

DFA FVT User's Guide

(Functional and Operational Outline of DFA Verification Suite)

CHAPTER 1. PURPOSE.....	4
1.1 BACKGROUND OF DFA FVT.....	4
1.2 THE DFA FVT PURPOSE.....	4
CHAPTER 2. BIBLIOGRAPHY	4
CHAPTER 3. TARGETED FUNCTIONS.....	4
CHAPTER 4. OVERVIEW OF TESTING METHOD	6
4.1 DFA FVT CONFIGURATION	6
4.2 MAKING EXECUTABLE MODULES.....	7
4.2.1 Making <i>dfaagtp</i>	7
4.2.2 Making <i>dfagwtp.nlm</i>	8
4.2.3 Making <i>dfactp.exe</i>	8
4.2.4 Making <i>wait.exe/shell.exe</i>	9
4.3 MAKING THE TESTING ENVIRONMENT	10
4.3.1 Set the Environment.....	10
4.3.2 Setting Agent environment	10
4.3.3 Gateway Environment Setting	17
4.3.4 Environment Setting for Client.....	25
CHAPTER 5.TEST COVERAGE.....	40
CHAPTER 6. HARDWARE AND SOFTWARE PREREQUISITES.....	40
6.1 PREREQUISITES FOR AGENT	40
6.2 PREREQUISITES FOR GATEWAY	40
6.3 PREREQUISITES FOR THE NETWARE CLIENT	41
CHAPTER 7. TEST ITEMS	41
7.1 TEST SUITE IDENTIFIER	41
7.2 PREREQUISITE OF HARDWARE AND SOFTWARE	41
7.3 HOW TO EXECUTE THE TEST SUITE	41
7.3.1 Execution of <i>dfaagtp</i>	42
7.3.2 Execution of <i>dfagwtp.nlm</i>	42
7.3.3 Execution of <i>dfactp.exe</i>	43
7.4 STANDARD TESTING ENVIRONMENT	43
7.4.1 Minimal machine configuration	43

7.4.2 Default Control File	45
7.4.3 Default NetWare/DCE User/Group.....	46
7.4.4 Default Directory Structure for the testing.....	46
CHAPTER 8. MESSAGES.....	47
1. MESSAGES ISSUED BY AGENT	48
2. MESSAGES ISSUED BY GATEWAY	53
3. MESSAGES ISSUE BY CLIENT.....	59
CHAPTER 9. TEST ITEM LISTING.....	63
1. VERIFICATION OF DFS VOLUME MAPPING	68
2. VERIFICATION OF THE RIGHTS	82
3. VERIFICATION OF TRUSTEE CHANGE	97
4. VERIFICATION OF THE MS-DOS COMPATIBILITY (DFS DIRECTORY STRUCTURE IS UNCHANGED).....	118
5. VERIFICATION OF THE MS-DOS COMMANDS (DFS DIRECTORY STRUCTURE IS CHANGED).....	122
6. VERIFICATION OF THE FILES	130
7. VERIFICATION OF THE FILE UPDATE.....	134
8. VERIFICATION OF THE DIRECTORY UPDATE.....	144
9. VERIFICATION OF THE DCE LOGIN.....	148
CHAPTER 10. DFS DIRECTORY STRUCTURE.....	149

Chapter 1. Purpose

1.1 Background of DFA FVT

Hitachi has joined the DCE 1.2 project as a PST (Pre-Structured Technology) sponsor, and has submitted DFA (Distributed File Access) to the project. Each PST provider for DCE 1.2 is required to furnish an FVT (Functional Verification Test) to guarantee the PST's functional correctness., OSF will distribute with the PST source code the FVTs contributed by the PST sponsors to the PST licensees. The PST licensees will use the FVTs to check that the porting or modification of the licensed PST is properly performed.

1.2 The DFA FVT Purpose

The DFA FVT is designed for the DCE 1.2 source code licensees (and the PST sponsors) to test the basic functions of DFA. This test suite verifies the executed results and judges whether DFA is functionally correct. The DFA test suite does not have a program interface with DFA; instead it simulates the user's activities. The DFA test suite automatically executes and evaluates all the test items and outputs the results of the testing. The DFA test suite does not evaluate compatibility, such as the protocol or data structure.

Chapter 2. Bibliography

Table 2-1 Bibliography

#	Title	Publisher	Date
1	Microsoft Visual C++ 1.00 Online manual	Microsoft	1993
2	NOVELL SDK Vol.4 Online manual	NOVELL	1994
3	Watcom C/C++ 10.0 Online manual	Watcom	1994
4	NetWare 4.0 NLM Programming	SYBEX	1993
5	NOVELL System Administration	NOVELL	1994
6	NOVELL System Messages	NOVELL	1994
7	NOVELL Concepts	NOVELL	1994
8	NOVELL Utility Reference	NOVELL	1994

Chapter 3. Targeted Functions

The DFA FVT automatically generates the test environment (which has been made partially by hand).

The test suite checks that the environment is valid, and then executes the test items.

Table 3-1 shows the DFA functions tested by The DFA test suite.

Table 3-2 shows the functions that are not targeted by the test suite.

Users can design and add test items to DFA test suite.

Table 3-1 Functions Verified by the DFA Test Suite

#	First Level Tests	Second Level Tests	note
1	DFS volume mapping	file name conversion (file name unchanged)	
2		directory name conversion (directory name unchanged)	
3		file name conversion (file name changed)	
4		directory name conversion (directory name changed)	
5		file size	
6		full path size (using DOS commands)	
7		full path size (using DOS APIs)	
8	Trustee reference	DTLIST command	
9		DRIGHT command	
10		DLISTDIR command	
11		DNDIR command	
12	Trustee modification	DREMOVE command	
13		DGRANT command	
14		DREVOKE command	
15	MS-DOS commands (DFS subdirectory Structure unchanged)	FC command	
16		FIND command	
17		TYPE command	
18		file execution	
19	MS-DOS commands (DFS subdirectory Structure changed)	COPY command	
20		DEL command	
21		RENAME command	
22		MD command	
23		RD command	
24		writing by redirection	
25		the contents	
26	File reference	file read	
27		file locking	
28		file information get	
29	File modification	file creation/write	
30		write to existing file	
31		file deletion	
32		file rename	
33		file modification	
34	Directory handling	directory make	
35		directory delete	
36		directory rename	
37	DCE login	password change	

Table 3-2 Functions Not Verified by the DFA Test Suite

#	First Level Table	Second Level Table	note
1	File reference	file locking	
2	File change	setting the last updated date	
3		setting owners	
4	Directory change	setting owners	
5	DCE login	DCE login	
6		NetWare logout	
7	Client utilities	DLOGIN utility	
8		DLOGOUT utility	
9		DLIST utility	
10	Gateway utility	Administration utility	
11	Gateway processing	the DFA object advertisement	
12		directory synchronization	
13		copyback	
14		message sending	
15	Agent utilities	dfasetkey utilities	
16	Agent processing	DCE login update	
17		sanity checking	
18		connecting multiple gateways	

Chapter 4. Overview of Testing Method

DFA FVT consists of three executable modules. In addition to the modules, some manual work is required to provide an environment for running DFA and to build the DFA FVT environment.

You perform the following three steps to run DFA FVT:

- (1) Generate executable modules from the source code, header files, and make files.
- (2) Build an environment for the testing. Make test items if necessary.
- (3) Execute the executable modules to make the testing environment, to execute the testing, and to confirm the results.

4.1 DFA FVT Configuration

DFA FVT has the following executable modules:

Table 4-1 DFA FVT Executable Modules

#	Module Name	Location	Functions
1	dfaagtp	DFA Agent (DCE Client)	- Checks that the DCE users and groups exist. - Makes directories used for the testing and sets the ACL rights.
2	DFAGWTP.NLM	DFA Gateway (NetWare Server)	- Checks that the Gateway users and groups used for the testing exist. - Checks the Directory Structure used for the testing.
3	DFACLTP.EXE	NetWare Client	- Verifies the file system using commands and APIs.
4	WAIT.EXE	NetWare Client	- Waits for a certain amount of time. (a secondary Utility for the Client testing)
5	SHELL.EXE	NetWare Client	- Redirects standard error output. (a secondary Utility for the Client testing)

The execution of DFA FVT means running DFACLTP.EXE (an executable module) on the NetWare Client. Before executing DFA FVT, you need to run dfaagtp (an executable module) to provide a test environment on the DCE side. You also need to execute DFAGWTP.NLM (an executable module) to check that the test environment on DCE is valid for NetWare.

Each module can specify an environment built from the Configuration File and the items to be tested and confirmed.

Each executable module is situated at the following location (or machine):

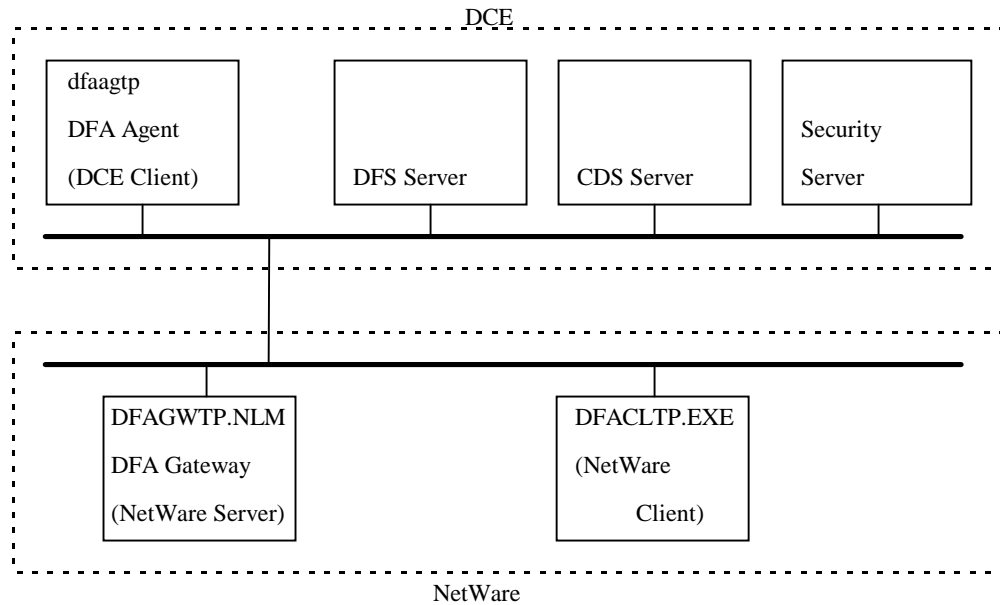


Figure 4-1 DFA FVT Configuration

4.2 Making Executable Modules

4.2.1 Making dfaagtp

An executable module, dfaagtp, is generated on the DCE Client machine. Create (manually) the following directories on the local disk of the DCE Client machine. Copy the required files from the DFA FVT master media:

```

/.../sales.hitachi.co.jp/fs/— dfaagtp/ — dfaagtp.c (*2)
(*1) — dfaagtpi.c (*2)
      — dfaagtp.h (*2)
      — Makefile (*2)

```

- (*1) You can put these directories anywhere and name them as you desire.
- (*2) Copy these files from the master media.

Figure 4-2 Directory Configuration at Compile Time

Generate the executable modules as follows:

- (1) Make the directory containing dfaagtp the current directory.
- (2) Execute “make” on a UNIX command line.

[Note]

- (1) “XL C compiler” must be installed if the DFA FVT is run in AIX.

4.2.2 Making dfagwtp.nlm

The dfagwtp.nlm, executable module runs on the NetWare server, but you should make it in the MS-DOS environment (on a NetWare Client). The machine when you make the executable module must have “WATCOM C/C++ 10.0” in the directory “c:\watcom” and “Novell SDK Vol.4” in the directory “c:\sdkcd_4.”

You need to create (manually) the following directory structure on the local disk of the NetWare Client machine. Copy required files from the master media:

```

C:\ — DFAGWTP\ — DFAGWTP.MKF (*2)
(*1) — DFAGWTP.H (*2)
      — DFAGWTP.C (*2)
      — DFAGWINIC (*2)
      — DFAGWENV.C (*2)
      — DFAGWTST.C (*2)

```

- (*1) Do not change the location and name of this directory.
- (*2) Copy these files from the master media.

Figure 4-3 Directory Configuration for WATCOM C/C++

Generate the executable modules as follows:

- (1) Make sure that c:\watcom\bin, c:\watcom\binw, and c:\watcom\binb are included in the MS-DOS PATH environment variable.
- (2) Check MS-DOS environment variables to see that the following are set:


```

EDPATH=C:\WATCOM\EDDAT
INCLUDE=C:\WATCOM\H;C:\WATCOM\H\WIN
WATCOM=C:\WATCOM

```
- (3) Since the compilation is done by the product option, execute “set qmkver=p” from the MS-DOS command line.
- (4) Make the directory in (*1) Figure 4-3 the current directory.
- (5) Execute “wmake /f dfagwtp.mkf” on the MS-DOS command line.

4.2.3 Making dfactlp.exe

You make dfactlp.nlm, an executable module, in the MS-DOS environment (a NetWare Client). The machine where you make the executable module must have Microsoft Visual C++ 1.0 (or above) in the directory “c:\msvc” and “Novell SDK Vol.4” in the directory “c:\sdkcd_4.”

You need to create (manually) the following directory structure on the local disk of the NetWare Client machine. Copy required files from the master media:

```
C:\ — DFACLTP\ — DFACLTP.MAK (*2)
      (*1)      | — DFACLTP.H   (*2)
                | — DFACLMSG.C  (*2)
                | — DFACLTP.C   (*2)
                | — DFACLCOM.C  (*2)
```

(*1) do not change the location and name of this directory.

(*2) Copy these files from the master media.

Figure 4-4 Directory Configuration for Microsoft Visual C++

Generate the executable modules as follows:

- (1) Start Microsoft Visual C++ from Windows.
- (2) Make sure that c:\sdkcd_4\client\include and c:\msvc\include are set to the include file for setting directories.
- (3) Open the project of DFACLTP.MAK. Make sure that, in the project setting, the build mode is “release,” the alignment of the structure is “1,” and the memory model is “large.”
- (4) Add “sdkcd_4\client\dos\msc\nwcalls.lib” to the project.
(The directory where Novell SDK Vol.4 is installed is “sdkcd_4”.)
- (5) Start building.

4.2.4 Making wait.exe/shell.exe

You make wait.exe/shell.exe, an executable module, in the MS-DOS environment (a NetWare Client). The software required for making the executable module is same as those described in Sections “4.2.3 Making dfactlp.exe.”

You need to create (manually) the following directory structure on the local disk of the NetWare Client machine. Copy required files from the master media:

```
C:\ — DFACLTP\ — WAIT.MAK   (*2)
      (*1)      | — WAIT.C     (*2)
                | — SHELL.MAK  (*2)
                | — SHELL.C    (*2)
```

(*1) Do not change the location and name of this directory.

(*2) Copy these files from the master media.

Figure 4-5 Directory Configuration for Microsoft Visual C++

Generate the executable modules as follows:

- (1) Start Microsoft Visual C++ from Windows.
- (2) Make sure that c:\sdkcd_4\client\include and c:\msvc\include are set to the include file for setting directories.
- (3) Open the project of WAIT.MAK. Make sure that, in the project setting, the build mode is “release,” the alignment of the structure is “1,” and the memory model is “large.”
- (4) Start building to make wait.exe.
- (5) Open the project of SHELL.MAK. Make sure that, in the project setting, the build mode is “release,” the alignment of the structure is “1,” and the memory model is “large.”
- (6) Start building to make shell.exe.

4.3 Making the Testing Environment

4.3.1 Set the Environment

The outline of the manual environment setting is as follows: Use Utilities of DCE, NetWare and DFA to register necessary information. DFA FVT provides the needed files such as the Configuration File, but if you need to change the defined data, you must have a text editor on the machine where the information resides. The details of the setting are addressed at the following sections.

Table 4-2 DFA FVT Environment Setting (Manually)

#	Location	What to Set
1	DFA Agent (DCE Client)	<ul style="list-style-type: none">- Assign a cell for making a directory structure for the testing.- Register DCE users and groups to be used for the testing.- Define the Tree Generation File.
2	DFA Gateway (NetWare Server)	<ul style="list-style-type: none">- Make the NetWare volume for the testing.- Define a directory to be as a mount point for the NetWare volume you specified for the testing.- Register NetWare users and groups to be used for the testing.- Map the NetWare users and groups to the DCE users and groups.- Register NetWare groups corresponding to other_obj and mask_obj, then map the groups to other_obj and mask_obj.- Make a directory for the control file.- Specify the Configuration File.- Specify the test items and test item registration file.
3	NetWare Client	<ul style="list-style-type: none">- Adjust the environment so that the T, U, and V drives an empty network drives.- Make a directory for the control file.- Specify the Configuration File.- Specify the test items and test item registration file.- Specify the Base File.
4	Common	<ul style="list-style-type: none">- Follow Section “4.2 Making executable modules.”

To delete the testing environment, perform the steps in table 4-2 in reverse order.

4.3.2 Setting Agent environment

To set a testing environment for Agent, you need to use the DCE commands `rgy_edit` and `acl_edit`. See the DCE manuals for information about using these commands.

4.3.2.1 Assign a cell in which to make a directory structure for the testing.

If DFA already uses a cell, you can use that cell. Make a directory for the control file in the cell. The directory, `dfaagtp`, in figure 4-6 should be made manually. The details of the other directories and files are addressed later in this chapters.

The Logging File is generated by the executable modules.

From this point, we assume that the cells and directory structure figure 4-6 already exist. Part of the directory and some file names in figure 4-6 can be changed. The details are discussed in section 4.3.2.3 “Configuration File.”

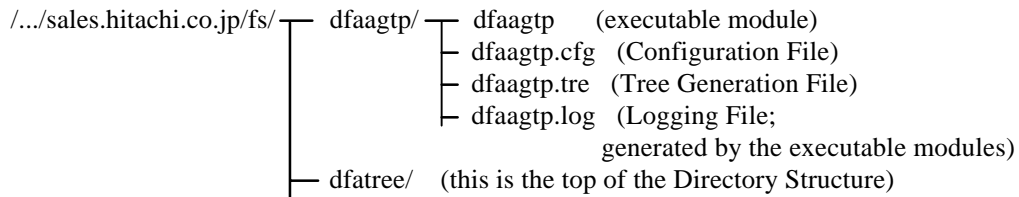


Figure 4-6 Directory Configuration for the Agent Testing

Table 4-3 The Contents of the Directory Configuration for the Agent Testing

Default value	Contents	Name	Description
/.../sales.hitachi.co.jp/fs	Cell/junction	changeable	A cell for making the directory structure and the control file for the testing. These must be in the same cell.
dfaagtp	Directory for the control file	changeable	A directory for storing the control files, (dfaagtp, dfaagtp.cfg, dfaagtp.tre, dfaagtp.log.) This directory is optional.
dfaagtp	Executable module	fixed	An executable file for the test execution.
dfaagtp.cfg	Configuration File	fixed	A control file to specify the control file path names and principal names.
dfaagtp.tre	Tree Generation File	changeable	A control file to specify the directory structure for the testing.
dfaagtp.log	Logging File	changeable	A control file for storing the test results.
dfatree	Top of the Directory Structure	changeable	The top most directory of the directory structure (hereafter called “top directory”)

The ACL setting for the dfatree, the top directory, must be as shown in Table 4-4:

Table 4-4 ACL setting for dfatree

Entry	Object ACL	Initial Value of Object ACL	Initial Value of Container ACL
user_obj	[rwxcid]	[rwxcid]	[rwxcid]
group_obj	[-----]	[-----]	[-----]
other_obj	[r-x--]	[-----]	[-----]
mask_obj	[rwxcid]	[rwxcid]	[rwxcid]

4.3.2.2 Register DCE users/groups for the testing

Register the DCE users and groups with the Security Server in the cell. This text assumes that the registration shown in Table 4-5 is completed. Although the names in Table 4-5 are fixed, a vendor, can make its own test items and can assign arbitrary names to the DCE users and groups. See Section 4.3.2.3, “Configuration File” for details.

Table 4-5 DCE Users and Groups for the Testing

Type	Name	Password	Group	Description
superuser, DCE User	dfalogin	dfalogin	-	A DCE user who makes a testing directory in the cell. This should have all the some ACL settings as the top directory.
DCE User 0	dfauser0	dfauser0	dfagroup0	A DCE user mapped onto the NetWare user who runs the Client testing.
DCE User 1	dfauser1	-	dfagroup1	Mainly a user who is an owner of the object in the directory structure.
DCE User 2	dfauser2	-	dfagroup2	Mainly a DCE user who has ACL rights (user entry) of the object in the directory structure.
DCE Group 0	dfagroup0	-	-	A DCE group containing the DCE users mapped to the NetWare users who execute the Client testing.
DCE Group 1	dfagroup1	-	-	A DCE group that is an owner group of the Directory Structure.
DCE Group 2	dfagroup2	-	-	A DCE group that has ACL rights (group entry) of the object in the directory structure.

When you execute the FDA FVT provided by the master media, DCE Group 0 must be a group that was designated when DCE User 0 was registered. Also the same rule goes between DCE Group 1 and DCE User 1. DCE User 2 must belong to DCE Group 2. In the Tree Generation File provided by DFA FVT, the object owner is DCE User 0/1, so the owner group is assumed to be DCE Group 0/1. DCE User 2 is assumed to belong to DCE Group 2.

The additional requirements are: DCE User 0 belongs to DCE Group 0, and DCE User 1 belongs to DCE Group 1.

4.3.2.3 Configuration File

The Configuration File, dfaagtp.cfg, has a fixed name. It should reside in the same directory as the executable module, dfaagtp. The File is a text file, which you can edit with a text editor. An example of the Configuration File is shown in Figure 4-7.

```

TOPDIR=../../sales.hitachi.co.jp/fs/dfatree
LOGFILE=../../sales.hitachi.co.jp/fs/dfaagtp/dfaagtp.log
TREE=../../sales.hitachi.co.jp/fs/dfaagtp/dfaagtp.tre
LOGINUSER=dfalogin
LOGINPASSWORD=dfalogin
DCEUSER0=dfauser0
DCEUSER1=dfauser1
DCEUSER2=dfauser2
DCEGROUP0=dfagroup0
DCEGROUP1=dfagroup1
DCEGROUP2=dfagroup2
    
```

Figure 4-7 Configuration File Example

Each line in the Configuration File has a format of “keyword = value.” The Table 4-6 lists the keywords:

Table 4-6 Configuration File Keywords

Keyword	Default Value	Range	Description
TOPDIR	/.../sales.hitachi.co.jp/fs/df atree	1-1024	Defines the top directory path of the directory structure.
LOGFILE	/.../sales.hitachi.co.jp/fs/df aagtp/dfaagtp.log	1-1024	Specifies the path and file name of the Logging File.
TREE	/.../sales.hitachi.co.jp/fs/df aagtp/dfaagtp.tre	1-1024	Defines the path and file name of the Tree Generation File.
LOGINUSER	dfalogin	1-1024	Sets a DCE user name, which is used by the executable module, dfaagtp, as a login name when the user enters DCE.
LOGINPASSWORD	dfalogin	1-1024	Specifies the DCE password, which the executable module dfaagtp uses when enters DCE.
DCEUSER0- DCEUSER9	-	1-1024	Selects 10 DCE users to be used for the testing.
DCEGROUP0- DCEGROUP9	-	1-1024	Sets 10 DCE groups to be used for the testing.

See Table 4-5 for the details of LOGINUSER-LOGINPASSWORD-DCEUSERn-DCEGROUPn. Those DCE Users/Groups must be registered with the Security Server in the cell where the Test Environment exists. Only the DCE Users/Groups specified in DCEUSERn and DCEGROUPn can be used as the ACL rights holders, owners, and owner groups of the directory files in the directory structure. For information about how to specify the ACL rights holders, owners, and owner groups see Section 4.3.2.5, "Tree Generation File."

