE	JIS-X0208-1983	PC-Cyrillic	THAI-988-TISO
PC-ICELANDIC	JIS-C6226-1978	JIS-Katakana	THAI-TISO
PC-CANADIAN-FRENCH	DEC-1983-KANJI	NEC-N88	THAI-KU
PC-ARABIC	DEC-1978-KANJI	PC-Hebrew	THAI-PRIME
PC-NORDIC	EUC	HP-Hebrew	HP-Hebrew
PC-MODERN-GREEK	PC-MODERN-GREEK		

NATIONAL-REPLACEMENT-SET

NATIONAL-REPLACEMENT-SET SET

< > ↗

◦

USASCII	GERMAN
DANISH	SWISS-GERMAN
DUTCH	ITALIAN
CANADIAN-ENGLISH	SPANISH-LATIN
FINNISH	NORWEGIAN
FLEMISH	PORTUGUESE
FRENCH	SPANISH-EUROPEAN
CANADIAN-FRENCH	SWEDISH
SWISS-FRENCH	BRITISH

ABORT-ON-ERROR Script Sample

ABORT-ON-ERROR NO **MGET** YES **MDEL** **PUT** ◦

```
SET ABORT-ON-ERROR NO
CD /home/user1/reports
CONTINUE ON
MGET june*.rpt
CD /home/user2/reports
MGET june*.rpt
SET ABORT-ON-ERROR YES
MDEL june*.rpt
CD /home/user1/reports
MDEL june*.rpt
SET ABORT-ON-ERROR NO
CD /home/yearly
CONTINUE
MGET ye20*.rpt, ye20*.txt
SET ABORT-ON-ERROR YES
CD /tmp
PUT ye2000.txt
PUT ye2000.rpt ye2000.txt APPEND
```

12.2.30 SITE

```
:site < >
```

FTP

```
SITE / SITE °
```

```
FTP / SITE FTP °
```

```
QUOTE help site
```

```
QUOTE / SITE ° °
```

```
<argument> FTP SITE °
```

```
/ °
```

```
SITE idle
```

```
/ ° °
```

```
200 Current IDLE time limit is 900 seconds; max 7200
```

```
/ 1800 °
```

```
SITE idle 1800
```

12.2.31

: system

FTP

SYSTEM / FTP ° /FTP °

/FTP SYSTEM / °

215 UNIX Type: L8

12.2.32 TYPE

: type < >

FTP

TYPE / FTP °

< >

°

°

·FTP /Users/boris hardware.txt °

TYPE /Users/boris/hardware.txt

12.2.33 VERIFY

```
:verify [ ] [<SET >] [changed]
```

FTP

```
VERIFY 1
```

```
SET
```

```
VERIFY Reflection
```

```
SET
```

```
<set >
```

```
SET
```

```
✓ NATIONAL-REPLACEMENT-SET
```

```
VERIFY NATIONAL-REPLACEMENT-SET
```

```
✓ SET
```

```
VERIFY
```

12.3 SFTP

12.3.1 SFTP

:

- [ASCII]
- BINARY
- BYE
- CD
- CHMOD
-
- GET
- LCD
- LLS
- LMKDIR
- LPWD
- LS
- MGET
- MKDIR
- MPUT
- PROGRESS
- PUT
- PWD
- QUIT
- RENAME
- RM
- RMDIR
- SET
- SMART
- TENEX

12.3.2 [ASCII]

: `ascii`

- [FTP](#)
- [SFTP](#)

ASCII

ASCII

◦

PC

◦

◦

12.3.3 BINARY

: binary

- FTP
- SFTP

BINARY () °.EXE 2 PC ()
2 (PC) °

12.3.4 BYE

: bye

SFTP

BYE ◦

.SFTP ◦

12.3.5 CD

: cd < >

- FTP
- SFTP

CD ·FTP ◦

< >

·UNIX [Asian Artists] ◦

CD Asian Artists

·VAX/VMS ◦

CD SYS\$USERS: [ARNOLD.DOCS]

