ND SOFTWARE LIBRARY DISKETTE

PAGE 1

Containing : COSMOS TELNET/FTP Client

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Directory Name : 211154B05-XX-01D

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No	File name	Туре	T	Pub	lic F:	riend	Own	Pag	es	Bytes
0	FTP-CLIENT-B05	PROG	I	R	R		R	1	06	372736
1	TELNET-CLIEN-B05	PROG	I	R	R		R	1	10	387072
2	TERMCAP	TDV	I	R	R		R		3	3559
3	AIP-HOSTS	SYMB	I	R	R		R		7	726
4	AIP-NETWORKS	SYMB	I	R	R		R		2	680
5	AIP-PROTOCOL	SYMB	1	R	R		R		2	785
6	AIP-SERVICES	SYMB	I	R	R		R		3	3350
[′] 7	files using 233	pages	*	600	pages	rese	rved o	ut of	610	pages.

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Date 88.07	.06 Norsk Data A.S PROGRAM DESCRIPTION	Page 1	. of 8
Product	Name COSMOS TELNET/FTP Client	ND-no. 211154B	Category STPR
Reason	X Change/Addition		
Documen- tation	Title COSMOS TELNET/FTP user guide	60.	ND-no. 284.1 EN
Purpose	To allow terminal and file access and remote systems running TCP/IP systems need not run SINTRAN, and vendors.	over Etherne	t. These
Prerequi- sites	ND-110 Satellite mod. S5, S9, T9 and T17 ND-100 All ND-500 All	Op. system V SIN III VSX SIN III VSX SIN III VSX SIN III VSX SIN III VSX	>=J4000 >=J4000 >=J4000
	ND no Product Name 110063 Ethernet-II controller 211185 COSMOS TCP/IP gateway	(1-board ver	sion)
	ND-no. Product name 10373K X-MESSAGE		
	Minimum mass storage resources for User Userspace N O pages on	umber of fil	
	Minimum permanent mass storage res User Userspace N Any User 250 pages on	umber of fil	es
	Max/Min number of RT-descriptions: Max/Min number of segments: Space requirements on segment file	Max 0	
Product consists of	MODULE-no. Name 211154 COSMOS TELNET/FTP clients	ND-no. for 250253B	Source
File Name	Type Containing		······

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File Name	Туре	Containing	
FTP-CLIENT-B <rev></rev>	PROG	FTP client program	
TELNET-CLIEN-B <rev></rev>		TELNET client program	
AIP-HOSTS		Internet hosts file	
AIP-SERVICES		Internet services file	
AIP-NETWORKS		Internet networks file	
AIP-PROTOCOL		Internet protocols file	

NOTE: <rev> and <lang> are to be replaced by the current revision and language of the DIRECTORY or FILE. The revision level and language is found on the preceding "ND SOFTWARE LIBRARY DISKETTE" pages. .

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TABLE OF CONTENTS

Se	ection	Page
1	GENERALITIES	2
	1.1 New Features	2
	1.2 Corrected Errors	3
	1.3 Restrictions	3
	1.4 Know errors	3
2	HOW TO CHECK PREREQUISITES	3
	2.1 User Space	3
	2.2 Computer Type and Patch File	4
	2.3 TCP/IP Software	4
3	REMOVING TCP/IP VERSION A	6
4	INSTALLATION	6
5	STARTUP	6
6	USING UNIX SCREEN ORIENTED APPLICATION	7

Date 88.07	.06 Norsk Data A.S PROGRAM DESCRIPTION	Page 2 of 8		
Product	Name	ND-no.	Category	
	COSMOS TELNET/FTP Client	211154B	STPR	

1 GENERALITIES

1.1 New Features

- TELNET:
 - You now have the possibility to specify the host name after the name of the program: Example:

@TELNET-CLIEN-B<rev> computerName

and you are directly connected to the host named computerName.

 the ESCAPE command allows a user to change the ESCAPE character. If you want to change it to another control character, type the character ^ and then the actual letter. Example:

```
telnet> escapeJ
new escape character: ^Q
Escape character is: "^Q"
telnet>
which means "<ctrl>+O"
```

- by typing this ESCAPE character during a session in TELNET CLIENT, you will go to the command mode. Type CR (carriage return) twice to return to your actual session.
- automatic disconnect when logging out.
- FTP:
 - You are allowed to use FTP-CLIENT through a TELNET connection.
 - You now have the possibility to specify the host name after the name of the program:
 Example:

@FTP-CLIEN-B<rev> computerName

and you are directly connected to the host named computerName.