[Rules]

- A keyword is not case-sensitive.
- A line starts at the first column.
- A keyword and a value are separated by =.
- A value is case-sensitive.
- Only one keyword can appear on a line.
- A line must not contain a space or a tab code.
- A line ends with a carriage return code.
- The same keyword must not appear on more than one line.
- The default value is assumed for an omitted keyword.
- The maximum length of a line is 1039 bytes, including the carriage return code.
- A comment begins with REM(uppercase or lowercase OK) or #.

4.3.2.4 Logging File

The Logging File is a text file for recording the status of dfaagtp, an executable module. This file does not exist before you run the executable module. It is generated automatically. (Its path name and file name are specified by a keyword, LOGFILE, in the Configuration File).

When you make the environment, results are displayed on the screen. This file records detailed information that you can read with a text editor and use to analyze unsuccessful attempts to make the environment.

An example of the Logging File is shown in Figure 4-8.

```

Tue Aug 01 08:45:00 1995 Tue Aug 01 08:45:05 1995 SUCCESSFUL DCELOGIN
Tue Aug 01 08:45:00 1995 Tue Aug 01 08:45:05 1995 SUCCESSFUL CONFIG
Tue Aug 01 08:45:00 1995 Tue Aug 01 08:45:05 1995 SUCCESSFUL TREEFILE
Tue Aug 01 08:45:00 1995 Tue Aug 01 08:45:05 1995 SUCCESSFUL DIRCREATE:d1-01-01
:
:
:
Tue Aug 01 08:45:00 1995 Tue Aug 01 08:45:05 1995 SUCCESSFUL FILCREATE:rx.fil
:
:
:
Tue Aug 01 08:45:00 1995 Tue Aug 01 08:45:05 1995 SUCCESSFUL DCELOGOUT

```

Figure 4-8 Example of Logging File

The format of a single line of the Logging File is:

```

Process started date/time Process Ended date/time Status Process

```

Figure 4-9 Format of the Logging File

Table 4-7 Contents of the Logging File format

Item	Value	Contents
Process started date/time	-	UTC (Coordinated Universal Time) format
Process Ended date/time	-	UTC (Coordinated Universal Time) format
Status	SUCCESSFUL	Normally completed
	FAILED	Abnormally ended
Process	DCELOGIN	DCE login
	DCELOGOUT	DCE logout
	CONFIG	Configuration File access
	TREEFILE	Tree Generation File access
	DIRCREATE:xxx	Making a directory (xxx is a directory name)
	FILCREATE:xxx	Making a file (xxx is a file name)

The format of UTC (Coordinated Universal Time) is as follows:

```

aaa bbb cc dd:ee:ff gggg

```

Figure 4-10 UTC format

Table 4-8 Details of UTC format

Item	Meaning	Value Range	Notes
aaa	week date	Sun, Mon, Tue, Wed, Thu, Fri, Sat, ??? (unknown)	- Must be three characters. - Lowercase and uppercase can be mixed.
bbb	month	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	- Must be three characters. - Lowercase and uppercase can be mixed.
cc	day	1-31	
dd:ee:ff	hr:min:sec	00:00:00-23:59:59	24-hour system
gggg	uyear	1970-2069	-

[Rules]

- The “week date,” “month,” “day,” “hr:min:sec,” and “year” are separated by a space.
- Out of range data are assumed to be errors.
- When you input the date and time (such as in defining the Tree Generation File), you can set “???” if you are not sure of the day of the week.

4.3.2.5 Tree Generation File

This file defines the directory structure used for the testing. Before you run the execution module (dfaagtp), the Tree Generation File must exist. (Its path name and file name are specified with a keyword, TREE, of the Configuration File.) Thus when you use the test items of the standard DFA FVT, you need to copy the Tree Generation File from the master media. When vendors design their own test items, they must also make the Tree Generation File. An example of the Tree Generation File is shown in Figure 4-11.

```
1 d0101001  dir  ??? Aug 18 10:25:00 1995
    dceuser1=[*][rwx][cid] dcegroup1=[*][rwx][cid] dceuser0=[rwx][cid]
    other=[] mask=[rwx][cid]
2 b128     file  ??? Aug 19 15:30:45 1995
    type=binary len=128
    dceuser1=[*][rwx] dcegroup1=[*][rwx] dceuser0=[rwx] other=[] mask=[rwx]
2 d0102001  dir  ??? Aug 19 15:30:50 1995
    dceuser1=[*][rwx][cid] dcegroup1=[*][rwx][cid] other=[rwx] mask=[rwx]
3 t1024    file  ??? Aug 21 07:40:00 1995
    type=text len=1024
    dceuser1=[*][rwx] dcegroup1=[*][rwx] dceuser0=[rx] dcegroup0=[rx]
    other=[rx] mask=[rwx]
3 b0       file  ??? Aug 21 07:40:10 1995
    type=binary len=0
    dceuser1=[*][rwx] dcegroup1=[*][rwx] dceuser0=[c] dcegroup0=[rw]
    other=[rwx] mask=[rx]
```

Figure 4-11 Example of Tree Generation File

In the Tree Generation File, multiple lines make a single record, and a record defines an object. In the same record, the first line and later lines may not have the same format. The details of the formats are shown in Figure 4-12.

```
hierarchy number.  object name  object type  time stamp
keyword=value aaaa=AAAA bbbb=BBBB -----
             cccc=CCCC dddd=DDDD eeee=EEEE -----
             -----
```

Figure 4-12 Format of the Tree Generation File Record

A line in a record specifies the data for the required item, i.e., the hierarchy number, object name, object type, and time stamp. Other lines specify optional items (such as a file type, file size, and each entry of ACL) with the format of “keyword=value.”

Table 4-9 The Format of the First Line of the Tree Generation File

Item	Contents	Value Range
hierarchy number	The depth from the path specified by TOPDIR in the Configuration File (the top directory is 0; add 1 for each 1 level). required item.	numeric 1 - 512
object name	A directory or file name. Do not describe the path to the object. required item.	character string 1 - 255 bytes
object type	This identifies whether the object is a directory or a file. required item.	DIR or FILE
time stamp	The last updated time and date of the object. Optional item.	UTC format If omitted, the make (modified) time and date are set to the default.

[Rules]

- The hierarchy number must start at the first column.
- The value of the object is case- sensitive while the other values are not.
- Items are separated by a space.
- A line should not contain tabs.
- A line ends with a line feed.
- The maximum length of a line (including a line feed) is 2047 bytes.

Table 4-10 The Format of the Other Lines of the Tree Generation File

Keyword	Item	Contents	Value Range
LEN	file size	Number of bytes (does not include EOF if it is a text file).	Numeric 0 - 1048576 (1MB) (0 is assumed if omitted)
TYPE	file type	Identifies a binary file or a text file.	BINARY or TEXT (BINARY is assumed if omitted)
DCEUSER0- DCEUSER9	user or user_obj of ACL	Adds user/group entry of the ACL of the object and grants rights. The DCE users specified by DCEUSER0 -	[] - [rwxci] or *[...] Set the granted rights (r,w,x,c,i,d) in [].
DCEGROUP0- DCEGROUP9	group_obj	DCEUSER9 (in the Configuration File) and DCE groups specified by DCEGROUP0 - DCEGROUP9 are principals.	* before [] means an owner or owner group. See the rules and notes below for the conditions and default values
OTHER	other_obj of ACL	Grants ACL rights to the principals that are not entries of user_obj, group_obj, user, group of the ACL of the object.	Set the granted rights (r,w,x,c,i,d) in [].
MASK	mask_obj of ACL	Repeals the ACL rights of the object except for those granted to user_obj, other_obj.	Set the “not repealed” ACL rights (r,w,x,c,i,d) in [].

[Rules]

- A line starts with a space.
- A keyword is not case- sensitive.
- The value of the TYPE keyword is not case- sensitive.
- The keyword “TYPE” cannot be specified if the object type is “DIR.”
- A keyword and a value are separated by =.
- A line should not contain a tab.
- A line ends with a carriage return.
- You can set two or more keywords in a line if they are separated by a space.
- The maximum length of a line is 2047 bytes including the carriage return.
- A comment begins with REM (uppercase or lowercase) or #.

Table 4-11 The contents of the directory structure for the Gateway testing

Default Value	Contents	Name Status	Description
NWSERVER (no default)	NetWare Server	arbitrary	DFA Gateway must be installed in the NetWare Server where the test environment is generated.
SYS:\SYSTEM	Parent directory of the directory of the Control File	fixed	The volume and directory to store DFAGWTP, the directory of the Control File. This must exist in the NetWare Server.
DFAGWTP	Directory for the Control File	fixed	A parent directory of TEST (TEST is a directory to store the Control Files of DFAGWTP.NLM, DFAGWTP.CFG, DFAGWTP.FVT, and DFAGWTP.LOG, and the Test Item File)
DFAGWTP.NLM	Executable module	fixed	A executable file to execute the testing.
DFAGWTP.CFG	Configuration File	fixed	The Control File to specify the path names of the Control File, the NetWare user/group names, the volume for the testing, the path name of the directory structure.
DFAGWTP.FVT	Test Item Registration File	variable	The Control File for registering the Test Item File name.
DFAGWTP.LOG	Logging File	fixed	The Control Files for storing the results of the executable module.
TEST	Directory for the Test Item File	fixed	The directory for storing the Test Item File.
Gxxxxxxx.TXT	Test Item File	variable	The Control File that defines the contents of the Test Items.

4.3.3.2 NetWare Volume for the testing

Make the NetWare volume where the directory structure for the testing will be generated. If you run the standard DFA FVT test items, you need approximately 10 MB for the volume. For the standard DFA FVT, make the directory structure as shown in Figure 4-14. The volume name can be changed. (For the renaming rules, see Section 4.3.3.6 “Configuration File”).

The directory for the Control Files and the NetWare Volume must be on the same NetWare Server.

DFAGW\—— DFATP:\ (top of the Directory Structure for the testing)

Figure 4-14 NetWare Volume for the Gateway testing

Table 4-12 The contents of the NetWare Volume for the Gateway testing

Default	Contents	Name Status	Description
DFAGW	NetWare Server	arbitrary	The DFA Gateway must be installed in the NetWare Server where the test environment is generated.
DFATP	NetWare Volume	variable	The Gateway Volume where the Directory Structure for the testing is generated.

4.3.3.3 The mapping between the NetWare Volume and the DCE Path

Use DFA Administration utility to map the DCE path to the directory structure on the DCE side with the NetWare volume on the NetWare side. The text assumes that the Gateway name listed in Table 4-13 is mapped with the DCE path name. The names in the Table 4-13 are default values. See Section 4.3.3.6 “Configuration File” for information about renaming.

Table 4-13 Gateway Volume

Gateway Volume Name	DCE path name to the Directory Structure
DFATP	/.../sales.hitachi.co.jp/fs/dfatree

4.3.3.4 NetWare Users/Groups for the Testing

You need to register the NetWare Users and Groups used for the testing from the NetWare Client. You cannot do this from the NetWare Server. The text assumes that the users and groups in Table 4-14 are registered. Table 4-14 shows the default, which you use when you use the standard DFA FVT test items. If vendors make their own test items, they can use different names. For information about naming, see Section 3.6.4.3 “Configuration File”.

Table 4-14 NetWare Users and Groups for the testing

#	Type	Name	Description
1	NetWare User0	DFALOGIN	The Gateway user to run the Client testing.
2	NetWare User1	DFAOWNER	The Gateway user to be the owner of the directory structure (mainly the NetWare users corresponding to DCE user_obj).
3	NetWare User2	DFATRUST	Mainly the Gateway user to be the Trustee owner of files and directories.
4	NetWare Group0	DFALOGINGROUP	The Gateway group where belongs the Gateway user to run the Client testing.
5	NetWare Group1	DFAOWNERGROUP	The Gateway group where belongs the owner of the directory structure (mainly the Gateway group corresponding to DCE group_obj).
6	NetWare Group2	DFATRUSTGROUP	The Gateway Group to be the Trustee owner of files and directories.
7	OTHER NetWare Group OTHER	DFAOTHER	The Gateway Group mapped to DCE other_obj.
8	MASK NetWare Group MASK	DFAMASK	The Gateway Group mapped to DCE mask_obj.

4.3.3.5 The mapping between the NetWare Users/Groups and the DCE Principals

Use the DFA Administration utility to map the NetWare Users/Groups to the DCE principals (including other_obj and mask_obj). The mapped NetWare User is called Gateway user. The status that “a Gateway user belongs to a Gateway group” does not mean that a mapped NetWare user belongs to a NetWare group, but that a mapped DCE user belongs to a DCE group.

This mapping is done on the NetWare Server. The text assumes the mapping shown in Table 4-15. The following list is a default, and is used when the DFA FVT standard test items are executed. If vendors make their own test items, they can change the names of the NetWare users/groups and the DCE principals. (For information about naming, see Section 4.3.3.6 “Configuration File”).

Table 4-5 Mapping Between the NetWare Users/Groups and DCE Principals

#	Type	NetWare User/Group	DCE Principal Name	The DCE Group where DCE Principal Belongs
1	NetWare User0	DFALOGIN	dfauser0	dfagroup0
2	NetWare User1	DFAOWNER	dfauser1	dfagroup1
3	NetWare User2	DFATRUST	dfauser2	dfagroup2
4	NetWare Group0	DFALOGINGROUP	dfagroup0	-
5	NetWare Group1	DFAOWNERGROUP	dfagroup1	-
6	NetWare Group2	DFATRUSTGROUP	dfagroup2	-
7	NetWare Group OTHER	DFAOTHER	DFA_OTHER_GROUP (reserved name for DFA)	-
8	NetWare Group MASK	DFAMASK	DFA_MASK_OBJ (reserved name for DFA)	-

DFA_OTHER_GROUP and DFA_MASK_OBJ are not interpreted as the DCE principal names. DFA FVT reserves those names to map the other_obj entries and mask_obj entries of ACL to the NetWare Group.

4.3.3.6 Configuration File

The Configuration File should be named DFAGWTP.CFG and should be located in SYS:\SYSTEM\DFAGWTP. This is a text file, which you can change with a text editor.

```
NWUSER0=DFALOGIN
NWUSER1=DFAOWNER
NWUSER2=DFATRUST
NWGROUP0=DFALOGINGROUP
NWGROUP1=DFAOWNERGROUP
NWGROUP2=DFATRUSTGROUP
DCEGROUP0=dfagroup0
DCEGROUP1=dfagroup1
DCEGROUP2=dfagroup2
OTHEROBJ=DFAOTHER
MASKOBJ=DFAMASK
GWVOLUME=DFATP
REM TOPDIR=../../dfatp.hitachi.co.jp/fs/dfatree
TOPDIR=../../sales.hitachi.co.jp/fs/dfatree
FVTFILE=DFAGWTP.FVT
ERRORMODE=STOP
```

Figure 4-15 Example of a Configuration File

The format of each Configuration File is “keyword=value.” The list of the keywords is as follows:

Table 4-16 DFAGWTP.CFG Keywords

Keyword	Meaning	Default Value	Range	Notes
NWUSERn	Gateway User name n: 0 - 9	DFALOGIN (n=0) DFAOWNER (n=1) DFATRUST (n=2)	1-47	Users can be defined up to 10 users. The default values are only for n=0, 1, 2
NWGROUPl	Gateway Group name n: 0 - 9	DFALOGINGROUP (n=0) DFAOWNERGROUP (n=1) DFATRUSTGROUP (n=2)	1-47	Groups can be defined up to 10 groups. Specify the mapped DCE Group name by DCEGROUPn=xxx. The default values are only for n=0, 1, 2
DCEGROUPn	DCE Group name n: 0 - 9	dfagroup0 (n=0) dfagroup1 (n=1) dfagroup2 (n=2)	1-1024	Groups can be defined up to 10 groups. Specify the mapped Gateway Group name by NWGROUPl=xxx. The default values are only for n=0, 1, 2
OTHEROBJ	Gateway Group name mapped to other_obj	DFAOTHER	1-47	The corresponding DCE Group name is DFA_OTHER_GROUP only.
MASKOBJ	Gateway Group name mapped to mask_obj	DFAMASK	1-47	The corresponding DCE Group name is DFA_MASK_OBJ only.
GWVOLUME	Gateway Volume name	DFATP	2-15	-
TOPDIR	DFS mount point	/../sales.hitachi.co.jp/fs/dfatree	11-1022	Full path name only.
FVTFILE	Test Item Registration File name	DFAGWTP.FVT	1-12	Only the file name. Directory is not allowed.
ERRORMODE	Specifies whether continue or stop the further testing when in error.	STOP	4	Set CONT if continue, STOP if discontinue the further testing.

[Rules]

- A keyword is not case-sensitive.
- A line starts at the first column.
- A keyword and a value are separated by = and must not have spaces or tabs).
- The same keyword must appear only once.
- A default value is used if a keyword is not specified.
- When the Gateway user and Gateway group are registered, you can specify up to 10 users or groups (For example, by adding 0 to 9 to the end of the keyword. The number does not have to start from 0).
- In the case of the Gateway Group, The NetWare Group and the DCE Group must be properly mapped. See Table 4-17 for examples.
- The values specified for the NetWare information (NetWare user name, NetWare volume name, NetWare group name, and Test Item Registration File name) are not case-sensitive. The values for the DCE information (DCE group name and DFS mount point) are case-sensitive.
- Each line can hold only one definition. A line ends with a linefeed.
- A comment begins with REM. "REM" can be uppercase or lowercase.
- Space is needed after "REM". "REM" must start at the first column.
- The maximum length of a line is 1039 bytes, including the linefeed.

Table 4-17 Examples of Gateway Group mapping

NetWare Group name	DCE Group Name	Result
designated (n=0,1,2)	designated (n=0,1,2)	normal
not designated	not designated	normal (default values are assumed)
designated (n=2,4,6)	designated (n=2,4,6)	normal (the numbers do not have to be continuous)
designated (n=0)	not designated	normal (n=1,2 is assumed for NetWare, n=0,1,2 is for DCE)
not designated	designated (n=3)	error (both use n=0,1,2 as default values, but NetWare does not have n=3)

Note : n is for NWGROUPn and DCEGROUPn

For the keywords NWUSERn, NWGROUPn, DCEGROUPn, OTHEROBJ and MASKOBJ, see Table 4-16 and 4-17. These NetWare users and groups have to be registered with the NetWare Server in the test environment and they must be Gateway users and groups. The DCE users/groups corresponding to the Gateway users/groups must be matched with the same-numbered DCE users/groups specified in dfaagtp.cfg (the Configuration File in the Agent test environment).

For the keywords , GWVOLUME and TOPDIR, see also Table 4-14 and 4-15. This NetWare Volume must exist in the NetWare Server in the test environment, and it must be a Gateway Volume. Also the DCE path corresponding to the Gateway Volume must be matched with the Directory Structure for the testing designated by dfaagtp.cfg (= the Configuration File in the Agent test environment).

4.3.3.7 Test Item Registration File

DFAGWTP.FVT, the Test Item Registration File, is a text file, which you can edit with a text editor. Each line in the File consists of a Test Item File name of Gateway. The Test Item File in the standard DFA FVT has all the test items.

You cannot change the directory location of this File, (SYS:\SYSTEM\DFAGWTP), but you may change the file names. To change the file names, use FVTFILE, a keyword of the Configuration File.

The examples of the Test Item Registration File are as follows:

```

REM Mapping test (non-translated file name)
G0101001.TXT
G0101002.TXT
G0101003.TXT
REM Mapping test (translated file name)
G0102001.TXT
G0102002.TXT
G0102003.TXT
    
```

Figure 4-16 Example of Test Item Registration File

[Rules]

- A Test Item File name is not case-sensitive.
- A Test Item File name must start at the first column.
- A Test Item File name must have the format shown in Section 4.3.3.8.
- If the same Test Item File name is designated again, it is not considered an error, and the same testing is reiterated.
- Each line can hold only one definition. A line ends with a linefeed.
- A comment begins with REM. "REM" can be uppercase or lowercase.
- Space is needed after "REM". "REM" must start at the first column.
- The maximum length of a line is 1039 bytes including the linefeed.

4.3.3.8 Test Item File

Gxxxxxxx.TXT, the Test Item File, is a text file, which you can edit with a text editor. One Test Item File corresponds to one testing of Gateway. The testing for Gateway is limited to the Volume Mapping function.

The example of the Test Item File is shown in Figure 4-17.

```
REM File(a.dat) Mapping Test
MAP D010102\A.DAT
```

Figure 4-17 Example of Test Item File

The naming convention of the Test Item File is shown in Table 4-18.

Table 4-18 Test Item File Naming Convention

Name	Explanation	Value
G	G is for Gateway (fixed)	G
xx	ID number for the first level (numeric 01-99)	(example) 01
yy	ID number for the second level(numeric 01-99)	(example) 01
zzz	ID number for the third level(numeric 001-999)	(example) 001
aaa	ID for the format (fixed)	TXT

The File Name is not case-sensitive. The ID number does not have to start at 01. The contents of the Test Item File are shown Figure 4-18.

```
test type test target directory/file
```

Figure 4-18 Format of Test Item File

The test types usable for the Test Item Registration File are shown in Table 4-19.

Table 4.3.3-9 Test Types

Test type	Explanation
MAP	verifying the DFS Tree mapping

[Rules]

- A Test Type is not case-sensitive.
- A Test Type must start at the first column.
- A Test Type and a test-targetting directory/file must be separated with a single space.
- The test-targetting directory/file name must be the name of the NetWare's directory/file that is a target of the validation of the mapping function (do not set the name of the DFS side). The name must be a full path name excluding the server name and volume name. The maximum length is 255 bytes.
- A test targetting directory/file name is not case-sensitive.
- A test targetting directory/file must not contain a space.
- Each line can hold only one definition. A line ends with a linefeed.The test type (MAP) should appear only once.
- A comment begins with REM. "REM" can be uppercase or lowercase.
- Space is needed after "REM." "REM" must start at the first column.
- The maximum length of a line is 1039 bytes including the linefeed.

4.3.3.9 Logging File

The Logging File is a text file to record the execution status of DFAGWTP (the executable module). This File does not have to exist before the test execution: it is automatically generated under the Control File Directory (DFAGWTP) with the name of DFAGWTP.LOG.

The screen displays the environment status and the test results, and the Logging File keeps detailed information. If the testing environment or the test results were not as you expected, you can analyze the Logging File to find the cause.

Examples of the Logging File are shown in Figure 4-19.

```
Sun Sep 17 09:00:00 1995 START
Sun Sep 17 09:00:01 1995 Sun Sep 17 09:00:02 1995 USER_CHECK SUCCESSFUL
Sun Sep 17 09:00:02 1995 Sun Sep 17 09:00:03 1995 GROUP_CHECK SUCCESSFUL
Sun Sep 17 09:00:03 1995 Sun Sep 17 09:00:04 1995 VOLUME_CHECK SUCCESSFUL
Sun Sep 17 09:00:04 1995 Sun Sep 17 09:00:05 1995 G0101001.TXT SUCCESSFUL
Sun Sep 17 09:00:06 1995 Sun Sep 17 09:00:06 1995 G0101002.TXT FAILED
KDDS32104-E G0101002.TXT failed.
function : stat
return value : -1
errno : 1
NetWareErrno : 255
other information : Map Test
Sun Sep 17 09:00:08 1995 END
```

Figure 4-19 Examples of Logging File

The format of the Logging File is shown in Table 4-20.

Table 4-20 Formats of a line in the Logging File

ID#	Format
1	Test suite starting time and date (START)
2	Test item starting time and date (sp) test item ended time and date (sp) test ID (sp) status
3	Test suite ended time and date (END)

[Explanation]

- Format 1 shows the starting time and date of the test suite.
- Format 3 shows the ending time and date of the test suite.
- Format 2 shows the testing environment confirmation, or the starting and ending time and date of the test item, and the status.
- The format of the starting/ending time and date is UTC (Coordinated Universal Time).
- When FVT is executed to confirm the testing environment, a keyword is written to the Test Item ID. See Table 4-19 for the keyword.
- When FVT is executed to test the DFA functions, a Test Item File name is written to the Test ID.
- For the status, SUCCESSFUL is set when the processing (the confirmation of the testing environment and the test execution) is successfully completed, and FAILED when it ends abnormally.
- When the processing (the confirmation of the testing environment and the test execution) ends unsuccessfully, an error message and detailed information are written. The error information written to the Logging File is the same as information displayed to the screen.