12.3.6 CHMOD

```
: chmod < > < >
```

- FTP
- SFTP

CHMOD

```
< UNIX chmod 3 0 7 :  
> [ ] 3
```

```
< FTP  
>
```

```
-IW-I--I--
```

```
chmod 644 myfile.htm
```

12.3.7

: exit

- FTP

- SFTP

EXIT ◦

12.3.8 GET

```
:get < > [to] [< >] [append | askuser | cancel | overwrite | skip |
unique]
```

- FTP
- SFTP

```
Get / PC GET
MGET
```

```
GET / ASCII BINARY TENEX2 SMART [ ]
```

```
SET
< >
```

```
to < > PC TO
```

```
append | askuser | cancel |
overwrite | skip | unique TRANSFER-DISPOSITION
```

```
/ MEMO.DOC PC PC
```

```
GET MEMO.DOC
```

```
/VAX/VMS FTP MORTGAGE.PAPERS PC PC MORTGAGE.TXT
```

```
GET MORTGAGE.PAPERS MORTGAGE.TXT
```

12.3.9 LCD

```
: lcd [<pc / > | ..]
```

FTP SFTP

LCD PC ◦

< > LCD PC ◦

FTP [LCD F:\Documents] Return ◦

<pc \ > () ◦

.. ◦

D: Asian Travel China ◦

```
LCD d:\Asian Travel\China
```


12.3.10 LLS

```
: ll$ <pc >
```

SFTP

```
LLS / PC *
```

```
  .SFTP  .FTP  LDIR *
```

```
<pc > PC / / * / PC
> *
```

```
 / PC .DOC *
```

```
LLS *.Doc
```

12.3.11 LMKDIR

```
: lmkdir <pc >
```

SFTP

```
LMKDIR /PC °
```

```
  /SFTP  /FTP      LMD °
```

```
<pc >      (      ) °
```

```
  / PC      MUSIC °
```

```
LMKDIR \Music
```

12.3.12 LPWD

: lpwd [<pc / > | ..]

SFTP

LPWD PC ◦

< > / LPWD PC ◦

FTP [LPWD F:\Documents] Return ◦

SFTP FTP LCD ◦

<pc \ > () ◦

.. ◦

/ D: Asian Travel China ◦

LPWD d:\Asian Travel\China

12.3.13 LS

```
: ls [< >]
```

FTP

LS (DIR)°

```
< >
```

°

UNIX FTP °

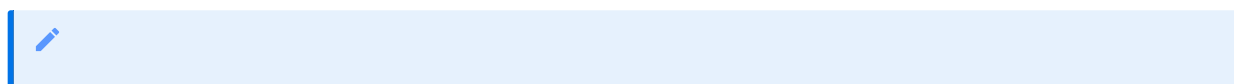
```
LS *.*
```

12.3.14 MGET

: mget < > [to] [<pc >] [append | askuser | cancel | overwrite | skip | unique]

- FTP
- SFTP

MGET / 1 FTP PC .
 < > . LS / MGET



Reflection ·SFTP MGET ·SFTP /

MGET / ASCII ·BINARY ·TENEX · SMART []
 .
 / SET . / .

< > () PC 1 .
 < > ·PC .

to <pc > PC / PC . TO .

< > / <pc >
 . 1 PC / <pc >
 > ·APPEND .

MGET*.* "C:\My documents*.*"

append | askuser | . /
 cancel | overwrite | TRANSFER-DISPOSITION .
 skip | unique

/ .Doc FTP PC .

MGET *.Doc

- [A]
- [test.txt] [Atest.txt]

MGET *.* A*.*

- [ABORT_ON_ERROR Script Sample](#)

12.3.15 MKDIR

: mkdir < >

SFTP

MKDIR

·SFTP

·FTP

MD

< >

·FTP UNIX

Films

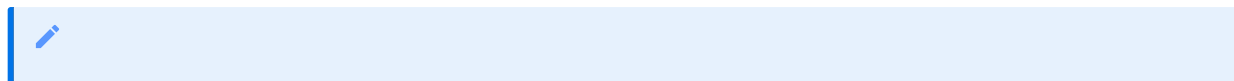
MKDIR Films

12.3.16 MPUT

: mput <pc > [to] [< >] [append | askuser | cancel | overwrite | skip | unique]