- DELETE <file name> :Deletes the specified file at the server site.
- LS <file name>, MPUT <file name>, MDELETE <file name>, MGET <file name> : the file name specified can contain wildcard characters. The matching syntax uses both SINTRAN and UNIX abbreviation syntax.
- Sintran error messages are displayed when a Sintran error occurs.

Date 88.0	7.06 Norsk Data A.S PROGRAM DESCRIPTION	Page	Page 3 of 8		
Product	Name	ND-no.	Category		
	COSMOS TELNET/FTP Client	211154B	STPR		

1.2 Corrected Errors

- IN TELNET

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- The "\$" prompt is displayed.
- the "#" character is displayed.
- the "Go-To" key in notis-wp works.
- the UE log-in picture is displayed correctly.
- IN FTP
 - in FTP-client, if logging on to a user which has no space in default directory, the corresponding error message is displayed.
 - FTP does not hang when transferring empty files.

1.3 Restrictions

- The FTP server is not able to handle larger files than 16 megabytes.
- Warning Some file systems may have only <cr> as end-of-line. The SINTRAN file system has <cr><1f> as end-of-line in symbolic files. It may therefore occur differences in filesizes on transfering files between SINTRAN and some UNIX systems.

1.4 Know errors

In some special cases, the Telnet connection is not been released on the server site. This error is corrected in SINTRAN work mode 500.

2 HOW TO CHECK PREREQUISITES

2.1 User Space

To install TELNET-CLIENT and FTP-CLIENT software, you might create a special user or use an already existing user (example: UTILITY). This user needs 250 pages.

By using the command @USER-STATISTICS check that you have sufficient free pages on the disk before installing the software.

Date 88.07	.06 Norsk Data A.S PROGRAM DESCRIPTION	Page 4	4 of 8
Product	Name	ND-no.	Category
	COSMOS TELNET/FTP Client	211154B	STPR

2.2 Computer Type and Patch File

The computer type and operating system version is checked by the SINTRAN command @LIST-TITLE.

Example

@LIST-TITLE

SINTRAN III - VSX/500 K MYCOMPUTER STANDARD CONFIGURATION: С 312B BETA TEST (WORK MODE NO.): REVISION (PATCH FILE NO.): 105000B CPU TYPE: 100 CPU NUMBER: 6666 13.14.00 **15 SEPTEMBER** 1987 GENERATED: 0

You should have the patch file number 5000.

2.3 TCP/IP Software

The presence of the COSMOS TCP/IP software is necessary to run the FTP-CLIENT and TELNET-CLIENT.

Check it by doing the LIST-NAMES command in the XMSG-COMMAND processor. If installed, the TCP/IP port names are present.

If you have the TCP/IP running on a machine other than where the FTP and TELNET clients will run, (or COSMOS file-access will be used), the COSMOS Basic module (10374) has to be installed.

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Date 88.07	.06	Norsk Data PROGRAM DES			Pa	age !	5 of 8	
Product	Name COSMOS TELN	NET/FTP Clien [.]	t		ND-1 211	no. 154B	Catego STPR	
Example with	TCP/IP on th	ne local comp	uter					
@XMSG-COMMAN	D							
Compiled for	version 1986	0373K) of 86.(5.04.03 (Relea .04.03 (Relea	ase	K))			
	only. XPIT.							
	tem: Network o get a list	gateway. of the new co	omma	nds.)				
	-			,				
X-C(Adv): <u>lis</u> XROUT system								
System Por		Name						
7777 0		YOURCOMPUTER						
6666 0		MYCOMPUTER						
6666 2	_	*TADADM.						
6666 3 6666 4		*XFTRA.						
6666 4 6666 0	—	*FA-FSA. *TCP.	= >	TCP por	t name			
0000 0		ICF.	-/	ICF POI	t name			
X-C(Adv): <u>ex</u> J								
e								
e								
		remote comput	ter					
@XMSG-COMMANI	D							
XMSG command	program (210)373K) of 86.0	04.0	3 16:09)			
		5.04.03 (Relea						
	version 1986.	.04.03 (Releas	se K)				
Options:								
	only. XPIT.							
	tem: Network			-d-)				
(Type ? to	5 get a list	of the new co	omma	nas.)				
X-C(Adv):lis	t-namesJ							
XROUT system								
System Por		Name						
7777 0		YOURCOMPUTER						
6666 0 6666 2		MYCOMPUTER						
6666 2 6666 3		*TADADM. *XFTRA.						
6666 4		*FA-FSA.			v,			
7777 0		*TCPGATE	=>	TCP DOT	t name	for	remote	
· · · · · · · · ·				clients				
X-C(Adv): exJ								