Table 4-21 Keywords

Keyword	Explanation	Notes
USER_CHECK	Checks if Gateway User exists.	If the definition of the user (a check target) is repeated, only the first one is written onto the Logging File.
GROUP_CHECK	Checks if Gateway Group exists.	If the definition of the group (a check target) is repeated, only the first one is written onto the Logging File.
VOLUME_CHECK	Checks if Gateway Volume exists.	-

4.3.4 Environment Setting for Client

You do not have to use the command line utility of NetWare Client or the Client utility of DFA to set the Client testing environment.

4.3.4.1 Directories for Control File

Make the directory for storing the Control File. If you use the standard DFA FVT, the directory structure should be as shown in Figure 4-20. The file shown in [] is generated by the executable module. You can change a part of the Control File names: see Section 4.3.4.2 “Configuration File” for the naming.

You must register the directory, C:\DFACTLTP, with the environment variable PATH of MS-DOS, or with the NetWare Search Drive.

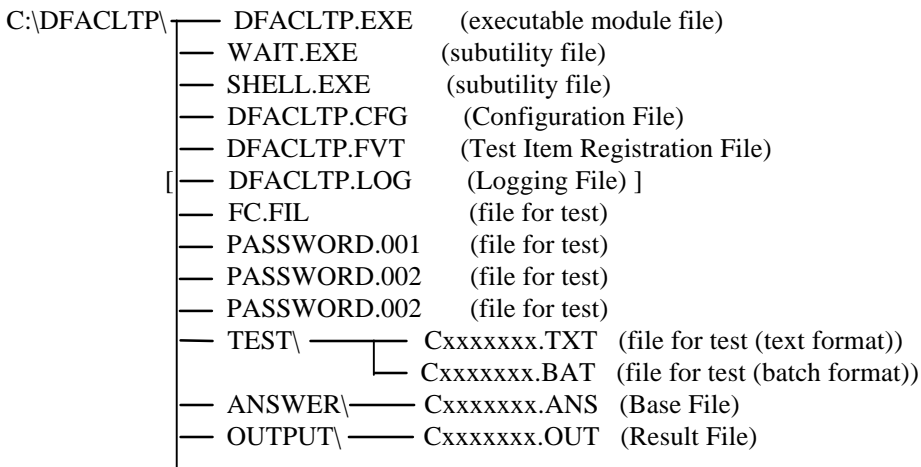


Figure 4-20 Files for Client Testing

You must make the directory structure before testing. The C drive is a local drive on the NetWare Client machine; You cannot change the directory name. For all the files except the Logging File and the Result File, you must copy from the standard DFA FVT or create with a text editor.

Table 4-22 Directories Used for Client Testing

Directory and File Name	Contents	Name Status	Description
C:\DFACLTP	Directory for a drive and a Control File	fixed	A directory exists on the NetWare Client in the test environment, and stores Control Files (DFACLTP.EXE, DFACLTP.CFG, DFACLTP.FVT and DFACLTP.LOG) and directories (TEST, ANSWER and OUTPUT).
DFACLTP.EXE	Executable module	fixed	An executable module that runs the testing.
WAIT.EXE	Subutility	fixed	Subutility for executing the test items of the standard DFA FVT.
SHELL.EXE	Subutility	fixed	
DFACLTP.CFG	Configuration File	fixed	A Control File that specifies Control Files, NetWare Server names, User names, password, Volume for testing, and options.
DFACLTP.FVT	Test Item Registration File	variable	A Control File for registering the Test Item File.
DFACLTP.LOG	Logging File	fixed	A Control File that stores the execution results.
FC.FIL	File for testing	fixed	Files to be used by the test items of the standard DFA FVT.
PASSWORD.001	File for testing	fixed	
PASSWORD.002	File for testing	fixed	
PASSWORD.003	File for testing	fixed	
TEST	Directory for Test Item Files	fixed	A directory for storing the Test Item File.
Cxxxxxxx.BAT	Test Item Files (batch)	variable	A Control File that specifies the contents of the Test Items. This is a batch file of MS-DOS (hereinafter this file is called "Test Item Batch File.")
Cxxxxxxx.TXT	Test Item Files (text format)	variable	A Control File that specifies the contents of the Test Items. This can issue various APIs with a pseudo-language. (hereinafter is called "Test Item Text File.")
ANSWER	Directory for Base File	fixed	A directory that stores the Base File.
Cxxxxxxx.ANS	Base File	variable	A Control File that has oracles (i.e., expected results). The format of this file depends on the format of the Test Item File (i.e., batch or text).
OUTPUT	Directory for Result File	fixed	A directory that stores the Results File.
Cxxxxxxx.OUT	Result File	variable	A Control File that stores the results of the Batch Test Items.

4.3.4.2 Configuration File

The Configuration File must exist at C:\DFACLTP with the fixed name, DFACLTP.CFG. This is a text file, which you can edit with a text editor.

The examples of the File are as follows:

```

FVTFILE=DFACLTP.FVT
NWUSER=DFALOGIN
NWPASSWORD=DFALOGIN
NWSERVER=DFAGW
GWVOLUME=DFATP
ERRORMODE=STOP

```

Figure 4-21 Example of Configuration File

The format of each line of the Configuration File is “keyword=value.” The keywords usable for the Configuration File are shown in Table 4-23.

Table 4-23 Configuration File Keywords

Keyword	Explanation	Directory/File Name	Range (Bytes)
FVTFILE	Test Item Registration File name	DFACLTP.FVT	1-12
NWUSER	NetWare User name	DFALOGIN	1-47
NWPASSWORD	NetWare password	DFALOGIN	1-128
NWSERVER	NetWare Server name	default NetWare Server	1-47
GWVOLUME	Gateway Volume name	DFATP	2-15
ERRORMODE	Whether to display the continue/stop message in case of error STOP - display the message CONT - continue testing without displaying the message others - error	STOP	4

[Rules]

- A keyword is not case-sensitive.
- A keyword must start at the first column.
- A keyword and a value is separated by =. There should not be spaces or tabs.
- The same keyword cannot be used more than once.
- A default value is assumed for an omitted keyword.
- A value is not case-sensitive.
- A comment begins with “REM.”
- REM can be uppercase or lowercase.
- REM must start at the first column.
- REM must be followed by a 1-byte space.
- Each line can hold only one definition.
- A line ends with a line feed.
- The maximum length of a line is 149 bytes, including a line feed. It is an error if the length exceeds 149.

4.3.4.3 Test Item Registration File

The Test Item Registration File (DFACLTP.FVT) is a text file, which you can edit with a text editor. Each line of the File contains the Test Item File name of the Client testing. The Test Item Registration File supplied in the standard DFA FVT contains all the test items.

The location of the File is fixed (C:\DFACLTP), but you may change the File name. You can change the name using the keyword FVTFILE of the Configuration File.

Examples of the Test Item Registration File are as follows:

```
REM *** BATCH TYPE ***
C0101001.BAT
C0101002.BAT
C0101003.BAT
C0101004.BAT
REM *** TEXT TYPE ***
C0102001.TXT
C0103001.TXT
```

Figure 4-22 Example of Test Item Registration File

[Rules]

- A keyword is not case-sensitive.
- A keyword must start at the first column.
- The format of a keyword must be as shown in the next section.
- It is not an error even if the same Test Item File name appears twice or more:the same test repeats (the second test may not successfully end).
- A comment begins with "REM."
- REM can be uppercase or lowercase.
- REM must start at the first column.
- REM must be followed by a 1-byte space.
- Each line can hold only one definition.
- A line ends with a line feed.
- The maximum length of a line is 149 bytes, including a line feed. It is an error if the length exceeds 149.

4.3.4.4 Test Item File

The Test Item File(Cxxxxxxx.TXT and Cxxxxxxx.BAT)are text files, which you can edit with a text editor. Each File makes a single test item for Client. You can select particular test items by setting the names of the Test Item File to the Test Item Registration File mentioned in the previous section.

The Test Item File has two types: Batch type, which can directly execute the command line Utility of DFA, and Text type, which uses MS-DOS APIs (C library functions) via pseudo-programming language.

The examples of the Test Item File are shown below:

```
copy a b > C:\DFACLTP\OUTPUT\Cxxxxxxx.OUT
```

Figure 4-23 Example of Batch Type

```
OPEN FH1 aaa RW T C
READ FH1
REM WRITE FH1
CLOSE FH1
```

Figure 4-24 Example of Text Type

The location of the File is fixed (C:\DFACLTP\TEST), but the file names are variable. You can change the file names by registering the names with the Test Item Registration File.

The file names of the Test Item File must have a format of "Cxyyzzz.aaa" with the following rules:

Table 4-24 Rule of Test Item File Naming

Item	Explanation	Value
C	Must be C (which is for Client)	C
xx	first level ID (01 - 99)	(example) 01
yy	second level ID (01 - 99)	(example) 01
zzz	third level ID (001 - 999)	(example) 001
aaa	indicator of Batch or Text	BAT or TXT

4.3.4.4.1 Batch Type Test Item File (Cxxxxxxx.BAT)

The format of the Batch Type Test Item File is shown in Figure 4-25. The description format of this file complies with the MS-DOS batch file format.

```
command name 1 [parameter 1] > C:\DFACLTP\OUTPUT\Cxxxxxxx.OUT
command name 2 [parameter 2] >> C:\DFACLTP\OUTPUT\Cxxxxxxx.OUT
:
:
```

Figure 4-25 Format of the Batch Type Test Item File

The name of the Result File, the destination of the redirection > or >>, must be a full path. The name must match the Test Item File (except the file is OUT). Use >> to redirect the results of multiple commands and concatenate the results.

MS-DOS allows the redirection of the standard output (stdout), but not the standard error output (stderr). Use the following shell utility to expand the scope of such redirection. This utility executes the MS-DOS commands (including MS-DOS batch file and DFA command line utility) designated by the parameters. Then it redirects the messages that were output to stdout and stderr to the standard output of this Utility.

```
shell "command operand ---" > redirected file name
shell "command operand ---" >> redirected file name
```

Figure 4-26 Format of Utility Shell

If, in the Batch Type Test Item File, you want to use the MS-DOS commands to output messages to the standard error output, use this utility. The DFA command line utility does not use the standard error output and it cannot check if the MS-DOS commands or NetWare command line utility use the standard error output. We recommend you always use this utility.

The explanation of the Result File are shown in the next section.

4.3.4.4.2 Text Type Test Item File (Cxxxxxxx.TXT)

The format of the Text Type Test Item File is shown in Figure 4-27. This format uses a pseudo-programming language. You can use MS-DOS APIs (C library functions) via the language.

```
API name 1 [parameter 1]
API name 2 [parameter 2]
:
:
```

Figure 4-27 Format of Batch Type Test Item

The APIs that can be used in the Text-Type Test Item File are as follows:

Table 4-25 Functions Usable in the Text Type File

API Name	Library Function	Description
open	_open	Opens a file and returns a file handle.
close	_close	Closes a file and releases a file handle.
read	_read	Reads a data item from the file indicated by the file handle.
write	_write	Writes a data item to the file indicated by the file handle.
unlink	_unlink	Deletes a file.
mkdir	_mkdir	Generates a directory.
rmdir	_rmdir	Deletes a directory.
chdir	_chdir	Changes the current directory.
rename	rename	Renemes a directory or file name.
stat	_stat	Gets file information.
utime	_utime	Sets the modified time and date of a file.
fopen	fopen	Opens a file and returns a stream.
fclose	fclose	Closes a file and releases a stream.
fgetc	fgetc	Reads a character from a stream.
fgets	fgets	Reads a character string from a stream.
fread	fread	Reads a data item from a stream.
fputc	fputc	Writes a character to a stream.
fputs	fputs	Writes a character string to a stream.
fwrite	fwrite	Writes a data item to a stream.
map	-	Maps onto a network drive.
disp	-	Outputs a message.
rem	-	Comments.

(i) open

“Open” opens a designated file with a designated mode and gets a file handle. The actual processing steps in the “open” are “handle = _open(fileName, mode, attribute).” The attribute of “open” is always set to “Read+Write.”

OPEN file handle file name access mode file mode create mode
--

Figure 4-28 Format of open

Table 4-26 Parameters for open

Parameter	Explanation
file handle	FH#(#:1-4)
file name	full path name of MS-DOS (1 - 79 bytes)
access mode	RO WO RW(RO:ReadOnly, WO:WriteOnly, RW:ReadWrite)
file mode	B T(B:Binary, T:Text)
create mode	C T CE N(C:Create, T:Truncate, CE:CreateExclusive, N:No)

(ii) close

“Close” closes a designated file designated by a file handler and releases the file handler. The actual processing step inside the “close” is _close(handle).

CLOSE file handle

Figure 4-29 Format of close

Table 4-27 Parameters of close

Parameter	Explanation
file handle	FH#(#:1-4)

(iii) read

“Read” inputs 16 bytes of data from the file designated by the file handler. The actual processing step inside the “read” is `_read(handle, buffer, 16)`. You cannot reference the input data.

READ file handle

Figure 4-30 Format of read

Table 4-28 Parameters of read

Parameter	Explanation
file handle	FH#(#:1-4)

(iv) write

“Write” outputs 16 bytes of data to the file designated by the file handle. The actual processing step inside the “write” is `_write(handle, buffer, 16)`. The buffer is always set to “0123456789ABCDEF.”

write file handle

Figure 4-31 Format of write

Table 4-29 Parameters for write

Parameter	Explanation
file handle	FH#(#:1-4)

(v) unlink

“Unlink” deletes the designated file. The actual processing step inside the “unlink” is `_unlink(fileName)`.

UNLINK file name

Figure 4-32 Format of unlink

Table 4-30 Parameters for unlink

Parameter	Explanation
file name	full path file name in MS-DOS (1 - 79 bytes)

(vi) mkdir

“Mkdir” makes a designated directory. The actual processing step inside the “mkdir” is `_mkdir(directoryName)`.

MKDIR directory name

Figure 4-33 Format of mkdir

Table 4-31 Parameters for mkdir

Parameter	Explanation
directory name	full path directory name in MS-DOS (1 - 79 bytes)

(vii) rmdir

“Rmdir” deletes the designated directory. The actual processing step inside the “rmdir” is `_rmdir(directoryName)`.

```
RMDIR directory name
```

Figure 4-34 Format of rmdir

Table 4-32 Parameters for rmdir

Parameter	Explanation
directory name	full path directory name in MS-DOS (1 - 79 bytes)

(viii) chdir

“Chdir” deletes the designated directory. The actual processing step inside the “chdir” is `_chdir(directoryName)`.

```
CHDIR directory name
```

Figure 4-35 Format of chdir

Table 4-33 Parameters for chdir

Parameter	Explanation
directory name	full path directory name in MS-DOS (1 - 79 bytes)

(ix) rename

“Rename” changes the directory or file name into the designated one. The actual processing step inside the “rename” is `rename(oldName, newName)`.

```
RENAME old directory/file name new directory/file name
```

Figure 4-36 Format of rename

Table 4-34 Parameters for rename

Parameter	Explanation
old directory/file name	directory or file name in MS-DOS (1 - 12 bytes)
new directory/file name	directory or file name in MS-DOS (1 - 12 bytes)

[Notes]

You cannot enter a full path name for the old directory or file name and new directory or file name. Before you rename a directory or file, you must move the current directory to the directory where the old directory or file exists.

(x) stat

“Stat” gets the file information of the designated file. The actual processing step inside “stat” is `_stat(fileName, &buffer)`. You cannot reference this information.

```
STAT file name
```

Figure 4-37 Format of stat

Table 4-35 Parameters for stat

Parameter	Explanation
file name	full path file name in MS-DOS (1 - 79 bytes)

(xi) utime

“Utime” sets the designated file the modified time and date. The actual processing step inside “utime” is `_utime(fileName, nowTime)`. Since “nowTime” is always set to NULL, the time and date you can set is limited to NetWare’s current time and date.

UTIME file name

Figure 4-38 Format of utime

Table 4-36 Parameters for utime

Parameter	Explanation
file name	full path file name in MS-DOS (1 - 79 bytes)

(xii) fopen

“Fopen” opens the designated file with the designated mode and gets the pointer to a stream. The actual processing step inside “fopen” is `stream = fopen(fileName, mode)`.

FOPEN file pointer file name access mode conversion mode

Figure 4-39 Format of fopen

Table 4-37 Parameters for fopen

Parameter	Explanation
file pointer	FP#(#:1-4)
file name	full path file name of MS-DOS (1 - 79 bytes)
access mode	R W A R+ W+ A+
conversion mode	B T(B:Binary, T:Text)

(xiii) fclose

“Fclose” closes the file designated by the (pointer to) stream and releases the stream. The actual processing inside “fclose” is `fclose(stream)`.

FCLOSE file pointer

Figure 4-40 Format of fclose

Table 4-38 Parameters for fclose

Parameter	Explanation
file pointer	FP#(#:1-4)

(xiv) fgetc

“Fgetc” reads a single byte from the file designated by the (pointer to the) stream. The actual processing step inside “fgetc” is `fgetc(stream)`.

FGETC file pointer

Figure 4-41 Format of fgetc

Table 4-39 Parameters for fgetc

Parameter	Explanation
file pointer	FP#(#:1-4)

(xv) fgetc

“Fgetc” reads 16 bytes of data from the file designated by the (pointer to the) stream. The actual processing step inside “fgetc” is fgetc(stream).

FGETC file pointer

Figure 4-42 Format of fgetc

Table 4-40 Parameters for fgetc

Parameter	Explanation
file pointer	FP#(#:1-4)

(xvi) fread

“Fread” inputs 16 bytes of data from the file designated by the (pointer to the) stream. The actual processing step inside “fread” is fread(buffer, 1, 16, stream).

FREAD file pointer

Figure 4-43 Format of fread

Table 4-41 Parameters for fread

Parameter	Explanation
file pointer	FP#(#:1-4)

(xvii) fputc

“Fputc” writes a single byte data onto the file designate by the (pointer to the) stream. The actual processing step inside “fputc” is fputc(character, stream). “Character” is always set to “R.”

FPUTC file pointer

Figure 4-44 Format of fputc

Table 4-42 Parameters for FPUTC

Parameter	Explanation
file pointer	FP#(#:1-4)

(xix) fputs

“Fputs” writes 16 bytes of data to the file designated by the (pointer to the) stream. The actual processing step inside “fputs” is fputs(buffer, stream). “Buffer” is always set to “0123456789ABCDEF.”

FPUTS file pointer

Figure 4-45 Format of fputs

Table 4-43 Parameters for fputs

Parameter	Explanation
file pointer	FP#(#:1-4)

(xix) fwrite

“Fwrite” outputs 16 bytes of data onto the file designate by the (pointer to the) stream. The actual processing step inside “fwrite” is fwrite(buffer, 1, 16, stream). “Buffer” is always set to “0123456789ABCDEF.”

FWRITE file pointer

Figure 4-46 Format of fwrite

Table 4-44 Parameters for fwrite

Parameter	Explanation
file pointer	FP#(#:1-4)

(xx) map

“Map” maps the current directory of the current drive onto V Drive as root, then makes V Drive a current drive, and the root directory of V Drive a current directory.

MAP

Figure 4-47 Format of map

(xxi) disp

“Disp” displays a message on the screen (not to the logging file). This function is not validated.

DISP outputting message

Figure 4-48 Format of disp

Table 4-45 Parameters for disp

Parameter	Explanation
outputting message	0 - 79 (bytes)

(xxii) rem

This is for comments. This is not a testing target.

REM comments

Figure 4-49 Format of rem

Table 4-46 Parameters for rem

Parameter	Explanation
comments	0 - 145 (bytes)

[Rules for Text-Type File]

- An API name contains only letters and is not case-sensitive.
- An API name must start at the first column.
- An API name and a parameter are separated by a one-byte space.
- A parameter, except for the DISP message text, is not case-sensitive.
- The file name set as a parameter should not contain a space.
- A comment begins with “REM.”
- REM can be uppercase or lowercase.
- REM must start from the first column.
- REM must be followed by a 1-byte space.
- Each line can hold only one definition.
- A line ends with a line feed.
- The maximum length of a line is 149 bytes including a line feed. It is an error if the length exceeds 149.

4.3.4.5 Result File

The Result File, Cxxxxxxx.OUT, is a text file generated when the screen display of the executed results (of the Batch-Type Test Item File) is redirected. This file does not have to exist before you run the executable module (DFACLTP.EXE), but is automatically made under C:\DFACLTP\OUTPUT (the fixed directory for the Result File) with the name of Cxxxxxxx.OUT. Note that xxxxxxx in Cxxxxxxx.OUT is same as that of the corresponding Cxxxxxxx.BAT (a Test Item File name); only the file extension varies. See Table 4-24 for the details of xxxxxxx.

```
1 file(s) copied
```

Figure 4-50 Example of Result File

4.3.4.6 Base File

The Base File, Cxxxxxxx.ANS, is a text file, that you can edit with a text editor. A single Base File contains the oracles (the expected results of the of testing) of a single test item for the Client testing. Passed/Failed of the testing is judged by comparing the actual result with the expected result in this file.

The location of the Base File must always be C:\DFACLTP\ANSWER, but the File name is determined by the Test Item File. For example, xxxxxxx of Cxxxxxxx.ANS (the Base File name) is same as that of Cxxxxxxx.BAT or Cxxxxxxx.TXT. See Table 4-24 for the details of xxxxxxx.

The format of the Base File depends on whether the Test Item File is Batch-Type or Text-Type.

4.3.4.6.1 Base File for Batch-Type

The Base File for the Batch-Type contains the expected result and its location. The location is represented by the number of lines from the beginning of the Result File and the number of words from the beginning of the line. The examples of the Batch-Type Base File, Test Item File, and Result File are shown in Figure 4-51. The example assumes 05 for the first level ID, 01 for the second level ID, and 024 for the third level ID.

```
dir u:\sample > c:\dfactp\output\c0501024.out
```

Figure 4-51 Batch-Type Test Item File C0501024.BAT

```
Volume in drive U is DFATP
Directory of U:\SAMPLE

SPEC          0 08-25-95 12:56p
OPTION <DIR>   07-27-95 3:57p
  2 file(s)    0 bytes
              790757376 bytes free
```

Figure 4-52 Batch-Type Result File C0501024.OUT

```

3 3 F:\SAMPLE
5 1 SPEC
5 2 0
6 1 OPTION
6 2 <DIR>
7 1 2
7 3 1024

```

Figure 4-53 Batch-Type Base File C0501024.ANS

In Figure 4-52 and 4-53, the Test Item File C0501024.BAT was executed to get the Result File C0501024.OUT. Then the Base File C0501024.ANS and the Result File C0501024.OUT are compared to determine passed/failed. If all the results in the testing match all the expected values, the test item is assumed to be a successful. See Table 4-43 for the details:

Table 4-43 Judging Passed/Failed

Word location	Expected Value (Base File)	Result (Result File)	Judgment
3rd line, 3rd word	F:\SAMPLE	F:\SAMPLE	Successful
5th line, 1st word	SPEC	SPEC	Successful
5th line, 2nd word	0	0	Successful
6th line, 1st word	OPTION	OPTION	Successful
6th line, 2nd word	<DIR>	<DIR>	Successful
7th line, 1st word	2	2	Successful
7th line, 3rd word	1024	0	Unsuccessful

The format of the Batch-Type Base File is as follows:

```

line number string number character number

```

Figure 4-54 Format of a Line of Batch-Type Base File

Table 4-44 Contents of Batch-Type Base File

Item	Explanation
Line number	the line number in the Result File (1 - 999)
String number	the location of the character string (or word) from the left (1 - 99)
Character string	the character string (or word) to be compared with (1 - 80 bytes)

4.3.4.6.2 Text-Type Base File

The Text-Type Base File defines the error numbers of APIs described in the Test Item File. An example of the Text-Type Base File and the relation between the Test Item File and the Base File are shown as in Figure 4-55 and 4-56. In the examples, the first level ID is set to 08, second level ID 02, and third level ID 017.

```

open fh1 u:\tree\lock.fil ro b c
read fh1
open fh2 u:\tree\lock.fil rw b ce
close fh1
open fh2 u:\tree\lock.fil rw b ce
write fh2
close fh2

```

Figure 4-55 Text-Type Test Item File C0802017.TXT

```

0
0
13
0
13
0
0

```

Figure 4-56 Text-Type Base File C0802017.ANS

In Figure 4-55, a line of the Test Item File (C0802017.TXT) is read and executed to get an error number. Then a line of the Base File (C0501024.ANS) is read to compare with the error number. The confirming steps are, as shown Table 4-45, to compare the result with the expected value, then to assume as normal if they match, an error if they do not. The lines after the error, in the Test Item File and Base File are not read; they are ignored. The test Item is marked successful if there are not errors in a line.