- FTP
- SFTP

MPUT 1 PC FTP



Reflection SFTP MPUT SFTP

MPUT ASCII BINARY TENEX SMART []

SET

<pc >

PC

PC

PC

(? *)

.TXT

MPUT *.Txt

MPUT "C:\My documents*.*)"

to < >

PC

1

(

)

< >

PC

TO

append | askuser |

cancel | overwrite |

TRANSFER-DISPOSITION

skip | unique

·PC Meeting Notes .doc ·
PC °

MPUT "Meeting Notes*.Doc" skip

· [A] ° ·[Sample.htm] [ASample.htm] °

MPUT *.htm A*.htm

· PC °

MPUT *.* *

12.3.17 PROGRESS

: progress

SFTP

-
- SFTP

12.3.18 PUT

: put < > [to] [< >] [append | askuser | cancel | overwrite | skip | unique]

- FTP
- SFTP

PUT ·PC ◦

PUT · ◦ ·PUT MPUT ◦

[PUT] · · ASCII ·BINARY ·TENEX · SMART []

◦

· SET ◦ · ◦

< > PC ◦ · ◦

to < > ◦ · ◦ ·

PC ◦ TO ◦

append | askuser | cancel | ◦ ·

overwrite | skip | unique TRANSFER-DISPOSITION ◦

·PC MEMO.DOC ◦

PUT Memo.doc

·PC VAX/VMS FTP HAPPY.ME ·VMS HAPPY.BIRTHDAY ◦

PUT HAPPY.ME TO HAPPY.BIRTHDAY

·ABORT_ON_ERROR Script Sample ◦

12.3.19 PWD

: pwd

- FTP
- SFTP

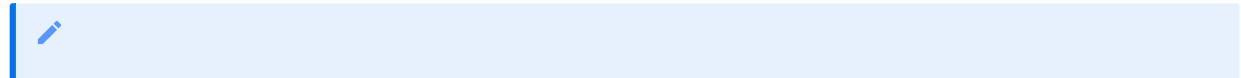
PWD ° ° FTP °

12.3.20 QUIT

:quit

- FTP
- SFTP

QUIT ◦



Windows

/RFS

QUIT

FTP

◦

12.3.21 RENAME

```
: rename < > < >
```

- FTP
- SFTP

```
RENAME / . . . . . RENAME /
```

```
o / . . . . . o
```

```
< > . . . . . < >
```

```
> / . . . . . "/Maps/North America" o
```

```
< > . . . . . < >
```

```
>
```

```
"D:\To do\Work assignments"
```

```
RENAME / . . . . .
```

```
Map of Canada Canada o
```

```
RENAME "Map of Canada" Canada
```

```
Maps Europe England Great Britain o
```

```
RENAME /Maps/Europe/England "/Maps/Europe/Great Britain"
```

12.3.22 RM

: rm < >

SFTP

RM .SFTP °

.SFTP °FTP **DELETE** °



SET CONFIRM-DELETE YES / / °

< ° ° ° /

> °

/ **MEMO.DOC** °

RM MEMO.DOC

12.3.23 RMDIR

: rmdir < >

SFTP

RMDIR

.SFTP



SET

CONFIRM-DELETE YES

<

< >

>

Articles

RMDIR Articles

12.3.24 SET

```
: set <SET > < >
```

- FTP
- SFTP

```
SET Reflection ° / SET °
```

```
SET TABS-TO-SPACES NO
SET TRANSFER-DISPOSITION Overwrite
SET TRANSFER-METHOD Ascii
SET TRANSLATE-FILES NO
```

- SET
- SET
- SET

12.3.25 SMART

: smart

FTP SFTP

SMART / FTP °

FTP / ° (/ Tenex) / [] []
°

12.3.26 TENEX

: tenex

FTP

SFTP

TENEXI [8] °DECsystem-20 ·1 8
· °

13.

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