Date 88.07.06

Norsk Data A.S PROGRAM DESCRIPTION

Product

Name COSMOS TELNET/FTP Client

ND-no. 211154B

Category STPR

3 REMOVING TCP/IP VERSION A

If the A version is installed, remove it before installing the B version by performing the following commands:

@DELETE-REENTRANT TELNET-CLIENT @DELETE-REENTRANT FTP-CLIENT @DELETE-FILE (<UserName>)TELNET-CLIEN-A<rev>:prog @DELETE-FILE (<UserName>)FTP-CLIENT-A<rev>:prog

rename the following file:

@RENAME-FILE AIP-HOSTS-A<rev>:SYMB AIP-HOSTS:SYMB

and delete these files :

@DELETE-FILE AIP-SERVICES-A<rev>:SYMB @DELETE-FILE AIP-NETWORKS-A<rev>:SYMB @DELETE-FILE AIP-PROTOCOL-A<rev>:SYMB

4 INSTALLATION

Insert the floppy and enter directory:

@ENTER-DIRECTORY 211154B<rev>-<lang>-01D

Copy the files FTP-CLIENT-B<rev>:PROG and TELNET-CLIEN-B<rev>:PROG to user of your choice with public read access, and dump them reentrant:

@DUMP-PROGRAM-REENTRANT TELNET-CLIEN-B<rev> (<USERNAME>)TELNET-CLIEN-B<rev>:PROG @DUMP-PROGRAM-REENTRANT FTP-CLIENT-B<rev> (<USERNAME>)FTP-CLIENT-B<rev>:PROG

If TCP/IP is on a remote computer, please copy the files:

- AIP-HOSTS:SYMB
- AIP-SERVICES:SYMB
- AIP-NETWORKS:SYMB
- AIP-PROTOCOL:SYMB

to user SYSTEM with public read access.

Add your own internet-address to the AIP-HOSTS:SYMB file using a 7bit editor.

5 STARTUP

Run the programs:

@TELNET-CLIEN-B<rev>J @FTP-CLIENT-B<rev>J

Date 88.07.06 Norsk Data A.S Page 7 of 8 PROGRAM DESCRIPTION

ProductName
COSMOS TELNET/FTP ClientND-no.Category
STPR

6 USING UNIX SCREEN ORIENTED APPLICATION

In order to use screen based applications such as VI on a UNIX system, the UNIX system must be configured for the terminal capabilities of the Tandberg Terminals and/or OWS terminal emulator.

The system manager of the UNIX machine must insert the following lines, describing the emulators functionality, into the file /etc/termcap on BSD systems or /etc/terminfo on System V machines.

This can be done this way:

- Transfer the file "termcap:tdv" from the floppy to "term.tdv" in your home directory (eg. /usr/admin) by using FTP,
- 2) Change directory to /etc and run: 'cp termcap termcap.old' to make sure you have a backup copy of the original file.
- 3) Go back to your home directory and type: 'cat term.tdv >> /etc/termcap' to add the new definitions in the file "termcap". The installation for the system is now complete.
- 4) If the user is using Tandberg terminals: - For each user that is going to use the Tandberg terminal towards the host, enter 'set term=nd246' or 'set term=nd200' or 'set term=nd320' according to the Tandberg terminal type, in ~/.profile (~ means home directory eg. /usr/epa for user epa) if they are using the C shell(/bin/csh). If they are using Bourne shell (/bin/sh), enter (note the capital letters) in the .profile. 'TERM=nd246' or 'TERM=nd1200' or 'TERM=nd320'
- 5) If the user is using OWS terminal emulator: - For each user that is going to use the OWS terminal emulator towards the host, enter 'set term=tdv2200' in ~/.profile (~ means home directory eg. /usr/epa for user epa) if they are using the C shell(/bin/csh). If they are using Bourne shell (/bin/sh), enter 'TERM=tdv2200' (note the capital letters) in the .profile.

Date 88.07	2.06 Norsk Data A.S PROGRAM DESCRIPTION	Page	B of 8
Product	Name	ND-no.	Category
	COSMOS TELNET/FTP Client	211154B	STPR

- 6) Users that will also use other terminals (like the VT 100), they can switch terminal type after having logged in with the commands:
 - unsetenv termcap
 - set term=tdv1200 # beware that no spaces should be inserted before 'nd246'.
 - printenv # check the setting

For the Tandberg terminals, you have to change the Configuration Menu:

- Type twice "CTRL+HELP" to enter the configuration menu,
- Enter the "Function Switches Menu" and type "ENTER",
- To accept escape sequences, the field "Extended Control Mode" field should be "ON",
- Type the "ESC" key to exit the menu, type "ENTER" to make the switches permanent, type "ESC" to exit the configuration menu.