Table 4-45 Example of Passed/Failed Judgment

Line	Expected Value (Base File)	Result (Error Number)	Judgment
1	0	0	Successful
2	0	0	Successful
3	13	13	Successful
4	0	0	Successful
5	13	0	Unsuccessful
6	0	-	Ignored
7	0	-	Ignored

The format of the Text-Type Base File is shown in Figure 4-57.

```

error number

```

Figure 4-57 Format of a Line in the Text-Type Base File

Table 4-46 Contents of the Text-Type Base File

Item	Explanation
error number	Decimal number (range is -1, 0, 1 - 255) See Table 4-47 for the details.

Table 4-47 Value of the Error Numbers

API Name	Judgment of the API result	Expected Error Number
open, close, read, write, unlink, mkdir, rmdir, chdir, rename, stat, utime	Successful	0
	Unsuccessful	Value set in errno (a global variable) of MS-VC++.
fopen, fclose, fgetc, fgets, fread, fputc, fputs, fwrite, map	Successful	0
	Unsuccessful	-1
rem, disp	N/A	Not specified

[Rules for Text-Type File]

- Items in the Batch-Type are separated by a one-byte space.
- A line number (Batch-Type) and error number (Text-Type) must start at the first column.
- A comment begins with "REM."
- REM can be uppercase or lowercase.
- REM must start at the first column.
- REM must be followed by a 1-byte space.
- Each line can hold only one definition.
- A line ends with a line feed.
- The maximum length of a line is 149 bytes including a line feed. It is an error if the length exceeds 149.
- In the Text-Type, all but an access error is assumed as normal (e.g., the end of file).

4.3.4.7 Logging File

The Logging File is a text file that records the execution status of the executable module (DFACTLTP.EXE). This file does not have to be generated before you run the execution of the executable module; it is automatically generated under the Control File or directory (C:\DFACTLTP) with the name of DFACTLTP.LOG.

The summarized result of the testing is displayed on the screen while the detailed information is recorded onto the Logging File. If the testing result is not as you expected, analyze the Logging File with a text editor.

```

Sun Sep 17 09:00:00 1995 START
Sun Sep 17 09:01:00 1995 Sun Sep 17 09:02:00 1995 C0101001.BAT SUCCESSFUL
Sun Sep 17 09:03:00 1995 Sun Sep 17 09:04:00 1995 C0101001.TXT FAILED
KDDS33106-E Syntax error in Base file.
    line=8
Sun Sep 17 09:05:00 1995 END
    
```

Figure 4-58 Example of the Contents of the Logging File

The format of the Logging File is as follows:

Table 4-48 Format of a line of the Logging File

Format #	Contents
1	Test suite started time and date START
2	Test started time and date test ended time and date Test Item File name status [detailed information]
3	Test suite ended time and date END

[Explanation]

- Format 1 shows the starting time and date of the test suite.
- Format 3 shows the ending time and date of the test suite.
- Format 2 shows the starting/ending time/date, and status of a Test Item. The information of Format 2 is not shown if there is an error other than an unsuccessful test result.
- The format of the starting and ended time/date is UTC (Coodinated Universal Time).
- SUCCESSFUL is set if the process (environment confirmation or test execution) is normally completed, FAILED is set if it ends abnormally.
- If the process (including the environment confirmation and test execution) ends abnormally, an error message and the detailed information are output to the Logging File. The error information written to the Logging File is identical to the error messages displayed on the screen.

Chapter 5. Test Coverage

See Section 1.2 “DFA FVT Purposes” and Chapter 3. “Targeted Functions”

Chapter 6. Hardware and Software Prerequisites

6.1 Prerequisites for Agent

The prerequisite hardware and software of the DCE Client machine where the executable module dfaagtp is generated and executed is as shown is Table 6-1.

Table 6-1 Prerequisite Hardware and Software for the dfaagtp Generation and Execution

Hardware	Software
RS6000	-AIX bos.obj AIX Basic Operating System (BOS) ver. 3.2.5 bosnet.tcpip.obj AIX TCP/IP option of AIX BOS Network bos.data AIX BOS Data File/6000 bssiEn_US.info AIX BOS Information File -AIX-DCE (version 1.2.1) dcebase.base.obj AIX DCE Basic Service/6000 bosadt.bosadt.obj AIX BOS Application Developer’s Toolkit bosadt.lib.ob AIX BOS Application Developer’s Libraries and Include Files xlccmp.obj AIX XL C Compiler/6000 dcsec.obj AIX DCE Security Server/6000 dcecds.obj AIX DCE Cell Directory Server

6.2 Prerequisites for Gateway

The prerequisite hardware and software of the NetWare Client machine where the executable module dfagwtp.nlm is generated is as shown is Table 6-2.

Table 6-2 Prerequisite hardware and software for Gateway

Hardware	Software
FLORA 3100	MS-DOS 5.0/V (or above)
FLORA 3010	NetWare 3.12J
FLORA 1010	NOVELL SDK Vol.4 WATCOM C/C++ 10.0
PC/AT compatibles	MS-DOS 5.0/V (or, above) or PC-DOS 5.0/v (or, above) NetWare 3.12 NOVELL SDK Vol.4 WATCOM C/C++ 10.0

The prerequisite hardware and software of the NetWare Server machine (where the executable module dfagwtp.nlm is executed) is as shown in Table 6-3.

Table 6-3 Prerequisite hardware and software for the dfagwtp.nlm execution

Hardware	Software
PC/AT compatibles	MS-DOS 5.0/V (or, above) or PC-DOS 5.0/V (or, above) NetWare 3.12

6.3 Prerequisites for the NetWare Client

The prerequisite hardware and software of the NetWare Client machine where the executable module dfactlp.exe is generated and executed is as shown in Table 6-4.

Table 6-4 Prerequisite hardware and software for the NetWare Client

Hardware	Software
PC/AT compatibles	MS-DOS 5.0/V (or, above) or PC-DOS 5.0/V (or, above) NetWare 3.12 NOVELL SDK Vol.4 MS-Windows 3.1 MS-VC++ 1.0 (or, above)

Chapter 7. Test Items

7.1 Test Suite identifier

See Chapter 9. "Test Item Listing."

7.2 Prerequisite of hardware and software

See "Chapter 6. Hardware and Software Prerequisites."

7.3 How to Execute the Test Suite

Perform the steps in Table 7-1 to run the executable modules of DFA FVT:

Table 7-1 execution steps

#	Executable module	Execution location	Function
1	???????	DCE Server/Client	Starts DCE.
2	dfaagtp	DCE Client	Starts the Agent process of DFA FVT.
3	dfaagt	DCE Client	Starts DFA Agent.
4	???????	NetWare Server/Client	Starts NetWare.
5	dfa.nlm	NetWare Server	Starts DFA Gateway.
6	dfagwtp.nlm	NetWare Server	Starts the Gateway process of DFA FVT.
7	dfacltp.exe	NetWare Client	Starts the Client process of DFA FVT.
8	-	Each machine	Stops DFA, NetWare and DCE.

7.3.1 Execution of dfaagtp

Perform the steps in Table 7-2 to run dfaagtp on the DCE Client machine:

Table 7-2 How to Execute dfaagtp

Step	Operation
1	Complete “The procedure in section 4.2.1 dfaagtp generation.”
2	Complete “The procedure in section 4.3.2 Environment setting for Agent.”
3	Start a process in UNIX as superuser.
4	Move the current directory to the directory where dfaagtp exists.
5	Execute dfaagtp.

Table 7-3 shows of the executable module (dfaagtp). See Chapter 8 for the details of the messages.

Table 7-3 Processing Steps of dfaagtp

Step	Processing Steps
1	Enters DCE using the name of the login user defined in the Configuration File.
2	Checks that the DCE user and group specified in the Configuration File actually exist.
3	Makes the Directory Structure for the testing. location: From the top directory designated in the Configuration File. contents: The contents of the Tree Generation File specified in the Configuration File.
4	Sets owners and ACL information (user_obj, group_obj, user, group, other_obj, mask_obj) for the directory structure.
5	Exits DCE.

7.3.2 Execution of dfagwtp.nlm

Perform the steps in Table 7-4 to run dfagwtp.nlm on the NetWare Server machine:

Table 7-4 How to execute dfagwtp.nlm

Step	Operation
1	Complete “The procedure in section 4.2.2 dfagwtp.nlm generation.”
2	Complete “The procedure in section 4.3.3 Environment setting for Gateway.”
3	Execute “load sys:\system\dfagwtp.nlm.”

[notes]

- (1) If you execute the Agent Test Suite when Gateway is already running, wait for the directory to synchronize or restart Gateway before starting the Test Suite.
- (2) If the Client Test Suite was already verified, start the Agent Test Suite before you run the Gateway Test Suite.

Table 7-5 shows processing steps of the executable module (dfagwtp.nlm). See Chapter 8 for the details of the messages.

Table 7-5 Processing Steps of dfagwtp.nlm

Step	Processing Step
1	Checks that the Gateway user and groups specified in the Configuration File actually exist. The group includes DFA_OTHER_GROUP and DFA_MASK_OBJ. The names corresponding to DCE group are also checked.
2	Checks that the Gateway Volume specified in the Configuration File corresponds to the DCE path defined as the top directory.
3	Verifies the Test Items registered with the Test Item Registration File specified in the Configuration File.

7.3.3 Execution of dfactlp.exe

Perform the steps in Table 7-6 to run dfactlp.exe in the NetWare Client machine:

Table 7-6 How to execute dfactlp.exe

step	Operation
1	Complete "The procedure in section 4.2.3 Execution of dfactlp.exe."
2	Complete "The procedure in section 4.2.4 Generation of wait.exe/shell.exe."
3	Complete "The procedure in section 4.3.4 Setting environment of Client."
4	Move the current directory to c:\dfactlp.
5	Execute dfactlp.exe.

[notes]

If you repeat the testing, you must remove the Result File or move it to a different directory, before restarting the testing.

Table 7-7 shows processing steps of the executable module (dfactlp.exe). See Chapter 8 for the details of the messages.

Table 7-7 Processing Steps of dfactlp.exe

Step	Processing Step
1	Enters DCE by the name of the Gateway User specified in the Configuration File.
2	Maps Drive T onto SYS:\PUBLIC of the NetWare Server specified in the Configuration File
3	Maps Drive U onto the root directory of the Gateway Volume specified in the Configuration File.
4	Verifies the Test Items registered with Test Item Registration File specified in the Configuration File.
5	Exit DCE and NetWare.

7.4 Standard Testing Environment

7.4.1 Minimal machine configuration

You need the three machines shown in Table 7-8 to run the DFA Test Suite:

Table 7-8 Required machines

Hardware	Software Needed
One UNIX machine	DFS Server, CDS Server, DTS Server, Security Server, DCE Client (CDS Client, Security Client), and DFA Agent
One NetWare Server	NetWare Server, NetWare Client Command, DFA Gateway, Administration Utility, and DFA Client Command
One NetWare Client	NetWare Client (DOS Requester)

Figure 7-1 shows minimal configuration of the testing system:

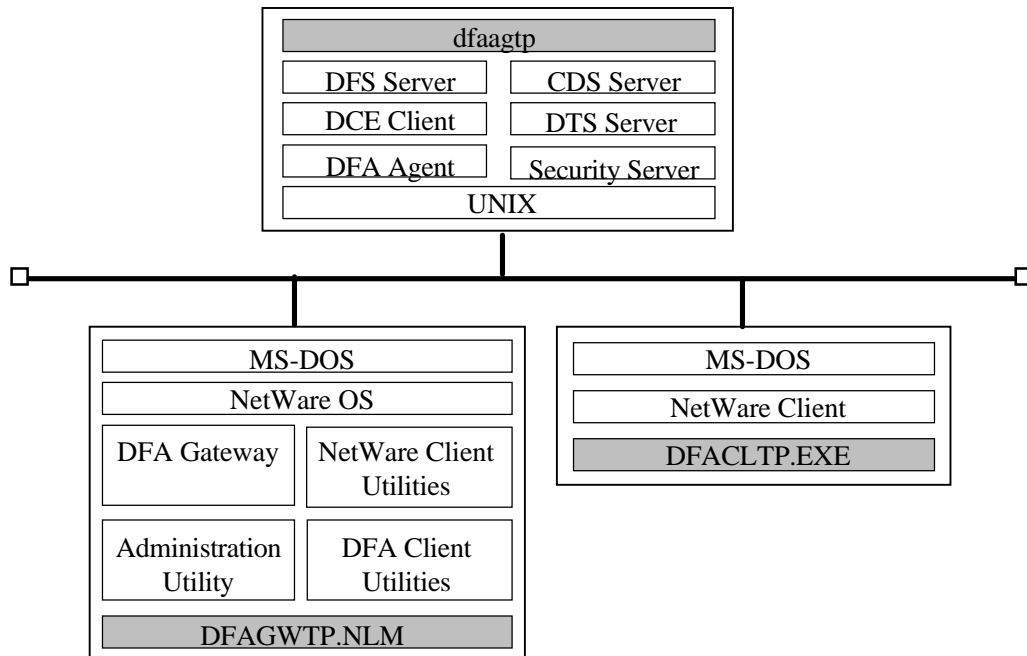


Figure 7-1 Minimal System Configuration

7.4.2 Default Control File

(a) Configuration File of Agent

Figure 7-2 shows default Configuration File for Agent:

```
TOPDIR=../../sales.hitachi.co.jp/fs/dfatree
LOGFILE=../../sales.hitachi.co.jp/fs/dfaagtp/dfaagtp.log
TREE=../../sales.hitachi.co.jp/fs/dfaagtp/dfatree
LOGINUSER=dfalogin
LOGINPASSWORD=dfalogin
DCEUSER0=dfauser0
DCEUSER1=dfauser1
DCEUSER2=dfauser2
DCEGROUP0=dfagroup0
DCEGROUP1=dfagroup1
DCEGROUP2=dfagroup2
DCEGROUP3=dfagroup3
```

Figure 7-2 Agent Default Configuration File

(b) Configuration File of Gateway

Figure 7-3 default Configuration File for Gateway:

```
NWUSER0=DFALOGIN
NWUSER1=DFAOWNER
NWUSER2=DFATRUST
NWGROUP0=DFALOGINGROUP
NWGROUP1=DFAOWNERGROUP
NWGROUP2=DFATRUSTGROUP
DCEGROUP0=dfagroup0
DCEGROUP1=dfagroup1
DCEGROUP2=dfagroup2
OTHEROBJ=DFAOTHER
MASKOBJ=DFAMASK
GWVOLUME=DFATP
TOPDIR=../../sales.hitachi.co.jp/fs/dfatree
FVTFILE=DFAGWTP.FVT
ERRORMODE=STOP
```

Figure 7-3 Gateway Default Configuration File

(c) Configuration File of Client

Figure 7-4 shows default Configuration File for Client:

```
FVTFILE=DFACTP.FVT
NWUSER=DFALOGIN
NWPASSWORD=DFAPASSWORD
NWSERVER=DFAGW
GWVOLUME=DFATP
ERRORMODE=STOP
```

Figure 7-4 Client Default Configuration File

7.4.3 Default NetWare/DCE User/Group

The Agent Configuration File and that of Gateway are automatically matched to have a mapping between DCE Users/Groups and DCE Users/Groups.

(a) Users

Table 7-9 shows default mapping of DCE Users and NetWare Users:

Table 7-9 Default Mapping Between DCE Users and NetWare Users

#	DCE User Name	DCE Password	NetWare User Name	NetWare Password
1	dfauser0	dfauser0	DFALOGIN	DFAPASSWORD
2	dfauser1	-	DFAOWNER	-
3	dfauser2	-	DFATRUST	-

(b) Groups

Table 7-10 shows default mapping between DCE Groups and NetWare Groups:

Table 7-10 Mapping Between NetWare Groups and DCE Groups

#	DCE Groups		NetWare Group Name
	DCE Group Name	Belonging Member	
1	dfagroup0	dfauser0	DFALOGINGROUP
2	dfagroup1	dfauser1	DFAOWNERGROUP
3	dfagroup2	dfauser2	DFATRUSTGROUP
4	DFA_OTHER_GROUP	-	DFAOTHER
5	DFA_MASK_OBJ	-	DFAMASK

7.4.4 Default Directory Structure for the testing

See Chapter 10 for the DFS directory structure.

This DFS directory structure is determined by the Tree Generation File of Agent. The Configuration File of Agent specifies the ACL rights and owners.

Chapter 8. Messages

1. Messages Issued by Agent

KDDS30001-E DCE login failed.
xxxx()->yyyy():nnn

arguments: xxxx(): executed function name
 yyyy(): an API issued
 nnn: an error code
explanation: Failed to enter DCE.
action: Check that the environment of the DCE Security Service is correct.

KDDS30002-E DCE logout failed.
xxxx()->yyyy():nnn

arguments: xxxx(): executed function name
 yyyy(): an API issued
 nnn: an error code
explanation: Failed to exit DCE.
action: Check that the environment of the DCE Security Service is correct.

KDDS30003-E Failed to read Configuration File.
xxxx()->yyyy():nnn

arguments: xxxx(): executed function name
 yyyy(): an API issued
 nnn: an error code
explanation: An access error occurred at the open/read to the Configuration File.
action: Check that the Configuration File exists in the directory where the executing module exists.

KDDS30004-E Failed to read Tree Generation File.
xxxx()->yyyy():nnn

arguments: xxxx(): executed function name
 yyyy(): an API issued
 nnn: an error code
explanation: An access error occurred at the open/read to the tree generation file.
action: Check that the tree generation file exists in the directory designated at the Tree Item
in
 the Configuration File.

KDDS30005-E Failed to write to Log File.
xxxx()->yyyy():nnn

arguments: xxxx(): executed function name
 yyyy(): an API issued
 nnn: an error code
explanation: An access error occurred at the open/write to the Tree Generation File.
action: Check that the directory designated at the LOGFILE Item in the Configuration File.

KDDS30011-E Error in Configuration File (line number: nn).

arguments: nn: the line number where an error occurred
explanation: The information set in the line number nn of the Configuration File is invalid.
action: Correct the Configuration File.

KDDS30012-E Error in Tree Generation File (line number: nn).

arguments: nn: the line number where an error occurred
explanation: The information set in the line number nnn of the Tree Generation File is invalid.
action: Correct the tree generation file.

KDDS30013-Q Log File already exists. Overwrite ? (Y/N)

explanation: The logfile"dfaagtp.log"already exists.
action: Enter "y" or "n" ("Y" or "N" is also acceptable).
"y": The logfile will be remade.
"n": The process will be killed.

KDDS30014-E Cannot run further tests. Will take an immediate exit.

explanation: Due to an error, the test suite cannot continue the further verification.
action: Follow the instruction displayed before this message.

KDDS30021-I Started to build Test Tree.

explanation: Reports the start of a process.
action: none

KDDS30022-I Directory ddddd was made.

arguments: ddddd: directory name
explanation: Reports that the dierctory make was completion. This message is displayed for each dierctory made.
action: none

KDDS30023-I File fffff was made.

arguments: fffff: file name
explanation: Reports that the file make was completion. This message is displayed for each file made.
action: none

KDDS30024-I Test Tree build completed.

explanation: Reports the normal end of the process.
action: none

KDDS30025-E Error in making Directory ddddd.
xxxx()->yyyy():nnn

arguments: ddddd: directory name
xxxx(): executed function name
yyyy(): an API issued
nnn: an error code
explanation: An error occurred while a directory is created.
action: Check the environment of the DFS Server.

KDDS30026-E Error in setting ACL to Directory ddddd.

xxxx()->yyyy():nnn

arguments: dddd: directory name
xxxx(): executed function name
yyyy(): an API issued
nnn: an error code

explanation: An error occurred when the ACL rights is set to the directory.

action: Check the environment of the DFS Server.

KDDS30027-E Error in setting Owner to Directory dddd.
xxxx()->yyyy():nnn

arguments: dddd: directory name
xxxx(): executed function name
yyyy(): an API issued
nnn: an error code

explanation: An error occurred when the owner in the ACL rights is set to the directory.

action: Check the environment of the DFS Server.

KDDS30028-E Error in making File ffff.
xxxx()->yyyy():nnn

arguments: ffff: file name
xxxx(): executed function name
yyyy(): an API issued
nnn: an I/O error code

explanation: An error occurred when a file is made.

action: Check the environment of the DFS Server.

KDDS30029-E Error in setting ACL to File ffff.
xxxx()->yyyy():nnn

arguments: ffff: file name
xxxx(): executed function name
yyyy(): an API issued
nnn: an error code

explanation: An error occurred when the ACL rights is set to the file.

action: Check the environment of the DFS Server.

KDDS30030-E Error in setting Owner to File ffff.
xxxx()->yyyy():nnn

arguments: ffff: file name
xxxx(): executed function name
yyyy(): an API issued
nnn: an error code

explanation: An error occurred when the owner in the ACL rights is set to the file.

action: Check the environment of the DFS Server.

KDDS30031-E Error in setting Time Stamp to File ffff.
xxxx()->yyyy():nnn

arguments: ffff: file name
xxxx(): executed function name
yyyy(): an API issued
nnn: an error code

explanation: An error occurred when the file-update time/date is set.

action: Check the environment of the DFS Server.

KDDS30032-E Error in setting contents to File fffff.
xxxx()->yyyy():nnn

arguments: fffff: file name
xxxx(): executed function name
yyyy(): an API issued
nnn: an error code

explanation: An error occurred when writing onto the file.

action: Check the environment of the DFS Server.

KDDS30033-E Failed to assign enough area to File fffff.

arguments: fffff: file name
explanation: The file generation failed because the area size designated in the Tree File could not assigned.
action: Change the file size, and retry.

KDDS30034-E Error in setting Time Stamp to Directory ddddd.
xxxx()->yyyy():nnn

arguments: ddddd: directory name
xxxx(): executed function name
yyyy(): an API issued
nnn: an error code

explanation: An error occurred when the directory-update time/date is set.

action: Check the environment of the DFS Server.

KDDS30035-E Error in setting Owner Group to Directory ddddd.
xxxx()->yyyy():nnn

arguments: ddddd: directory name
xxxx(): executed function name
yyyy(): an API issued
nnn: an error code

explanation: An error occurred when the owner group in the ACL rights is set to the directory.

action: Check the environment of the DFS Server.

KDDS30036-E Error in setting Owner Group to File ffff.
xxxx()->yyyy():nnn

arguments: ffff: file name
xxxx(): executed function name
yyyy(): an API issued
nnn: an error code

explanation: An error occurred when the owner group in the ACL rights is set to the file.

action: Check the environment of the DFS Server.

KDDS30037-E No enough memory to read Tree Generation File.

explanation: Failed to allocate the table area for inputting the Tree Generation File.

action: Check the environment of the DFS Server.

2. Messages Issued by Gateway

KDDS32000-I Verification of Gateway environment started.

explanation: Confirms the Gateway environment was started.

action: none

KDDS32001-I Gateway environment successfully verified.

Gateway User Name :xxx

:yyy

Gateway Group Name :zzz

:www

other_obj :vvv

mask_obj :uuu

Gateway Volume Name:ttt

arguments: xxx: A Gateway user name

yyy: A Gateway user name (Two or more Gateway user names are displayed if there are two or more Gateway users that have taken checked the registration check)

zzz: A Gateway group name

www: A Gateway group name(Two or more Gateway group names are displayed if there are two or more Gateway groups that have taken checked the registration check)

vvv: The Gateway group name corresponding to other_obj

uuu: The Gateway group name corresponding to mask_obj

ttt: A Gateway volume name

explanation: Confirms the Gateway environment was normally completed.

action: none

KDDS32002-I Gateway environment verification discontinued.

explanation: The Gateway environment verification was terminated because the Gateway environment is

not valid for executing the test suite.

action: Follow the instructions in the message before this message.

KDDS32003-E Gateway is not running.

explanation: The test suite for Gateway was started without running Gateway (DFA.NLM).

action: Start Gateway first, then start the Gateway test suite after the initialization by Gateway is completed.

KDDS32004-Q Test Suite Log File already exists. Overwrite ? (Y/N)

explanation: There is a logfile made by the previous run of the test suite. This message asks whether or

not it is all right to overwrite the logfile.

action: Enter "Y" to overwrite and continue the process. Enter "N" to terminate the process.

KDDS32005-E User xxx is not a NetWare user.

arguments: xxx: a user name
explanation: The user designated in the Configuration File (NWUSERn=) is not registered as a NetWare user.
action: Register the user name in the Configuration File as a NetWare user with using SYSCON Utility of NetWare. Or check if the name designated by NWUSERn= is correct.

KDDS32006-E NetWare user xxx is not a Gateway User.

arguments: xxx: a NetWare user name
explanation: The NetWare user designated in the Configuration File (NWUSERn=) is not registered as a Gateway user.
action: Use Administration Utility to register the NetWare user designated in the Configuration File as a Gateway user, or check if the name in NWUSERn= is correct.

KDDS32007-E Group xxx is not a NetWare group.

arguments: xxx: a group name
explanation: The group designated in the Configuration File (NWGROUPn=, OTHEROBJ=, MASKOBJ=) is not registered as a NetWare group.
action: Use SYSCON Utility to register the group designated in the Configuration File. Or check if the names defined by NWGROUPn=, OTHEROBJ=, and MASKOBJ= are correct.

KDDS32008-E NetWare group xxx is not a Gateway Group.

arguments: xxx: NetWare group name
explanation: The NetWare group designated in the Configuration File (NWGROUPn=, OTHEROBJ=, MASKOBJ=) is not registered as a Gateway group.
action: Use Administration Utility to register the NetWare group designated in the Configuration File as a Gateway group. Or check if the names defined by NWGROUPn=, OTHEROBJ=, and MASKOBJ= are correct.

KDDS32009-E NetWare group xxx is not related to DCE group yyy.

arguments: xxx: NetWare group name
yyy: DCEgroup name
explanation: The DCE group name in the Configuration File (DCEGROUPn=) is not mapped to the NetWare group in the Configuration File (NWGROUPn=). Or, the NetWare group name in the Configuration File (OTHEROBJ=, MASKOBJ=) is not mapped to DFA_OTHER_GROUP or DFA_MASK_OBJ.
action: Use Administration Utility to map the NetWare group in the Configuration File with the DCE group in the Configuration File. Or check if the names defined by NWGROUPn=, DCEGROUPn=, OTHEROBJ=, and MASKOBJ= are correct.

KDDS32010-E DCE group related to NetWare group xxx is not defined.

arguments: xxx: a NetWare group name
explanation: There is no DCE group name that corresponds to the NetWare group name in the Configuration File (NWGROUPn=).
action: Set a DCE group name to the Configuration File.

KDDS32011-E NetWare group related to DCE group xxx is not defined.

arguments: xxx: DCEgroup name
explanation: There is no NetWare group name that corresponds to the DCE group name in the Configuration File (DCEGROUPn=)
action: Set a NetWare group to the Configuration File NetWare group.

KDDS32012-E Volume xxx is not a NetWare volume.

arguments: xxx: a volume name
explanation: The volume designated in the Configuration File (GWVOLUME=) is not a NetWare volume
or is not mounted as a NetWare volume.
action: Use INSTALL Utility to make/mount the NetWare volume designated in the Configuration File. Or, check that the name in GWVOLUME= is correct.

KDDS32013-E NetWare volume xxx is not a Gateway Volume.

arguments: xxx: NetWare a volume name
explanation: The Configuration File (GWVOLUME=) NetWare volume volume
action: Administration Utility the Configuration File NetWare volume GWVOLUME=

KDDS32014-E NetWare volume xxx is not related to DFS Mount Point yyy.

arguments: xxx: NetWare volume
yyy: DFS mount point
explanation: The NetWare volume designated in the Configuration File (GWVOLUME=) is not mapped to
the DFS mount point in the Configuration File (TOPDIR=).
action: Use Administration Utility to map the NetWare volume to the DFS mount point in the Configuration File. Or, check that the names in GWVOLUME= and TOPDIR= are correct.

KDDS32015-E No Configuration File.

explanation: There is no Configuration File.
action: Make the Configuration File in an appropriate directory.

KDDS32016-E Configuration File has invalid data (line=xxx).

arguments: xxx: the line number where an error exists
explanation: There is an invalid key word or invalid definition information in the Configuration File.
Or
a same key word is duplicated.
action: Correct the error in the designated line of the Configuration File.

KDDS32017-E Failed to access bindery.	
function	:xxx
return value	:yyy
errno	:zzz
NetWareErrno	:www
name	:vvv
property	:uuu

arguments: xxx: a function name
yyy: a return value
zzz: errno
www: NetWare Errno
vvv: a user/group name (object name)
uuu: a property name

explanation: An access error occurred in the bindery file.

action: Use SYSCON Utility of NetWare to delete the NetWare user/group shown by vvv, re-register a NetWare user/group and Gateway user /group, then restart. If the same error repeats, use the BINDFIX command of NetWare to restructure the bindery file.

KDDS32018-E Invalid Gateway Volume Information.	
---	--

explanation: There is invalid information in the Gateway volume information registered by Administration Utility. This could be a malfunction of Administration Utility.

action: Report to Gateway Administrator.

KDDS32100-I Gateway verification started.	
---	--

explanation: The Gateway testing is started.

action: none

KDDS32101-I Gateway verification completed.	
---	--

explanation: The testing of Gateway is completed.

action: none

KDDS32102-I xxx started.	
--------------------------	--

arguments: xxx: the name of the Test Item File

explanation: xxx is being tested.

action: none

KDDS32103-I xxx successfully verified.	
--	--

arguments: xxx: the name of the Test Item File

explanation: The test of xxx completed normally.

action: none

KDDS32104-E xxx failed.
function :yyy
return value :zzz
errno :www
NetWareErrno :vvv

arguments: xxx: the name of the Test Item File
yyy: a function name
zzz: a return value
www: errno
vvv: NetWare Errno
explanation: The test xxx does not work.
action: Check the error message and logging.

KDDS32105-Q Discontinue further verification ? (Y/N)

explanation: When ERRORMODE=STOP is designated in the Configuration File and a Test Item was unsuccessfully verified, the Test Suite asks whether or not to continue the further testing.
action: Enter "Y" to terminate the testing, and "N" to continue.

KDDS32106-E Invalid data in Test Item Catalog File (line=xxx).

arguments: xxx: the line number where an error occurred
explanation: There is invalid information in the Test Item Registration File.
action: Check the erroneous line in the Test Item Registration File.

KDDS32107-E No Test Item Catalog File.

explanation: There is no Test Item Registration File.
action: Make the Test Item Registration File in an appropriate directory. Or, check if the name designated in FVTFILE= of the Configuration File is correct.

KDDS32108-E Invalid data in Test Item File xxx (line=yyy).

arguments: xxx: the name of the Test Item File where an error exists
yyy: the line number where an error exists
explanation: There is invalid information in the definition in the Test Item File.
action: Check the Test Item File.

KDDS32109-E No Test Item File xxx.

arguments: xxx: the name of the Test Item File where an error exists
explanation: There is no Test Item File.
action: Make the Test Item File in an appropriate directory. Or, check the file name of the Test Item File.

KDDS32110-I All the Test Items (xxx) successfully verified.

arguments: xxx: the number of the Test Items
explanation: All the Test Items were successfully tested.
action: none

KDDS32111-I Successfully ended : xxx item(s) Abnormally ended : yyy item(s)

arguments: xxx: the number of the successfully completed Test Items
yyy: the number of the unsuccessfully completed Test Items.
explanation: There was an unsuccessfully verified item.
action: none

KDDS32200-E File access error.
file name :xxx
function :yyy
return value :zzz
errno :www
NetWareErrno :vvv

arguments: xxx: the name of the file where an access error occurred
yyy: a function name
zzz: a return value
www: errno
vvv: NetWare Errno
explanation: A file access error occurred.
action: See the shooting trouble information in “System Messages” of the NetWare manuals.

KDDS32201-E Shortage of memory.

explanation: There is not enough memory.
action: See the shooting trouble information in “System Messages” of the NetWare manuals.

KDDS32202-E Internal error.
function :xxx
return value :yyy
errno :zzz
NetWareErrno :www

arguments: xxx: a function name
yyy: a return value
zzz: errno
www: NetWareErrno
explanation: An internal error occurred in the Gateway test suite.
action: Refer to the error messages and logging to find the cause of the error.

3.Messages Issue by Client

KDDS33001-I DFA test started.

explanation: The test is started.

action: N/A

KDDS33002-I XXXXXXXXX.XXX is tested.

arguments: XXXXXXXXX.XXX: The name of the Test Item File

explanation: The Test Item is being tested.

action: N/A

KDDS33003-I XXXXXXXXX.XXX successfully ended.

arguments: XXXXXXXXX.XXX: The name of the Test Item File

explanation: The Test Item was successfully completed.

action: N/A

KDDS33004-I XXXXXXXXX.XXX abnormally ended.

arguments: XXXXXXXXX.XXX: The name of the Test Item File

explanation: There was an error while the Test Item was tested. The details of the error are given by the

previous message.

action: See the previous message.

KDDS33005-Q Quit further test? (Y/N)

explanation: There was an error in the test.

If STOP is set to ERRORMODE in the Configuration File, the Test Suite asks whether or not

to continue the further testing.

action: Enter "Y" to quit the further testing, "N" to continue.

KDDS33006-I All the test cases (xxx item(s)) successfully ended.

arguments: xxx: the number of the Test Items

explanation: All the Test Items were successfully tested.

action: none

KDDS33007-I Successfully ended : xxx item(s) Abnormally ended : yyy item(s)

arguments: xxx: the number of the successfully completed Test Items

yyy: the number of unsuccessfully completed Test Items.

explanation: There was an unsuccessfully verified item.

action: N/A

KDDS33008-I DFA test ended.

explanation: The test is completed.

action: N/A

KDDS33100-E Failed to log in to NetWare.
function=xxx, API=yyy, an error code=zzzz

arguments: xxx: a function name
yyy: an API name
zzzz: an error code
explanation: Failed to enter NetWare.
action: Report the erroneous API name and error code to Administrator.

KDDS33101-E Failed to log in to DCE.
function=xxx, API=yyy, an error code=zzzz

arguments: xxx: a function name
yyy: an API name
zzzz: an error code
explanation: Failed to enter DCE.
action: Report the erroneous API name and error code to Administrator.

KDDS33102-E File-Access Volume Mapping failed.
function=xxx, API=yyy, an error code=zzzz

arguments: xxx: a function name
yyy: an API name
zzzz: an error code
explanation: Failed to map the File-Access volume.
action: Report the erroneous API name and error code to Administrator.

KDDS33103-E Syntax error in Configuration File.
line=xxx

arguments: xxx: the line number (including REM) where an error occurred.
explanation: There is an error in the Configuration File.
action: Check that the definition complies with "Section 4.3.4.2 The Configuration File."

KDDS33104-E Syntax error in Test Item Catalog File.
line=xxx

arguments: xxx: the line number (including REM) where an error occurred.
explanation: There is an error in the Test Item Registration File.
action: Check that the definition complies with "Section 4.3.4.3 The Test Item Registration File."

KDDS33105-E Syntax error in Test Item File.
line=xxx

arguments: xxx: the line number (including REM) where an error occurred.
explanation: There is an error in the Test Item File (only the text format).
action: Check that the definition complies with "Section 4.3.4.4 The Test Item File."

KDDS33106-E Syntax error in Base File.
line=xxx

arguments: xxx: the line number (including REM) where an error occurred.
explanation: There is an error in the Base File.
action: Check that the definition complies with “Section 4.3.4.6 The Base File.”

KDDS33107-E Access error.
file=aaa, function=xxx, API=yyy, an error code=zzzz

arguments: aaa: a file type (if the file is opened when the text file format is verified, a file pointer (FP! - FP4) or file handle (FH1 - FH4) is displayed)
xxx: a function name
yyy: an API name
zzzz: an error code
explanation: A file access error occurred (including an error of “no target file”).
action: Check that the target file exists. If it does, remake the file. (The contents of the file was destroyed)

KDDS33108-E DCE logout failed.
function=xxx, API=yyy, an error code=zzzz

arguments: xxx: a function name
yyy: an API name
zzzz: an error code
explanation: Failed to exit DCE.
action: Report the API name and error code to Administrator.

KDDS33109-E NetWare logout failed.
function=xxx, API=yyy, an error code=zzzz

arguments: xxx: a function name
yyy: an API name
zzzz: an error code
explanation: Failed to exit NetWare.
action: Report the API name and error code to Administrator.

KDDS33110-E Communication error.
function=xxx, API=yyy, an error code=zzzz

arguments: xxx: a function name
yyy: an API name
zzzz: an error code
explanation: There is an API error in NetWare.
action: Report the API name and error code to Administrator.

KDDS33111-E Internal error.
function=xxx, API=yyy, an error code=zzzz

arguments: xxx: a function name
yyy: an API name
zzzz: an error code
explanation: There was an internal error.
action: Report the API name and error code to Administrator.

KDDS33112-E Shortage of memory. function=xxx, API=yyy, an error code=zzzz	
arguments:	xxx: a function name yyy: an API name zzzz: an error code
explanation:	There is not enough memory.
action:	Terminate other applications, then restart the Test Suite. If this error repeats, increase the memory.

KDDS33113-E I/O error. function=xxx, API=yyy, an error code=zzzz	
arguments:	xxx: a function name yyy: an API name zzzz: an error code
explanation:	There was an I/O error.
action:	Check the medium where the error occurred. If the cause of the error is not found, report the API name and error code to Administrator.

KDDS33114-Q Test Suite Log File already exists. Overwrite? (Y/N)	
explanation:	The logging file for the Test Suite already exists.
action:	Enter "Y" to overwrite the file, "N" to not overwrite.

KDDS33115-E Line numbers of Test Item File and Base File don't match.	
explanation:	The number of lines in the Test Item File does not match that of the Base File ignoring command (REM) lines. Only the text file format.
action:	Check the contents of the Test Item File and the Base File.

KDDS33116-E The result doesn't match with Base File. line=xxx, output=yyy	
arguments:	xxx: the line number of the Base File (including REM) where an unmatching occurred yyy: the actual result (which did not match with the expected result in the Base File)
explanation:	The actual output did not match the expected result stored in the Base File.
action:	Check that the expected value in the Base File is correct. If correct, there may be an error in the DFA system. Report to Administrator.

Chapter 9. Test Item Listing

Table 10-1 summarizes the test items in the test suite. Each line of the Input Data has a line number.

Table 10-1 Test Items

#	sub-#	Summary	Test Location
1	1.1	<Input Data> [MAP] :See Section 4.3.38 <How to Verify> [stat] :Library function of WATCOM C/C++ 10.0(NetWare server)	On NetWare server (Gateway)
2	1.2		
3	1.3		
4	1.4		
5	1.5	<Input Data> [dir] :An MS-DOS command	On NetWare client
6	1.6	<Input Data> [cd] :An MS-DOS command [map] :A NetWare command	
7	1.7	<Input Data> [CHDIR] :See Section 4.3.4.2 (viii) [MAP] : See Section 4.3.4.2 (xx)	
8	2.1	<Input Data> [dtlist] :A DFAM command	
9	2.2	<Input Data> [dright] :A DFAM command	
10	2.3	<Input Data> [dlistdir]:A DFAM command	
11	2.4	<Input Data> [dndir] :A DFAM command	
12	3.1	<Input Data> [dremove] :A DFAM command	

13	3.2	<Input Data> [dgrant] :A DFAM command		
14	3.3	<Input Data> [drevoke] :A DFAM command		
15	4.1	<Input Data> [fc] :An MS-DOS command		
16	4.2	<Input Data> [find] :An MS-DOS command		
17	4.3	<Input Data> [type] :An MS-DOS command		
18	4.4	<Input Data> [copy] :An MS-DOS command [dndir] :A DFAM command		
19	5.1	<Input Data> [copy] :An MS-DOS command		On NetWare client
20	5.2	<Input Data> [del] :An MS-DOS command		
21	5.3	<Input Data> [rename] :An MS-DOS command		
22	5.4	<Input Data> [md] :An MS-DOS command		
23	5.5	<Input Data> [rd] :An MS-DOS command		
24	5.6	<Input Data> [type] :An MS-DOS command		
25	5.7	<Input Data> [copy] :An MS-DOS command [wait] :A test suite command provided by Hitachi [fc] :An MS-DOS command		

26	6.1	<Input Data> [OPEN] : See Section 4.3.4.2 (i) [CLOSE] : See Section 4.3.4.2 (ii) [READ] : See Section 4.3.4.2 (iii) [FOPEN] : See Section 4.3.4.2 (xii) [FCLOSE] : See Section 4.3.4.2 (xiii) [FGETC] : See Section 4.3.4.2 (xiv) [FGETS] : See Section 4.3.4.2 (xv) [FREAD] : See Section 4.3.4.2 (xvi)	
27	6.2	<Input Data> [STAT] : See Section 4.3.4.2 (x)	
28	7.1	<Input Data> [OPEN] : See Section 4.3.4.2 (i) [CLOSE] : See Section 4.3.4.2 (ii) [WRITE] : See Section 4.3.4.2 (iv)	
29	7.2	<Input Data> [OPEN] : See Section 4.3.4.2 (i) [CLOSE] : See Section 4.3.4.2 (ii) [WRITE] : See Section 4.3.4.2 (iv) [FOPEN] : See Section 4.3.4.2 (xii) [FCLOSE] : See Section 4.3.4.2 (xiii) [FPUTC] : See Section 4.3.4.2 (xvii) [FPUTS] : See Section 4.3.4.2 (xiix) [FWRITE] : See Section 4.3.4.2 (xix)	
30	7.3	<Input Data> [UNLINK] : See Section 4.3.4.2 (v)	
31	7.4	<Input Data> [CHDIR] : See Section 4.3.4.2 (viii) [RENAME]: See Section 4.3.4.2 (ix)	On NetWare client
32	7.5	<Input Data> [UTIME] : See Section 4.3.4.2 (xi)	

33	8.1	<Input Data> [MKDIR] : See Section 4.3.4.2 (vi)	
34	8.2	<Input Data> [RMDIR] : See Section 4.3.4.2 (vii)	
35	8.3	<Input Data> [CHDIR] : See Section 4.3.4.2 (viii) [RENAME]: See Section 4.3.4.2 (ix)	
36	9.1	<Input Data> [dsetpass] :A DFAM command	

1. Verification of DFS Volume Mapping

The DFS Volume Mapping compares how the file and directory names on the DFS side with the NetWare side.

Table 9-2 Verification of File Name Conversion (No Conversion)

Test Item ID	G0101001
Purpose	Verifies that the file “a” is mapped without the name conversion.
Initial Status	See Table 10-2 #2
Input Data	MAP (sp) d1-01-01\a
Expected Results	The file name remains unconverted.
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0101002
Purpose	Verifies that the file “12” is mapped without the name conversion.
Initial Status	See Table 10-2 #3
Input Data	MAP (sp) d1-01-01\12
Expected Results	The file name remains unconverted.
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0101003
Purpose	Verifies that the file “a2345678” is mapped without the name conversion.
Initial Status	See Table 10-2 #4
Input Data	MAP (sp) d1-01-01\a2345678
Expected Results	The file name remains unconverted.
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0101004
Purpose	Verifies that the file “a.a” is mapped without the name conversion.
Initial Status	See Table 10-2 #5
Input Data	MAP (sp) d1-01-01\a.a
Expected Results	The file name remains unconverted.
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0101005
Purpose	Verifies that the file “a.12” is mapped without the name conversion.
Initial Status	See Table 10-2 #6
Input Data	MAP (sp) d1-01-01\a.12
Expected Results	The file name remains unconverted.
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0101006
Purpose	Verifies that the file “a.a23” is mapped without the name conversion.
Initial Status	See Table 10-2 #7
Input Data	MAP (sp) d1-01-01\a.a23
Expected Results	The file name remains unconverted.
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0101007
Purpose	Verifies that the file “aaaaaaa8.aa3” is mapped without the name conversion.
Initial Status	See Table 10-2 #8
Input Data	MAP (sp) d1-01-01\aaaaaaa8.aa3
Expected Results	The file name remains unconverted.
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Table 9-3 Verification of Directory Name Conversion (No Conversion)

Test Item ID	G0102001
Purpose	Verifies that the directory “a” is mapped without the name conversion.
Initial Status	See Table 10-2 #10
Input Data	MAP (sp) d1-01-02\a
Expected Results	The directory name remains unconverted.
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0102002
Purpose	Verifies that the directory “12” is mapped without the name conversion.
Initial Status	See Table 10-2 #11
Input Data	MAP (sp) d1-01-02\12
Expected Results	The directory name remains unconverted.
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0102003
Purpose	Verifies that the directory “a2345678” is mapped without the name conversion.
Initial Status	See Table 10-2 #12
Input Data	MAP (sp) d1-01-02\a2345678
Expected Results	The directory name remains unconverted.
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0102004
Purpose	Verifies that the directory “a.a” is mapped without the name conversion.
Initial Status	See Table 10-2 #13
Input Data	MAP (sp) d1-01-02\a.a
Expected Results	The directory name remains unconverted.
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0102005
Purpose	Verifies that the directory “a.12” is mapped without the name conversion.
Initial Status	See Table 10-2 #14
Input Data	MAP (sp) d1-01-02\a.12
Expected Results	The directory name remains unconverted.
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0102006
Purpose	Verifies that the directory “a.a23” is mapped without the name conversion.
Initial Status	See Table 10-2 #15
Input Data	MAP (sp) d1-01-02\a.a23
Expected Results	The directory name remains unconverted.
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0102007
Purpose	Verifies that the directory “aaaaaaa8.aa3” is mapped without the name conversion.
Initial Status	See Table 10-2 #16
Input Data	MAP (sp) d1-01-02\aaaaaaa8.aa3
Expected Results	The directory name remains unconverted.
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Table 9-4 Verification of File Name Conversion (with Conversion)

Test Item ID	G0103001
Purpose	Verifies that the file name “UPPER (capital letters)” is mapped after the name conversion.
Initial Status	See Table 10-2 #18
Input Data	MAP (sp) d1-01-03\upper~wj
Expected Results	The file name was converted to “UPPER~WJ”
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0103002
Purpose	Verifies that the file name “upper.EXT (the file extension is capital)” is mapped after the name conversion.
Initial Status	See Table 10-2 #19
Input Data	MAP (sp) d1-01-03\upper~zi
Expected Results	The file name was converted to “UPPER~ZI”
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0103003
Purpose	Verifies that the file name “verylongentry (an entry name with 9 characters or more)” is mapped after the name conversion.
Initial Status	See Table 10-2 #20
Input Data	MAP (sp) d1-01-03\veryl~uk
Expected Results	The file name was converted to “VERYL~UK”
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0103004
Purpose	Verifies that the file name “verylong.extension (the file extension has 4 characters or more)” is mapped after the name conversion.
Initial Status	See Table 10-2 #21
Input Data	MAP (sp) d1-01-03\veryl~1r
Expected Results	The file name was converted to “VERYL~1R”
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0103005
Purpose	Verifies that the file name “.login (beginning with period)” is mapped after the name conversion.
Initial Status	See Table 10-2 #22
Input Data	MAP (sp) d1-01-03\~logi~ow
Expected Results	The file name was converted to “~LOGI~OW”
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0103006
Purpose	Verifies that the file name “123.456.789.0 (two or more periods)” is mapped after the name conversion.
Initial Status	See Table 10-2 #23
Input Data	MAP (sp) d1-01-03\123~4~lo.0
Expected Results	The file name was converted to “123~4~LO.0”
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0103007
Purpose	Verifies that the file name “<*\?> (with invalid characters)” is mapped after the name conversion.
Initial Status	See Table 10-2 #24
Input Data	MAP (sp) d1-01-03\~~~~~ra
Expected Results	The file name was converted to “~~~~~RA”
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Test Item ID	G0103008
Purpose	Verifies that the file name “con (same as the device names)” is mapped after the name conversion.
Initial Status	See Table 10-2 #25
Input Data	MAP (sp) d1-01-03\con~~~i3
Expected Results	The file name was converted to “CON~~~I3”
How to Verify	Issue the stat function to the file, and check if 0 is returned.

Table 9-5 Verification of Directory Name Conversion (with Conversion)

Test Item ID	G0104001
Purpose	Verifies that the directory name “UPPER (capital letters)” is mapped after the name conversion.
Initial Status	See Table 10-2 #27
Input Data	MAP (sp) d1-01-04\upper~wj
Expected Results	The directory name was converted to “UPPER~WJ”
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0104002
Purpose	Verifies that the directory name “upper.EXT (the file extension is capital)” is mapped after the name conversion.
Initial Status	See Table 10-2 #28
Input Data	MAP (sp) d1-01-04\upper~zi
Expected Results	The directory name was converted to “UPPER~ZI”
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0104003
Purpose	Verifies that the directory name “verylongentry (an entry name of 9 characters or more)” is mapped after the name conversion.
Initial Status	See Table 10-2 #29
Input Data	MAP (sp) d1-01-04\veryl~uk
Expected Results	The directory name was converted to “VERYL~UK”
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0104004
Purpose	Verifies that the directory name “verylong.extension (the file extension has 4 characters or more)” is mapped after the name conversion.
Initial Status	See Table 10-2 #30
Input Data	MAP (sp) d1-01-04\veryl~1r
Expected Results	The directory name was converted to “VERYL~1R”
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0104005
Purpose	Verifies that the directory name “.login (beginning with a period)” is mapped after the name conversion.
Initial Status	See Table 10-2 #31
Input Data	MAP (sp) d1-01-04\~logi~ow
Expected Results	The directory name was converted to “~LOGI~OW”
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0104006
Purpose	Verifies that the directory name “123.456.789.0 (with 2 or more periods)” is mapped after the name conversion.
Initial Status	See Table 10-2 #32
Input Data	MAP (sp) d1-01-04\123~4~lo.0
Expected Results	The directory name was converted to “123~4~LO.0”
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0104007
Purpose	Verifies that the directory name “*\? (contains invalid characters)” is mapped after the name conversion.
Initial Status	See Table 10-2 #33
Input Data	MAP (sp) d1-01-04\~~~~~ra
Expected Results	The directory name was converted to “~~~~~RA”
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Test Item ID	G0104008
Purpose	Verifies that the directory name “con (a same name as device names)” is mapped after the name conversion.
Initial Status	See Table 10-2 #34
Input Data	MAP (sp) d1-01-04\con~~~i3
Expected Results	The directory name was converted to “CON~~~I3”
How to Verify	Issue the stat function to the directory, and check if 0 is returned.

Table 9-6 Verification of the File Size

Test Item ID	C0105001
Purpose	Verifies that the file size is properly mapped.
Initial Status	See Table 10-2 #36
Input Data	dir (sp) u:\d1-01-05\size0
Expected Results	The file size is 0 bytes.
How to Verify	Check the results on the DIR command screen.

Test Item ID	C0105002
Purpose	Verifies that the file size is properly mapped.
Initial Status	See Table 10-2 #37
Input Data	dir (sp) u:\d1-01-05\size1k
Expected Results	The file size is 1,024 bytes.
How to Verify	Check the results on the DIR command screen.

Test Item ID	C0105003
Purpose	Verifies that the file size is properly mapped.
Initial Status	See Table 10-2 #38
Input Data	dir (sp) u:\d1-01-05\size4k
Expected Results	The file size is 4,096 bytes.
How to Verify	Check the results on the DIR command screen.

Test Item ID	C0105004
Purpose	Verifies that the file size is properly mapped.
Initial Status	See Table 10-2 #39
Input Data	dir (sp) u:\d1-01-05\size10k
Expected Results	The file size is 10,240 bytes.
How to Verify	Check the results on the DIR command screen.

Test Item ID	C0105005
Purpose	Verifies that the file size is properly mapped.
Initial Status	See Table 10-2 #40
Input Data	dir (sp) u:\d1-01-05\size40k
Expected Results	The file size is 40,960 bytes.
How to Verify	Check the results on the DIR command screen.

Test Item ID	C0105006
Purpose	Verifies that the file size is properly mapped.
Initial Status	See Table 10-2 #41
Input Data	dir (sp) u:\d1-01-05\size100k
Expected Results	The file size is 102,400 bytes.
How to Verify	Check the results on the DIR command screen.

Test Item ID	C0105007
Purpose	Verifies that the file size is properly mapped.
Initial Status	See Table 10-2 #42
Input Data	dir (sp) u:\d1-01-05\size400k
Expected Results	The file size is 409,600 bytes.
How to Verify	Check the results on the DIR command screen.

Test Item ID	C0105008
Purpose	Verifies that the file size is properly mapped.
Initial Status	See Table 10-2 #43
Input Data	dir (sp) u:\d1-01-05\size1m
Expected Results	The file size is 1,048,576 bytes.
How to Verify	Check the results on the DIR command screen.

Table 9-7 Verification of the Mapping to the Network Drives (Using NetWare Commands)

Test Item ID	C0106001
Purpose	Verifies that the NetWare file name of 126 bytes (including a server name) or shorter can be mapped to the network drive.
Initial Status	See Table 10-2 #44-56
Input Data	<p>1:cd (sp) \d1-01-06</p> <p>2:map (sp) root (sp) v:=u:</p> <p>3:v:</p> <p>4:cd (sp) dfatst01</p> <p>5:map (sp) root (sp) v:=v:</p> <p>6:cd (sp) dfatst02</p> <p>7:map (sp) root (sp) v:=v:</p> <p>8:cd (sp) dfatst03</p> <p>9:map (sp) root (sp) v:=v:</p> <p>10:cd (sp) dfatst04</p> <p>11:map (sp) root (sp) v:=v:</p> <p>12:cd (sp) dfatst05</p> <p>13:map (sp) root (sp) v:=v:</p> <p>14:cd (sp) dfatst06</p> <p>15:map (sp) root (sp) v:=v:</p> <p>16:cd (sp) dfatst07</p> <p>17:map (sp) root (sp) v:=v:</p> <p>18:cd (sp) dfatst08</p> <p>19:map (sp) root (sp) v:=v:</p> <p>20:cd (sp) dfatst09</p> <p>21:map (sp) root (sp) v:=v:</p> <p>22:cd (sp) dfatst10</p> <p>23:map (sp) root (sp) v:=v:</p> <p>24:cd (sp) dfatst11</p> <p>25:map (sp) root (sp) v:=v:</p> <p>26:cd (sp) 666666</p> <p>27:map (sp) root (sp) v:=v:</p>
Expected Results	The mapping to the directory “666666” was successful.
How to Verify	Check the results on the each command screen.

Test Item ID	C0106002
Purpose	Verifies that the NetWare file name that exceeds 126 bytes (including a server name) cannot be mapped to the network drive.
Initial Status	See Table 10-2 #44-55, 57
Input Data	1:cd (sp) \d1-01-06 2:map (sp) root (sp) v:=u: 3:v: 4:cd (sp) dfatst01 5:map (sp) root (sp) v:=v: 6:cd (sp) dfatst02 7:map (sp) root (sp) v:=v: 8:cd (sp) dfatst03 9:map (sp) root (sp) v:=v: 10:cd (sp) dfatst04 11:map (sp) root (sp) v:=v: 12:cd (sp) dfatst05 13:map (sp) root (sp) v:=v: 14:cd (sp) dfatst06 15:map (sp) root (sp) v:=v: 16:cd (sp) dfatst07 17:map (sp) root (sp) v:=v: 18:cd (sp) dfatst08 19:map (sp) root (sp) v:=v: 20:cd (sp) dfatst09 21:map (sp) root (sp) v:=v: 22:cd (sp) dfatst10 23:map (sp) root (sp) v:=v: 24:cd (sp) dfatst11 25:map (sp) root (sp) v:=v: 26:cd (sp) 7777777 27:map (sp) root (sp) v:=v:
Expected Results	The mapping to the directory “dfatst11” was successful. The mapping of the directory “7777777” was failed.
How to Verify	Check the results on the each command screen.

Table 9-8 Verification of the Mapping to the Network Drives (Using NetWare APIs)

Test Item ID	C0107001
Purpose	Verifies that the NetWare file name of 126 bytes (including a server name) or shorter can be mapped to the network drive.
Initial Status	See Table 10-2 #58-70
Input Data	<p>1:CHDIR (sp) \d1-01-07</p> <p>2:MAP</p> <p>3:CHDIR (sp) dfatst01</p> <p>4:MAP</p> <p>5:CHDIR (sp) dfatst02</p> <p>6:MAP</p> <p>7:CHDIR (sp) dfatst03</p> <p>8:MAP</p> <p>9:CHDIR (sp) dfatst04</p> <p>10:MAP</p> <p>11:CHDIR (sp) dfatst05</p> <p>12:MAP</p> <p>13:CHDIR (sp) dfatst06</p> <p>14:MAP</p> <p>15:CHDIR (sp) dfatst07</p> <p>16:MAP</p> <p>17:CHDIR (sp) dfatst08</p> <p>18:MAP</p> <p>19:CHDIR (sp) dfatst09</p> <p>20:MAP</p> <p>21:CHDIR (sp) dfatst10</p> <p>22:MAP</p> <p>23:CHDIR (sp) dfatst11</p> <p>24:MAP</p> <p>25:CHDIR (sp) 666666</p> <p>26:MAP</p>
Expected Results	The mapping to the directory “666666” was successful.
How to Verify	Check that all the error number for the above Input Data are 0.

Test Item ID	C0107002
Purpose	Verifies that the NetWare file name that exceeds 126 bytes (including a server name) cannot be mapped to the network drive.
Initial Status	See Table 10-2 #58-69, 71
Input Data	1:CHDIR (sp) \d1-01-07 2:MAP 3:CHDIR (sp) dfatst01 4:MAP 5:CHDIR (sp) dfatst02 6:MAP 7:CHDIR (sp) dfatst03 8:MAP 9:CHDIR (sp) dfatst04 10:MAP 11:CHDIR (sp) dfatst05 12:MAP 13:CHDIR (sp) dfatst06 14:MAP 15:CHDIR (sp) dfatst07 16:MAP 17:CHDIR (sp) dfatst08 18:MAP 19:CHDIR (sp) dfatst09 20:MAP 21:CHDIR (sp) dfatst10 22:MAP 23:CHDIR (sp) dfatst11 24:MAP 25:CHDIR (sp) 7777777 26:MAP
Expected Results	The mapping to the directory “dfatst11” was successful. The mapping from the directory “7777777” was failed.
How to Verify	Check that the error numbers for the above Input Data are as follows: 1-25: 0 26 : -1

2. Verification of the Rights

The test items in Table 10-9 confirm that the ACL rights are successfully converted to the Trustees.

Table 9-9 Verification of the DTLIST Command

Test Item ID	C0201001
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of files.
Initial Status	See Table 10-2 #74
Input Data	dtlist (sp) u:\d1-02-01\for_user\nil.fil (sp) users
Expected Results	The user Trustee of the designated file is as follows: DFALOGIN : [-----], DFAOWNER : [-RWC--FAQ]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201002
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of files.
Initial Status	See Table 10-2 #75
Input Data	dtlist (sp) u:\d1-02-01\for_user\rx.fil (sp) users
Expected Results	The user Trustee of the designated file is as follows: DFALOGIN : [-R---F--], DFAOWNER : [-RWC--FAQ]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201003
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of files.
Initial Status	See Table 10-2 #76
Input Data	dtlist (sp) u:\d1-02-01\for_user\w.fil (sp) users
Expected Results	The user Trustee of the designated file is as follows: DFALOGIN : [--WC----Q], DFAOWNER : [-RWC--FAQ]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201004
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of files.
Initial Status	See Table 10-2 #77
Input Data	dtlist (sp) u:\d1-02-01\for_user\rwx.fil (sp) users
Expected Results	The user Trustee of the designated file is as follows: DFALOGIN : [-RWC--F-Q], DFAOWNER : [-RWC--FAQ]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201005
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of files.
Initial Status	See Table 10-2 #78
Input Data	dtlist (sp) u:\d1-02-01\for_user\c.fil (sp) users
Expected Results	The user Trustee of the designated file is as follows: DFALOGIN : [-----A-], DFAOWNER : [-RWC--FAQ]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201011
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of files.
Initial Status	See Table 10-2 #86
Input Data	dtlist (sp) u:\d1-02-01\for_grp\nil.fil (sp) groups
Expected Results	The group Trustee of the designated file is as follows: DFALOGINGROUP : [-----], DFAOWNERGROUP : [-RWC--FAQ], DFAOTHER : [-----], DFAMASK : [-RWC--FAQ]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201012
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of files.
Initial Status	See Table 10-2 #87
Input Data	dtlist (sp) u:\d1-02-01\for_grp\rx.fil (sp) groups
Expected Results	The group Trustee of the designated file is as follows: DFALOGINGROUP : [-R----F--], DFAOWNERGROUP : [-RWC--FAQ], DFAOTHER : [-----], DFAMASK : [-RWC--FAQ]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201013
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of files.
Initial Status	See Table 10-2 #88
Input Data	dtlist (sp) u:\d1-02-01\for_grp\w.fil (sp) groups
Expected Results	The group Trustee of the designated file is as follows: DFALOGINGROUP : [--WC---Q], DFAOWNERGROUP : [-RWC--FAQ], DFAOTHER : [-----], DFAMASK : [-RWC--FAQ]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201014
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of files.
Initial Status	See Table 10-2 #89
Input Data	dtlist (sp) u:\d1-02-01\for_grp\rwx.fil (sp) groups
Expected Results	The group Trustee of the designated file is as follows: DFALOGINGROUP : [-RWC--F-Q], DFAOWNERGROUP : [-RWC--FAQ], DFAOTHER : [-----], DFAMASK : [-RWC--FAQ]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201015
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of files.
Initial Status	See Table 10-2 #90
Input Data	dtlist (sp) u:\d1-02-01\for_grp\c.fil (sp) groups
Expected Results	The group Trustee of the designated file is as follows: DFALOGINGROUP : [-----A-], DFAOWNERGROUP : [-RWC--FAQ], DFAOTHER : [-----], DFAMASK : [-RWC--FAQ]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201021
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of directories.
Initial Status	See Table 10-2 #79
Input Data	dtlist (sp) u:\d1-02-01\for_user\nil.dir (sp) users
Expected Results	The user Trustee of the designated directory is as follows: DFALOGIN : [-----], DFAOWNER : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201022
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of directories.
Initial Status	See Table 10-2 #80
Input Data	dtlist (sp) u:\d1-02-01\for_user\rx.dir (sp) users
Expected Results	The user Trustee of the designated directory is as follows: DFALOGIN : [-----F--], DFAOWNER : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201023
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of directories.
Initial Status	See Table 10-2 #81
Input Data	dtlist (sp) u:\d1-02-01\for_user\wxi.dir (sp) users
Expected Results	The user Trustee of the designated directory is as follows: DFALOGIN : [--WC--F-Q], DFAOWNER : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201024
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of directories.
Initial Status	See Table 10-2 #82
Input Data	dtlist (sp) u:\d1-02-01\for_user\wxd.dir (sp) users
Expected Results	The user Trustee of the designated directory is as follows: DFALOGIN : [---E-F--], DFAOWNER : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201025
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of directories.
Initial Status	See Table 10-2 #83
Input Data	dtlist (sp) u:\d1-02-01\for_user\wxid.dir (sp) users
Expected Results	The user Trustee of the designated directory is as follows: DFALOGIN : [--WCEMF--], DFAOWNER : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201026
Purpose	Verifies that the DTLIST command successfully displays the user's proper Trustees of directories.
Initial Status	See Table 10-2 #84
Input Data	dtlist (sp) u:\d1-02-01\for_user\c.dir (sp) users
Expected Results	The user Trustee of the designated directory is as follows: DFALOGIN : [-----A-], DFAOWNER : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201031
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of directories.
Initial Status	See Table 10-2 #91
Input Data	dtlist (sp) u:\d1-02-01\for_grp\nil.dir (sp) groups
Expected Results	The group Trustee of the designated directory is as follows: DFALOGINGROUP : [-----], DFAOWNERGROUP : [--WCEMFA-], DFAOTHER : [-----], DFAMASK : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201032
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of directories.
Initial Status	See Table 10-2 #92
Input Data	dtlist (sp) u:\d1-02-01\for_grp\rx.dir (sp) groups
Expected Results	The group Trustee of the designated directory is as follows: DFALOGINGROUP : [-----F--], DFAOWNERGROUP : [--WCEMFA-], DFAOTHER : [-----], DFAMASK : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201033
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of directories.
Initial Status	See Table 10-2 #93
Input Data	dtlist (sp) u:\d1-02-01\for_grp\wxi.dir (sp) groups
Expected Results	The group Trustee of the designated directory is as follows: DFALOGINGROUP : [--WC--F-Q], DFAOWNERGROUP : [--WCEMFA-], DFAOTHER : [-----], DFAMASK : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201034
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of directories.
Initial Status	See Table 10-2 #94
Input Data	dtlist (sp) u:\d1-02-01\for_grp\wxd.dir (sp) groups
Expected Results	The group Trustee of the designated directory is as follows: DFALOGINGROUP : [---E-F--], DFAOWNERGROUP : [--WCEMFA-], DFAOTHER : [-----], DFAMASK : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201035
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of directories.
Initial Status	See Table 10-2 #95
Input Data	dtlist (sp) u:\d1-02-01\for_grp\wxid.dir (sp) groups
Expected Results	The group Trustee of the designated directory is as follows: DFALOGINGROUP : [--WCEMF--], DFAOWNERGROUP : [--WCEMFA-], DFAOTHER : [-----], DFAMASK : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Test Item ID	C0201036
Purpose	Verifies that the DTLIST command successfully displays the group's proper Trustees of directories.
Initial Status	See Table 10-2 #96
Input Data	dtlist (sp) u:\d1-02-01\for_grp\c.dir (sp) groups
Expected Results	The group Trustee of the designated directory is as follows: DFALOGINGROUP : [-----A-], DFAOWNERGROUP : [--WCEMFA-], DFAOTHER : [-----], DFAMASK : [--WCEMFA-]
How to Verify	Check the results on the DTLIST command screen.

Table 9-10 Verification of the DRIGHT Command

Test Item ID	C0202001
Purpose	Verifies that, using the DRIGHT command, the file with the Trustee rights (excluding the security equivalence) has valid and effective rights. (displaying the effective rights of user_obj)
Initial Status	See Table 10-2 #100
Input Data	dright (sp) u:\d1-02-02\equiva.off\trustee.on\user_obj.fil
Expected Results	The effective rights of the target file are [-R----FA-].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202002
Purpose	Verifies that, using the DRIGHT command, the file with the Trustee rights (excluding the security equivalence) has valid and effective rights.
Initial Status	See Table 10-2 #101
Input Data	dright (sp) u:\d1-02-02\equiva.off\trustee.on\rwx1.fil
Expected Results	The effective rights of the target file are [-RWC--F-Q].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202003
Purpose	Verifies that, using the DRIGHT command, the file with the Trustee rights (excluding the security equivalence) has valid and effective rights. (a part of mask_obj is off)
Initial Status	See Table 10-2 #102
Input Data	dright (sp) u:\d1-02-02\equiva.off\trustee.on\rwx2.fil
Expected Results	The effective rights of the target file are [-R----F--].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202004
Purpose	Verifies that, using the DRIGHT command, the directory with the Trustee rights (excluding the security equivalence) has valid and effective rights. (displaying the effective rights of user_obj)
Initial Status	See Table 10-2 #103
Input Data	dright (sp) u:\d1-02-02\equiva.off\trustee.on\user_obj.dir
Expected Results	The effective rights of the target directory are [-----FA-].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202005
Purpose	Verifies that, using the DRIGHT command, the directory with the Trustee rights (excluding the security equivalence) has valid and effective rights.
Initial Status	See Table 10-2 #104
Input Data	dright (sp) u:\d1-02-02\equiva.off\trustee.on\rwxid1.dir
Expected Results	The effective rights of the target directory are [--WCEMF--].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202006
Purpose	Verifies that, using the DRIGHT command, the directory with the Trustee rights (excluding the security equivalence) has valid and effective rights. (a part of mask_obj is off)
Initial Status	See Table 10-2 #105
Input Data	dright (sp) u:\d1-02-02\equiva.off\trustee.on\rwxid2.dir
Expected Results	The effective rights of the target directory are [-----F--].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202011
Purpose	Verifies that, using the DRIGHT command, the file without the Trustee rights (excluding the security equivalence) has valid and effective rights. (displaying the Trustee rights of other_obj)
Initial Status	See Table 10-2 #107
Input Data	dright (sp) u:\d1-02-02\equiva.off\trustee.off\nil.fil
Expected Results	The effective rights of the target file are [-R----F--].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202012
Purpose	Verifies that, using the DRIGHT command, the directory without the Trustee rights (excluding the security equivalence) has valid and effective rights. (displaying the Trustee rights of other_obj)
Initial Status	See Table 10-2 #108
Input Data	dright (sp) u:\d1-02-02\equiva.off\trustee.off\nil.dir
Expected Results	The effective rights of the target directory are [--WC--F-Q].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202021
Purpose	Verifies that, using the DRIGHT command, the file with the Trustee rights (including the security equivalence) has valid and effective rights.
Initial Status	See Table 10-2 #111
Input Data	dright (sp) u:\d1-02-02\equiva.on\trustee.on\rwx1.fil
Expected Results	The effective rights of the target file are [R-WC--F-Q].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202022
Purpose	Verifies that, using the DRIGHT command, the file with the Trustee rights (including the security equivalence) has valid and effective rights. (a part of mask_obj is off)
Initial Status	See Table 10-2 #112
Input Data	dright (sp) u:\d1-02-02\equiva.on\trustee.on\rwx2.fil
Expected Results	The effective rights of the target file are [-R----F--].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202023
Purpose	Verifies that, using the DRIGHT command, the directory with the Trustee rights (including the security equivalence) has valid and effective rights.
Initial Status	See Table 10-2 #113
Input Data	dright (sp) u:\d1-02-02\equiva.on\trustee.on\rwxid1.dir
Expected Results	The effective rights of the target directory are [--WCEMF--].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202024
Purpose	Verifies that, using the DRIGHT command, the directory with the Trustee rights (including the security equivalence) has valid and effective rights. (a part of mask_obj is off)
Initial Status	See Table 10-2 #114
Input Data	dright (sp) u:\d1-02-02\equiva.on\trustee.on\rwxid2.dir
Expected Results	The effective rights of the target directory are [-----F--].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202031
Purpose	Verifies that, using the DRIGHT command, the file without the Trustee rights (including the security equivalence) has valid and effective rights. (displaying the Trustee rights of group_obj)(a part of mask_obj is off)
Initial Status	See Table 10-2 #115
Input Data	dright (sp) u:\d1-02-02\equiva.on\trustee.on\grp_obj.fil
Expected Results	The effective rights of the target file are [-R----FA-].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202032
Purpose	Verifies that, using the DRIGHT command, the directory without the Trustee rights (including the security equivalence) has valid and effective rights. (displaying the Trustee rights of group_obj)(a part of mask_obj is off)
Initial Status	See Table 10-2 #116
Input Data	dright (sp) u:\d1-02-02\equiva.on\trustee.on\grp_obj.dir
Expected Results	The effective rights of the target directory are [-----FA-].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202033
Purpose	Verifies that, using the DRIGHT command, the file without the Trustee rights (including the security equivalence) has valid and effective rights.
Initial Status	See Table 10-2 #118
Input Data	dright (sp) u:\d1-02-02\equiva.on\trustee.off\nil.fil
Expected Results	The effective rights of the target file are [-R----F--].
How to Verify	Check the results on the DRIGHT command screen.

Test Item ID	C0202034
Purpose	Verifies that, using the DRIGHT command, the directory without the Trustee rights (including the security equivalence) has valid and effective rights.
Initial Status	See Table 10-2 #119
Input Data	dright (sp) u:\d1-02-02\equiva.on\trustee.off\nil.dir
Expected Results	The effective rights of the target directory are [--WC--F-Q].
How to Verify	Check the results on the DRIGHT command screen.

Table 9-11 Verification of the DLISTDIR Command

Test Item ID	C0203001
Purpose	Verifies that, using the DLISTDIR command, the hierarchical sub-directories and their effective rights are normal.
Initial Status	See Table 10-2 #120-127
Input Data	dlistdir (sp) u:\d1-02-03 (sp) /a
Expected Results	The effective rights of the hierarchical sub-directories should be as follows: rwxid.dir : [--WCEMF--] rx.dir : [-----F--] wxi.dir : [--WC--F-Q] wxd.dir : [----E-F--] rwxd.dir : [----E-F--] wxid.dir : [--WCEMF--] rx.dir : [-----F--]
How to Verify	DLISTCheck the results on the DIR command screen.

Table 9-12 Verification of the DNDIR Command (Including the Testing for Time Stamp)

Test Item ID	C0204001
Purpose	Verifies that, using the DNDIR command, the hierarchical sub-directories and their effective rights are normal.
Initial Status	See Table 10-2 #128-134
Input Data	dndir (sp) u:\d1-02-04
Expected Results	<p>The files and directories should carry the following information:</p> <p>size0 : size = 0, last update = 08-01-95 11:00AM, owner = DFAOWNER</p> <p>size1k : size = 1,024, last update = 08-01-95 11:00AM, owner = DFAOWNER</p> <p>size4k : size = 4,096, last update = 08-01-95 11:00AM, owner = DFAOWNER</p> <p>rx.dir : effective rights = [-----F--], owner = DFAOWNER, last update = 08-01-95 11:00AM</p> <p>wxi.dir : effective rights = [--WC--F-Q], owner = DFAOWNER, last update = 08-01-95 11:00AM</p> <p>wxd.dir : effective rights = [---E-F--], owner = DFAOWNER, last update = 08-01-95 11:00AM</p>
How to Verify	Check the results on the DNDIR command screen.

3. Verification of Trustee change

Table 9-13 Verification of the DREMOVE Command

Test Item ID	C0301001
Purpose	Verifies that, with the REMOVE command, the user Trustee was successfully removed from the Trustee list of the file.
Initial Status	See Table 10-2 #137
Input Data	dremove (sp) user (sp) dfalogin (sp) from (sp) u:\d1-03-01\for_user\c.fil
Expected Results	DFALOGIN was successfully deleted from the Trustee list of the designated file.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301002
Purpose	Verifies that, with the REMOVE command, the group Trustee was successfully removed from the Trustee list of the file.
Initial Status	See Table 10-2 #142
Input Data	dremove (sp) group (sp) dfalogingroup (sp) from (sp) u:\d1-03-01\for_grp\c.fil
Expected Results	DFALOGINGROUP was successfully deleted from the Trustee list of the designated file.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301003
Purpose	Verifies that, when the file does not have [c] in the ACL rights, the REMOVE command cannot remove the user Trustee from the Trustee list of the file.
Initial Status	See Table 10-2 #139
Input Data	dremove (sp) user (sp) dfalogin (sp) from (sp) u:\d1-03-01\for_user\rx.fil
Expected Results	Failed to delete DFALOGIN from the Trustee list of the designated file.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301004
Purpose	Verifies that, when the file does not have [c] in the ACL rights, the REMOVE command cannot delete the group Trustee from the Trustee list of the file.
Initial Status	See Table 10-2 #144
Input Data	dremove (sp) group (sp) dfalogingroup (sp) from (sp) u:\d1-03-01\for_grp\rx.fil
Expected Results	Failed to delete DFALOGINGROUP from the Trustee list of the designated file.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301011
Purpose	Verifies that, with the REMOVE command, the user Trustee was successfully removed from the Trustee list of the directory.
Initial Status	See Table 10-2 #138
Input Data	dremove (sp) user (sp) dfalogin (sp) from (sp) u:\d1-03-01\for_user\c.dir
Expected Results	DFALOGIN was successfully deleted from the Trustee list of the designated directory.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301012
Purpose	Verifies that, with the REMOVE command, the group Trustee was successfully removed from the Trustee list of the directory.
Initial Status	See Table 10-2 #143
Input Data	dremove (sp) group (sp) dfalogingroup (sp) from (sp) u:\d1-03-01\for_grp\c.dir
Expected Results	DFALOGINGROUP was successfully deleted from the Trustee list of the designated directory.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301013
Purpose	Verifies that, when the directory does not have [c] in the ACL rights, the REMOVE command cannot delete the user Trustee from the Trustee list of the directory.
Initial Status	See Table 10-2 #140
Input Data	dremove (sp) user (sp) dfalogin (sp) from (sp) u:\d1-03-01\for_user\rx.dir
Expected Results	Failed to delete DFALOGIN from the Trustee list of the designated directory.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301014
Purpose	Verifies that, when the directory does not have [c] in the ACL rights, the REMOVE command cannot delete the group Trustee from the Trustee list of the directory.
Initial Status	See Table 10-2 #145
Input Data	dremove (sp) group (sp) dfalogingroup (sp) from (sp) u:\d1-03-01\for_grp\rx.dir
Expected Results	Failed to delete DFALOGINGROUP from the Trustee list of the designated directory.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301021
Purpose	Verifies that the DREMOVE command cannot remove user_obj of the file.
Initial Status	See Table 10-2 #146
Input Data	dremove (sp) user (sp) dfalogin (sp) from (sp) u:\d1-03-01\user_obj.fil
Expected Results	Failed to delete DFALOGIN from the Trustee list of the designated file.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301022
Purpose	Verifies that the DREMOVE command cannot remove user_obj of the directory.
Initial Status	See Table 10-2 #150
Input Data	dremove (sp) user (sp) dfalogin (sp) from (sp) u:\d1-03-01\user_obj.dir
Expected Results	Failed to delete DFALOGIN from the Trustee list of the designated directory.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301031
Purpose	Verifies that the DREMOVE command cannot remove group_obj of the file.
Initial Status	See Table 10-2 #147
Input Data	dremove (sp) group (sp) dfalogingroup (sp) from (sp) u:\d1-03-01\grp_obj.fil
Expected Results	Failed to delete DFALOGINGROUP from the Trustee list of the designated file.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301032
Purpose	Verifies that the DREMOVE command cannot remove group_obj of the directory.
Initial Status	See Table 10-2 #151
Input Data	dremove (sp) group (sp) dfalogingroup (sp) from (sp) u:\d1-03-01\grp_obj.dir
Expected Results	Failed to delete DFALOGINGROUP from the Trustee list of the designated directory.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301041
Purpose	Verifies that the DREMOVE command cannot remove other_obj of the file.
Initial Status	See Table 10-2 #148
Input Data	dremove (sp) group (sp) dfaother (sp) from (sp) u:\d1-03-01\othr_obj.fil
Expected Results	Failed to delete DFAOTHER from the Trustee list of the designated file.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301042
Purpose	Verifies that the DREMOVE command cannot remove other_obj of the directory.
Initial Status	See Table 10-2 #152
Input Data	dremove (sp) group (sp) dfaother (sp) from (sp) u:\d1-03-01\othr_obj.dir
Expected Results	Failed to delete DFAOTHER from the Trustee list of the designated directory.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301051
Purpose	Verifies that the DREMOVE command cannot remove mask_obj of the file.
Initial Status	See Table 10-2 #149
Input Data	dremove (sp) group (sp) dfamask (sp) from (sp) u:\d1-03-01\mask_obj.fil
Expected Results	Failed to delete DFAMASK from the Trustee list of the designated file.
How to Verify	Check the results on the DREMOVE command screen.

Test Item ID	C0301052
Purpose	Verifies that the DREMOVE command cannot remove mask_obj of the directory.
Initial Status	See Table 10-2 #153
Input Data	dremove (sp) group (sp) dfamask (sp) from (sp) u:\d1-03-01\mask_obj.dir
Expected Results	Failed to delete DFAMASK from the Trustee list of the designated directory.
How to Verify	Check the results on the DREMOVE command screen.

The test items in Table 9-14 verifies that the Trustee can be normally converted into the ACL rights.

Table 9-14 Verification of the DGRANT Command

Test Item ID	C0302001
Purpose	Verifies that the DGRANT command can grant the user's Trustee to the file.
Initial Status	See Table 10-2 #156
Input Data	dgrant (sp) r (sp) f (sp) for (sp) u:\d1-03-02\for_user\c1.fil (sp) to (sp) user (sp) dfatrust
Expected Results	The Trustee for DFATRUST of the file is set to [-R----F--]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302002
Purpose	Verifies that the DGRANT command can grant the user's Trustee to the file.
Initial Status	See Table 10-2 #157
Input Data	dgrant (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-02\for_user\c2.fil (sp) to (sp) user (sp) dfatrust
Expected Results	The Trustee for DFATRUST of the file is set to [--WC----Q]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302003
Purpose	Verifies that the DGRANT command can grant the user's Trustee to the file.
Initial Status	See Table 10-2 #158
Input Data	dgrant (sp) a (sp) for (sp) u:\d1-03-02\for_user\c3.fil (sp) to (sp) user (sp) dfatrust
Expected Results	The Trustee for DFATRUST of the file is set to [-----A-]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302011
Purpose	Verifies that the DGRANT command can grant the group's Trustee to the file.
Initial Status	See Table 10-2 #167
Input Data	dgrant (sp) r (sp) f (sp) for (sp) u:\d1-03-02\for_grp\c1.fil (sp) to (sp) group (sp) dfatrustgroup
Expected Results	The Trustee for DFATRUSTGROUP of the file is set to [-R----F--]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302012
Purpose	Verifies that the DGRANT command can grant the group's Trustee to the file.
Initial Status	See Table 10-2 #168
Input Data	dgrant (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-02\for_grp\c2.fil (sp) to (sp) group (sp) dfatrustedgroup
Expected Results	The Trustee for DFATRUSTGROUP of the file is set to [--WC---Q]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302013
Purpose	Verifies that the DGRANT command can grant the group's Trustee to the file.
Initial Status	See Table 10-2 #169
Input Data	dgrant (sp) a (sp) for (sp) u:\d1-03-02\for_grp\c3.fil (sp) to (sp) group (sp) dfatrustedgroup
Expected Results	The Trustee for DFATRUSTGROUP of the file is set to [-----A-]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302021
Purpose	Verifies that, when [c] is not set in the ACL rights of the file, the DGRANT command cannot grant the Trustee of the user.
Initial Status	See Table 10-2 #164
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\for_user\rx.fil (sp) to (sp) user (sp) dfalogin
Expected Results	The GRANT command failed to grant the Trustee of DFALOGIN to the designated file.
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302022
Purpose	Verifies that, when [c] is not set in the ACL rights of the file, the DGRANT command cannot grant the Trustee of the group.
Initial Status	See Table 10-2 #175
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\for_grp\rx.fil (sp) to (sp) group (sp) dfalogingroup
Expected Results	The GRANT command failed to grant the Trustee of DFALOGINGROUP to the designated file.
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302031
Purpose	Verifies that the DGRANT command can grant the user's Trustee to the directory.
Initial Status	See Table 10-2 #159
Input Data	dgrant (sp) f (sp) for (sp) u:\d1-03-02\for_user\c1.dir (sp) to (sp) user (sp) dfatrust
Expected Results	The Trustee for DFATRUST of the file is set to [-----F--]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302032
Purpose	Verifies that the DGRANT command can grant the user's Trustee to the directory.
Initial Status	See Table 10-2 #160
Input Data	dgrant (sp) a (sp) for (sp) u:\d1-03-02\for_user\c2.dir (sp) to (sp) user (sp) dfatrust
Expected Results	The Trustee for DFATRUST of the file is set to [-----A-]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302033
Purpose	Verifies that the DGRANT command can grant the user's Trustee to the directory.
Initial Status	See Table 10-2 #161
Input Data	dgrant (sp) w (sp) c (sp) f (sp) q (sp) for (sp) u:\d1-03-02\for_user\c3.dir (sp) to (sp) user (sp) dfatrust
Expected Results	The Trustee for DFATRUST of the file is set to [--WC--F-Q]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302034
Purpose	Verifies that the DGRANT command can grant the user's Trustee to the directory.
Initial Status	See Table 10-2 #162
Input Data	dgrant (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-02\for_user\c4.dir (sp) to (sp) user (sp) dfatrust
Expected Results	The Trustee for DFATRUST of the file is set to [--WCEMF--]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302035
Purpose	Verifies that the DGRANT command can grant the user's Trustee to the directory.
Initial Status	See Table 10-2 #163
Input Data	dgrant (sp) e (sp) f (sp) for (sp) u:\d1-03-02\for_user\c5.dir (sp) to (sp) user (sp) dfatruster
Expected Results	The Trustee for DFATRUSTER of the file is set to [---E-F--]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302041
Purpose	Verifies that the DGRANT command can grant the group's Trustee to the directory.
Initial Status	See Table 10-2 #170
Input Data	dgrant (sp) f (sp) for (sp) u:\d1-03-02\for_grp\c1.dir (sp) to (sp) group (sp) dfatrustergroup
Expected Results	The Trustee for DFATRUSTERGROUP of the directory is set to [-----F--]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302042
Purpose	Verifies that the DGRANT command can grant the group's Trustee to the directory.
Initial Status	See Table 10-2 #171
Input Data	dgrant (sp) a (sp) for (sp) u:\d1-03-02\for_grp\c2.dir (sp) to (sp) group (sp) dfatrustergroup
Expected Results	The Trustee for DFATRUSTERGROUP of the directory is set to [-----A-]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302043
Purpose	Verifies that the DGRANT command can grant the group's Trustee to the directory.
Initial Status	See Table 10-2 #172
Input Data	dgrant (sp) w (sp) c (sp) f (sp) q (sp) for (sp) u:\d1-03-02\for_grp\c3.dir (sp) to (sp) group (sp) dfatrustergroup
Expected Results	The Trustee for DFATRUSTERGROUP of the directory is set to [--WC--F-Q]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302044
Purpose	Verifies that the DGRANT command can grant the group's Trustee to the directory.
Initial Status	See Table 10-2 #173
Input Data	dgrant (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-02\for_grp\c4.dir (sp) to (sp) group (sp) dfatrustgroup
Expected Results	The Trustee for DFATRUSTGROUP of the directory is set to [--WCEMF--]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302045
Purpose	Verifies that the DGRANT command can grant the group's Trustee to the directory.
Initial Status	See Table 10-2 #174
Input Data	dgrant (sp) e (sp) f (sp) for (sp) u:\d1-03-02\for_grp\c5.dir (sp) to (sp) group (sp) dfatrustgroup
Expected Results	The Trustee for DFATRUSTGROUP of the directory is set to [---E-F--]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302051
Purpose	Verifies that, when [c] is not set in the ACL rights of the directory, the DGRANT command cannot grant the Trustee of the user.
Initial Status	See Table 10-2 #165
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\for_user\rx.dir (sp) to (sp) user (sp) dfalogin
Expected Results	The GRANT command failed to grant the Trustee of DFALOGIN to the designated directory.
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302052
Purpose	Verifies that, when [c] is not set in the ACL rights of the directory, the DGRANT command cannot grant the Trustee of the group.
Initial Status	See Table 10-2 #176
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\for_grp\rx.dir (sp) to (sp) group (sp) dfalogingroup
Expected Results	The GRANT command failed to grant the Trustee of DFALOGINGROUP to the designated directory.
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302061
Purpose	Verifies that the DGRANT command can grant the Trustee of other_obj to the file.
Initial Status	See Table 10-2 #177
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\othr_obj.fil (sp) to (sp) group (sp) dfaother
Expected Results	The Trustee for DFAOTHER of the file is set to [-RWC--FAQ].
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302062
Purpose	Verifies that the DGRANT command can grant the Trustee of other_obj to the directory.
Initial Status	See Table 10-2 #184
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\othr_obj.dir (sp) to (sp) group (sp) dfaother
Expected Results	The Trustee for DFAOTHER of the directory is set to [--WCEMFA-]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302063
Purpose	Verifies that, when [c] is not set in the ACL rights of the file, the DGRANT command cannot grant the Trustee of other_obj.
Initial Status	See Table 10-2 #178
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\othr_ng.fil (sp) to (sp) group (sp) dfaother
Expected Results	The GRANT command failed to grant the Trustee of DFAOTHER to the designated file.
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302064
Purpose	Verifies that, when [c] is not set in the ACL rights of the directory, the DGRANT command cannot grant the Trustee of other_obj.
Initial Status	See Table 10-2 #185
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\othr_ng.dir (sp) to (sp) group (sp) dfaother
Expected Results	The GRANT command failed to grant the Trustee of DFAOTHER to the designated directory.
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302071
Purpose	Verifies that the DGRANT command can grant the Trustee of mask_obj to the file.
Initial Status	See Table 10-2 #179
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\mask_obj.fil (sp) to (sp) group (sp) dfamask
Expected Results	The Trustee for DFAMASK of the file is set to [-RWC--FAQ]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302072
Purpose	Verifies that the DGRANT command can grant the Trustee of mask_obj to the directory.
Initial Status	See Table 10-2 #186
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\mask_obj.dir (sp) to (sp) group (sp) dfamask
Expected Results	The Trustee for DFAMASK of the directory is set to [--WCEMFA-]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302073
Purpose	Verifies that, when [c] is not set in the ACL rights of the file, the DGRANT command cannot grant the Trustee of mask_obj.
Initial Status	See Table 10-2 #180
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\mask_ng.fil (sp) to (sp) group (sp) dfamask
Expected Results	The GRANT command failed to grant the Trustee of DFAMASK to the designated file.
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302074
Purpose	Verifies that, when [c] is not set in the ACL rights of the directory, the DGRANT command cannot grant the Trustee of mask_obj
Initial Status	See Table 10-2 #187
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\mask_ng.dir (sp) to (sp) group (sp) dfamask
Expected Results	The GRANT command failed to grant the Trustee of DFAMASK to the designated directory.
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302081
Purpose	Verifies that the DGRANT command can grant the Trustee of user_obj to the file.
Initial Status	See Table 10-2 #181
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\user_obj.fil (sp) to (sp) user (sp) dfalogin
Expected Results	The Trustee for DFALOGIN of the file is set to [-RWC--FAQ]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302082
Purpose	Verifies that the DGRANT command can grant the Trustee of user_obj to the directory.
Initial Status	See Table 10-2 #188
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\user_obj.dir (sp) to (sp) user (sp) dfalogin
Expected Results	The Trustee for DFALOGIN of the directory is set to [--WCEMFA-]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302091
Purpose	Verifies that the DGRANT command can grant the Trustee of group_obj to the file.
Initial Status	See Table 10-2 #182
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\grp_obj.fil (sp) to (sp) group (sp) dfalogingroup
Expected Results	The Trustee for DFALOGINGROUP of the file is set to [-RWC--FAQ]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302092
Purpose	Verifies that the DGRANT command can grant the Trustee of group_obj to the directory.
Initial Status	See Table 10-2 #189
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\grp_obj.dir (sp) to (sp) group (sp) dfalogingroup
Expected Results	The Trustee for DFALOGINGROUP of the directory is set to [--WCEMFA-]
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302093
Purpose	Verifies that, when [c] is not set in the ACL rights of the file, the DGRANT command cannot grant the Trustee of group_obj
Initial Status	See Table 10-2 #183
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\grp_ng.fil (sp) to (sp) group (sp) dfalogingroup
Expected Results	The GRANT command failed to grant the Trustee of DFALOGINGROUP to the designated file.
How to Verify	Check the results on the DGRANT command screen.

Test Item ID	C0302094
Purpose	Verifies that, when [c] is not set in the ACL rights of the directory, the DGRANT command cannot grant the Trustee of mask_obj
Initial Status	See Table 10-2 #190
Input Data	dgrant (sp) all (sp) for (sp) u:\d1-03-02\grp_ng.dir (sp) to (sp) group (sp) dfalogingroup
Expected Results	The GRANT command failed to grant the Trustee of DFALOGINGROUP to the designated directory.
How to Verify	Check the results on the DGRANT command screen.

Table 9-15 Verification of the DREVOKE Command

Test Item ID	C0303001
Purpose	Verifies that the DREVOKE command successfully revokes the user Trustee of the file.
Initial Status	See Table 10-2 #193
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\for_user\all.fil (sp) from (sp) user (sp) dfalogin
Expected Results	The Trustee rights of DFALOGIN to the file is set to [-R----FA-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303002
Purpose	Verifies that the DREVOKE command successfully revokes the group Trustee of the file.
Initial Status	See Table 10-2 #198
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\for_grp\all.fil (sp) from (sp) group (sp) dfalogingroup
Expected Results	The Trustee rights of DFALOGINGROUP to the file is set to [-R----FA-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303003
Purpose	Verifies that, if [c] is not set in the ACL rights of the file, the DREVOKE command cannot revoke the user Trustee.
Initial Status	See Table 10-2 #195
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\for_user\rwx.fil (sp) from (sp) user (sp) dfalogin
Expected Results	The DREVOKE command failed to revoke the DFALOGIN Trustee of the designated file.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303004
Purpose	Verifies that, if [c] is not set in the ACL rights of the file, the DREVOKE command cannot revoke the group Trustee.
Initial Status	See Table 10-2 #200
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\for_grp\rwx.fil (sp) from (sp) group (sp) dfalogingroup
Expected Results	The DREVOKE command failed to revoke the DFALOGINGROUP Trustee of the designated file.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303011
Purpose	Verifies that the DREVOKE command successfully revokes the user Trustee of the directory.
Initial Status	See Table 10-2 #194
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\for_user\all.dir (sp) from (sp) user (sp) dfalogin
Expected Results	The Trustee rights of DFALOGIN to the directory is set to [-----A-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303012
Purpose	Verifies that the DREVOKE command successfully revokes the group Trustee of the directory.
Initial Status	See Table 10-2 #199
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\for_grp\all.dir (sp) from (sp) group (sp) dfalogingroup
Expected Results	The Trustee rights of DFALOGINGROUP to the directory is set to [-----A-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303013
Purpose	Verifies that, if [c] is not set in the ACL rights of the directory, the DREVOKE command cannot revoke the user Trustee.
Initial Status	See Table 10-2 #196
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\for_user\rwxid.dir (sp) from (sp) user (sp) dfalogin
Expected Results	The DREVOKE command failed to revoke the DFALOGIN Trustee of the designated directory.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303014
Purpose	Verifies that, if [c] is not set in the ACL rights of the directory, the DREVOKE command cannot revoke the group Trustee.
Initial Status	See Table 10-2 #201
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\for_grp\rwxid.dir (sp) from (sp) group (sp) dfalogingroup
Expected Results	The DREVOKE command failed to revoke the DFALOGINGROUP Trustee of the designated directory.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303021
Purpose	Verifies that the DREVOKE command successfully revokes the other_obj Trustee of the file.
Initial Status	See Table 10-2 #202
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\othr_obj.fil (sp) from (sp) group (sp) dfaothor
Expected Results	The Trustee rights of DFAOTHER to the file is set to [-R----FA-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303022
Purpose	Verifies that the DREVOKE command successfully revokes the other_obj Trustee of the directory.
Initial Status	See Table 10-2 #209
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\othr_obj.dir (sp) from (sp) group (sp) dfather
Expected Results	The Trustee rights of DFAOTHER to the directory is set to [-----A-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303023
Purpose	Verifies that, if [c] is not set in the ACL rights of the file, the DREVOKE command cannot revoke the other_obj Trustee.
Initial Status	See Table 10-2 #203
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\othr_ng.fil (sp) from (sp) group (sp) dfather
Expected Results	The DREVOKE command failed to revoke the DFAOTHER Trustee of the designated file.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303024
Purpose	Verifies that, if [c] is not set in the ACL rights of the directory, the DREVOKE command cannot revoke the other_obj Trustee.
Initial Status	See Table 10-2 #210
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\othr_ng.dir (sp) from (sp) group (sp) dfather
Expected Results	The DREVOKE command failed to revoke the DFAOTHER Trustee of the designated directory.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303031
Purpose	Verifies that the DREVOKE command successfully revokes the mask_obj Trustee of the file.
Initial Status	See Table 10-2 #204
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\mask_obj.fil (sp) from (sp) group (sp) dfamask
Expected Results	The Trustee rights of DFAMASK to the file is set to [-R----FA-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303032
Purpose	Verifies that the DREVOKE command successfully revokes the mask_obj Trustee of the file directory.
Initial Status	See Table 10-2 #211
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\mask_obj.dir (sp) from (sp) group (sp) dfamask
Expected Results	The Trustee rights of DFAMASK to the directory is set to [------A-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303033
Purpose	Verifies that, if [c] is not set in the ACL rights of the file, the DREVOKE command cannot revoke the mask_obj Trustee.
Initial Status	See Table 10-2 #205
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\mask_ng.fil (sp) from (sp) group (sp) dfamask
Expected Results	The DREVOKE command failed to revoke the DFAMASK Trustee of the designated file.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303034
Purpose	Verifies that, if [c] is not set in the ACL rights of the directory, the DREVOKE command cannot revoke the mask_obj Trustee.
Initial Status	See Table 10-2 #212
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\mask_ng.dir (sp) from (sp) group (sp) dfamask
Expected Results	The DREVOKE command failed to revoke the DFAMASK Trustee of the designated directory.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303041
Purpose	Verifies that the DREVOKE command successfully revokes the user_obj Trustee of the file.
Initial Status	See Table 10-2 #206
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\user_obj.fil (sp) from (sp) user (sp) dfalogin
Expected Results	The Trustee rights of DFALOGIN to the file is set to [-R----FA-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303042
Purpose	Verifies that the DREVOKE command successfully revokes the user_obj Trustee of the directory.
Initial Status	See Table 10-2 #213
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\user_obj.dir (sp) from (sp) user (sp) dfalogin
Expected Results	The Trustee rights of DFALOGIN to the directory is set to [-----A-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303051
Purpose	Verifies that the DREVOKE command successfully revokes the group_obj Trustee of the file.
Initial Status	See Table 10-2 #207
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\grp_obj.fil (sp) from (sp) group (sp) dfalogingroup
Expected Results	The Trustee rights of DFALOGINGROUP to the file is set to [-R----FA-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303052
Purpose	Verifies that the DREVOKE command successfully revokes the group_obj Trustee of the directory.
Initial Status	See Table 10-2 #214
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\grp_obj.dir (sp) from (sp) group (sp) dfalogingroup
Expected Results	The Trustee rights of DFALOGINGROUP to the directory is set to [------A-]
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303053
Purpose	Verifies that, if [c] is not set in the ACL rights of the file, the DREVOKE command cannot revoke the group_obj Trustee.
Initial Status	See Table 10-2 #208
Input Data	drevoke (sp) w (sp) c (sp) q (sp) for (sp) u:\d1-03-03\grp_ng.fil (sp) from (sp) group (sp) dfalogingroup
Expected Results	The DREVOKE command failed to revoke the DFALOGINGROUP Trustee of the designated file.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303054
Purpose	Verifies that, if [c] is not set in the ACL rights of the directory, the DREVOKE command cannot revoke the group_obj Trustee.
Initial Status	See Table 10-2 #215
Input Data	drevoke (sp) w (sp) c (sp) e (sp) m (sp) f (sp) for (sp) u:\d1-03-03\grp_ng.dir (sp) from (sp) group (sp) dfalogingroup
Expected Results	The DREVOKE command failed to revoke the DFALOGINGROUP Trustee of the designated directory.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303061
Purpose	The DREVOKE command cannot delete [A} of the Trustee from user_obj of the file.
Initial Status	See Table 10-2 #216
Input Data	drevoke (sp) a (sp) for (sp) u:\d1-03-03\rem_c.fil (sp) from (sp) user (sp) dfalogin
Expected Results	The DREVOKE command failed to revoke the DFALOGIN Trustee of the designated file.
How to Verify	Check the results on the DREVOKE command screen.

Test Item ID	C0303062
Purpose	The DREVOKE command cannot delete [A} of the Trustee from user_obj of the directory.
Initial Status	See Table 10-2 #217
Input Data	drevoke (sp) a (sp) for (sp) u:\d1-03-03\rem_c.dir (sp) from (sp) user (sp) dfalogin
Expected Results	The DREVOKE command failed to revoke the DFALOGIN Trustee of the designated directory.
How to Verify	Check the results on the DREVOKE command screen.

4. Verification of the MS-DOS Compatibility (DFS Directory Structure Is Unchanged)

Table 9-16 Verification of the FC Command

Test Item ID	C0401001
Purpose	Verifies that the FC command successfully handles the two binary files of the same size.
Initial Status	See Table 10-2 #219, 220
Input Data	fc (sp) /b (sp) u:\d1-04-01\fc001 (sp) u:\d1-04-01\fc002
Expected Results	The file sizes are the same.
How to Verify	Check the results on the FC command screen.

Test Item ID	C0401002
Purpose	Verifies that the FC command successfully handles the two text files of a different file size.
Initial Status	See Table 10-2 #221, 222
Input Data	fc (sp) u:\d1-04-01\fc003 (sp) u:\d1-04-01\fc004
Expected Results	The file sizes are not the same.
How to Verify	Check the results on the FC command screen.

Table 9-17 Verification of the FIND Command

Test Item ID	C0402001
Purpose	Verifies that the FIND command successfully handles a text file.
Initial Status	See Table 10-2 #224
Input Data	find (sp) "123456789" (sp) u:\d1-04-02\find001
Expected Results	The FIND command found the designated pattern.
How to Verify	Check the results on the FIND command screen.

Table 9-18 Verification of the TYPE Command

Test Item ID	C0403001
Purpose	Verifies that the TYPE command successfully handles a text file.
Initial Status	See Table 10-2 #226
Input Data	type (sp) u:\d1-04-03\type001
Expected Results	The TYPE command is successfully completed.
How to Verify	Check the results on the TYPE command screen.

Table 9-19 Verification of an Executable File

Test Item ID	C0404001
Purpose	Verifies that an executable file on Gateway can be executed from Client.
Initial Status	See Table 10-2 #227
Input Data	1:copy (sp) t:\dndir.exe (sp) u:\d1-04-04 2:u:\d1-04-04\dndir (sp) u:\d1-04-04
Expected Results	The DNDIR command is executable.
How to Verify	Check the results on the DNDIR command screen.

5. Verification of the MS-DOS Commands (DFS Directory Structure Is Changed)

Table 9-20 Verification of the COPY Command

Test Item ID	C0501001
Purpose	Verifies that, when the file to be copied does not have [r] in the ACL rights, the COPY command cannot copy the file.
Initial Status	See Table 10-2 #230, 238
Input Data	copy (sp) u:\d1-05-01\rx.dir\nil.fil (sp) u:\d1-05-99\create.dir\rwxi.dir
Expected Results	Failed to copy..
How to Verify	Check the results on the COPY command screen.

Test Item ID	C0501002
Purpose	Verifies that, when the directory to which a file is copied does not have [wxi] in the ACL rights, the COPY command cannot copy the file.
Initial Status	See Table 10-2 #231, 237
Input Data	copy (sp) u:\d1-05-01\rx.dir\rx.fil (sp) u:\d1-05-99\create.dir\rx.dir
Expected Results	Failed to copy..
How to Verify	Check the results on the COPY command screen.

Test Item ID	C0501003
Purpose	Verifies that, when both the directory (to which a file is copied) and the file (to be copied) have proper rights, the COPY command can copy the file.
Initial Status	See Table 10-2 #231, 238
Input Data	copy (sp) u:\d1-05-01\rx.dir\rx.fil (sp) u:\d1-05-99\create.dir\rwxi.dir
Expected Results	Successfully copied.
How to Verify	Check the results on the COPY command screen.

Test Item ID	C0501012
Purpose	Verifies that, when the directory to which a file is copied has a file with the same name, and the file does not have [w] in the ACL rights, the COPY command cannot copy the file.
Initial Status	See Table 10-2 #231, 241
Input Data	copy (sp) u:\d1-05-01\rx.dir\rx.fil (sp) u:\d1-05-99\trunc.dir\rx.fil
Expected Results	Failed to copy..
How to Verify	Check the results on the COPY command screen.

Test Item ID	C0501013
Purpose	Verifies that, when the directory to which a file is copied has a file with the same name, but both the directory and the file have proper rights, the COPY command can copy the file.
Initial Status	See Table 10-2 #232, 240
Input Data	copy (sp) u:\d1-05-01\rx.dir\rwx.fil (sp) u:\d1-05-99\trunc.dir\rwx.fil
Expected Results	Successfully copied.
How to Verify	Check the results on the COPY command screen.

Test Item ID	C0501021
Purpose	Verifies that, when the directory from which a file is copied does not have [rx] in the ACL rights, the COPY command cannot copy the file.
Initial Status	See Table 10-2 #234, 238
Input Data	copy (sp) u:\d1-05-01\c.dir\rwx.fil (sp) u:\d1-05-99\create.dir\rwxi.dir
Expected Results	Failed to copy..
How to Verify	Check the results on the COPY command screen.

Test Item ID	C0501031
Purpose	Verifies that, when a non-existing file is designated, the COPY command returns an error.
Initial Status	none
Input Data	copy (sp) u:\d1-05-01\rx.dir\non.fil (sp) u:\d1-05-99\create.dir\rwxi.dir
Expected Results	error
How to Verify	Check the results on the COPY command screen.

Table 9-21 Verification of the DEL Command

Test Item ID	C0502001
Purpose	Verifies that, when a parent directory does not have [wxd] in the ACL rights, the DEL command cannot delete files in the directory.
Initial Status	See Table 10-2 #244
Input Data	del (sp) u:\d1-05-02\rx.dir\del001
Expected Results	Failed to delete a file.
How to Verify	Check the results on the DEL command screen.

Test Item ID	C0502011
Purpose	Verifies that, when proper rights are set, the DEL command can delete files.
Initial Status	See Table 10-2 #246
Input Data	del (sp) u:\d1-05-02\rwxd.dir\del002
Expected Results	Successfully delete the file.
How to Verify	Check the results on the DEL command screen.

Test Item ID	C0502021
Purpose	Verifies that, when the designated file does not exist, the DEL command returns an error.
Initial Status	none
Input Data	del (sp) u:\d1-05-02\rwxd.dir\non.fil
Expected Results	error
How to Verify	Check the results on the DEL command screen.

Table 9-22 Verification of the RENAME Command

Test Item ID	C0503001
Purpose	Verifies that, when a parent directory does not have [wxid] in the ACL rights, the RENAME command cannot change the file names in the directory.
Initial Status	See Table 10-2 #249
Input Data	rename (sp) u:\d1-05-03\rx.dir\rename01 (sp) ename01r
Expected Results	Failed to change the file names.
How to Verify	Check the results on the RENAME command screen.

Test Item ID	C0503011
Purpose	Verifies that, when proper rights are set, the RENAME command can change the file names.
Initial Status	See Table 10-2 #251
Input Data	rename (sp) u:\d1-05-03\rwxid.dir\rename02 (sp) ename02r
Expected Results	Successfully changed the file names.
How to Verify	Check the results on the RENAME command screen.

Test Item ID	C0503021
Purpose	Verifies that, when the designated file does not exist, the RENAME command returns an error.
Initial Status	none
Input Data	rename (sp) u:\d1-05-03\rwxid.dir\non.fil (sp) new.fil
Expected Results	error
How to Verify	Check the results on the RENAME command screen.

Table 9-23 Verification of the MD Command

Test Item ID	C0504001
Purpose	Verifies that, when a parent directory does not have [wxi] in the ACL rights, the MD command cannot make a new directory.
Initial Status	See Table 10-2 #253
Input Data	md (sp) u:\d1-05-04\rx.dir\md001
Expected Results	Failed to create a new directory.
How to Verify	Check the results on the MD command screen.

Test Item ID	C0504011
Purpose	Verifies that, when proper rights are set, the MD command can make a new directory.
Initial Status	See Table 10-2 #254
Input Data	md (sp) u:\d1-05-04\rwxi.dir\md002
Expected Results	Successfully created a new directory.
How to Verify	Check the results on the MD command screen.

Test Item ID	C0504021
Purpose	Verifies that, when a same-named directory already exists, the MD command returns an error.
Initial Status	See Table 10-2 #255
Input Data	md (sp) u:\d1-05-04\md003
Expected Results	error
How to Verify	Check the results on the MD command screen.

Table 9-24 Verification of the RD Command

Test Item ID	C0505001
Purpose	Verifies that, when a parent directory does not have [wxd] in the ACL rights, the RD command cannot delete the directories in the parent directory.
Initial Status	See Table 10-2 #258
Input Data	rd (sp) u:\d1-05-05\rx.dir\rd001
Expected Results	Failed to delete directories.
How to Verify	Check the results on the RD command screen.

Test Item ID	C0505011
Purpose	Verifies that, when proper rights are set, the RD command can delete the directories.
Initial Status	See Table 10-2 #260
Input Data	rd (sp) u:\d1-05-05\rwxd.dir\rd002
Expected Results	Successfully deleted the directories.
How to Verify	Check the results on the RD command screen.

Test Item ID	C0505021
Purpose	Verifies that, when a non-existing file is designated, the MD command returns an error.
Initial Status	none
Input Data	rd (sp) u:\d1-05-05\rwxd.dir\non.dir
Expected Results	error
How to Verify	Check the results on the RD command screen.

Table 9-25 Verification of the File Write with the Redirection

Test Item ID	C0506001
Purpose	Verifies that a part of a file can be properly changed. (by executing the TYPE command to a text file, and redirecting the results to the file itself)
Initial Status	See Table 10-2 #262
Input Data	1:type (sp) u:\d1-05-06\part.fil>>u:\d1-05-06\part.fil 2:type (sp) u:\d1-05-06\part.fil
Expected Results	A part of the file is successfully changed.
How to Verify	Check the results on the TYPE command screen.

Table 9-26 Verification of the Contents Written

Test Item ID	C0507001
Purpose	To copy a local file to DFS, and verify that both files have the same contents.
Initial Status	none
Input Data	1:copy (sp) c:\dfactp\fc.fil (sp) u:\d1-05-07 2:wait (sp) 5 3:fc (sp) c:\dfactp\fc.fil (sp) u:\d1-05-07\fc.fil
Expected Results	Both files have the same contents.
How to Verify	Check the FC command screen to see that both files have the same contents.

6. Verification of the Files

Table 9-27 Verification of the File Write

Test Item ID	C0601001
Purpose	Verifies that, when proper rights are set, a binary file can be read.
Initial Status	See Table 10-2 #265
Input Data	1:OPEN (sp) FH1 (sp) u:\d1-06-01\brx.fil (sp) RO (sp) B (sp) N 2:READ (sp) FH1 3:CLOSE (sp) FH1
Expected Results	Successfully read a file.
How to Verify	Check that all the error numbers of the above Input Data are 0.

Test Item ID	C0601002
Purpose	Verifies that, when a file does not have [r] in the rights, the binary file cannot be read.
Initial Status	See Table 10-2 #266
Input Data	OPEN (sp) FH1 (sp) u:\d1-06-01\bw.fil (sp) RO (sp) B (sp) N
Expected Results	Failed to read the file.
How to Verify	Check that the error number for the above Input Data is 13.

Test Item ID	C0601011
Purpose	Verifies that, when proper rights are set, a text file can be read.
Initial Status	See Table 10-2 #267
Input Data	1:OPEN (sp) FH1 (sp) u:\d1-06-01\trx.fil (sp) RO (sp) T (sp) N 2:READ (sp) FH1 3:CLOSE (sp) FH1
Expected Results	Successfully input the file.
How to Verify	Check that all the error numbers of the above Input Data are 0.

Test Item ID	C0601012
Purpose	Verifies that, when a file does not have [r] in the rights, the text file cannot be read.
Initial Status	See Table 10-2 #268
Input Data	OPEN (sp) FH1 (sp) u:\d1-06-01\tw.fil (sp) RO (sp) T (sp) N
Expected Results	Failed to input the file.
How to Verify	Check that the error number for the above Input Data is 13.

Test Item ID	C0601021
Purpose	Verifies that the fopen function (r+ mode) can open a text file.
Initial Status	See Table 10-2 #269
Input Data	1:FOPEN (sp) FP1 (sp) u:\d1-06-01\tfopen.rp (sp) R+ (sp) T 2:FCLOSE (sp) FP1
Expected Results	Successfully opened the file.
How to Verify	Check that all the error numbers of the above Input Data are 0.

Test Item ID	C0601022
Purpose	Verifies that the fopen function (w+ mode) can open a text file.
Initial Status	See Table 10-2 #270
Input Data	1:FOPEN (sp) FP1 (sp) u:\d1-06-01\tfopen.wp (sp) W+ (sp) T 2:FCLOSE (sp) FP1
Expected Results	Successfully opened the file.
How to Verify	Check that all the error numbers of the above Input Data are 0.

Test Item ID	C0601023
Purpose	Verifies that the fopen function (a+ mode) can open a text file.
Initial Status	See Table 10-2 #271
Input Data	1:FOPEN (sp) FP1 (sp) u:\d1-06-01\tfopen.ap (sp) A+ (sp) T 2:FCLOSE (sp) FP1
Expected Results	Successfully opened the file.
How to Verify	Check that all the error numbers of the above Input Data are 0.

Test Item ID	C0601031
Purpose	Verifies that the fgetc function can read a text file.
Initial Status	See Table 10-2 #272
Input Data	1:FOPEN (sp) FP1 (sp) u:\d1-06-01\tfgetc (sp) R (sp) T 2:FGETC (sp) FP1 3:FCLOSE (sp) FP1
Expected Results	Successfully read the file.
How to Verify	Check that all the error numbers of the above Input Data are 0.

Test Item ID	C0601041
Purpose	Verifies that the fgets function can read a text file.
Initial Status	See Table 10-2 #273
Input Data	1:FOPEN (sp) FP1 (sp) u:\d1-06-01\fgets (sp) R (sp) T 2:FGETS (sp) FP1 3:FCLOSE (sp) FP1
Expected Results	Successfully read the file.
How to Verify	Check that all the error numbers of the above Input Data are 0.

Test Item ID	C0601042
Purpose	Verifies that the fread function can read a text file.
Initial Status	See Table 10-2 #274
Input Data	1:FOPEN (sp) FP1 (sp) u:\d1-06-01\fread (sp) R (sp) T 2:FREAD (sp) FP1 3:FCLOSE (sp) FP1
Expected Results	Successfully read the file.
How to Verify	Check that all the error numbers of the above Input Data are 0.

Table 9-28 Verification of Getting the File Information

Test Item ID	C0602001
Purpose	Verifies that the file information can be obtained.
Initial Status	See Table 10-2 #276
Input Data	STAT (sp) u:\d1-06-02\stat001.fil
Expected Results	The file information successfully obtained.
How to Verify	Check that the error number for the above Input Data is 0.

Test Item ID	C0602002
Purpose	Verifies that, when the designated file does not exist, the file information cannot be obtained.
Initial Status	none
Input Data	STAT (sp) u:\d1-06-02\non.fil
Expected Results	an error return
How to Verify	Check that the error number for the above Input Data is 2.

7. Verification of the File Update

Table 9-29 Verification of a File Creation/Modification

Test Item ID	C0701001
Purpose	Verifies that, when a parent directory does not have [wxi] in the ACL rights, a file cannot be created.
Initial Status	See Table 10-2 #278
Input Data	OPEN (sp) FH1 (sp) u:\d1-07-01\rx.dir\brdwt.new (sp) RW (sp) B (sp) CE
Expected Results	Failed to make a new file.
How to Verify	Check that the error number for the above Input Data is 13.

Test Item ID	C0701011
Purpose	Verifies that a newly made binary file can be opened with a read-only mode, and the file is writeable.
Initial Status	See Table 10-2 #279
Input Data	1:OPEN (sp) FH1 (sp) u:\d1-07-01\rwxi.dir\bwtonly.new (sp) WO (sp) B (sp) CE 2:WRITE (sp) FH1 3:CLOSE (sp) FH1
Expected Results	Successfully written onto the newly created file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0701012
Purpose	Verifies that a newly made binary file can be opened with a read/write mode, and the file is writeable.
Initial Status	See Table 10-2 #279
Input Data	1:OPEN (sp) FH1 (sp) u:\d1-07-01\rwxi.dir\brdwt.new (sp) RW (sp) B (sp) CE 2:WRITE (sp) FH1 3:CLOSE (sp) FH1
Expected Results	Successfully written onto the newly created file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0701021
Purpose	Verifies that a newly made text file can be opened with a write-only mode, and the file is writeable.
Initial Status	See Table 10-2 #279
Input Data	1:OPEN (sp) FH1 (sp) u:\d1-07-01\rwxi.dir\twtonly.new (sp) WO (sp) T (sp) CE 2:WRITE (sp) FH1 3:CLOSE (sp) FH1
Expected Results	Successfully written onto the newly created file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0701022
Purpose	Verifies that a newly made text file can be opened with a read/write mode, and the file is writeable.
Initial Status	See Table 10-2 #279
Input Data	1:OPEN (sp) FH1 (sp) u:\d1-07-01\rwxi.dir\trdwt.new (sp) RW (sp) T (sp) CE 2:WRITE (sp) FH1 3:CLOSE (sp) FH1
Expected Results	Successfully written onto the newly created file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Table 9-30 Verification of Writing to the Existing File

Test Item ID	C0702001
Purpose	Verifies that, when a binary file does not have [rw] in the ACL rights, the file cannot be opened with a write-only mode.
Initial Status	See Table 10-2 #281
Input Data	OPEN (sp) FH1 (sp) u:\d1-07-02\brx.w (sp) WO (sp) B (sp) T
Expected Results	Failed to open the file.
How to Verify	Check that the error number for the above Input Data is 13.

Test Item ID	C0702002
Purpose	Verifies that, when a binary file has [rw] in the ACL rights, the file can be opened with a write-only mode, and the file is writeable.
Initial Status	See Table 10-2 #282
Input Data	OPEN (sp) FH1 (sp) u:\d1-07-02\bw.w (sp) WO (sp) B (sp) T WRITE (sp) FH1 CLOSE (sp) FH1
Expected Results	Successfully written onto the file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0702011
Purpose	Verifies that, when a binary file does not have [rw] in the ACL rights, the file cannot be opened with a read/write mode.
Initial Status	See Table 10-2 #285
Input Data	OPEN (sp) FH1 (sp) u:\d1-07-02\brx.rw (sp) RW (sp) B (sp) T
Expected Results	Failed to open the file.
How to Verify	Check that the error number for the above Input Data is 13.

Test Item ID	C0702012
Purpose	Verifies that, when a binary file has [rw] in the ACL rights, the file can be opened with a read/write mode, and the file is writeable.
Initial Status	See Table 10-2 #286
Input Data	1:OPEN (sp) FH1 (sp) u:\d1-07-02\bw.rw (sp) RW (sp) B (sp) T 2:WRITE (sp) FH1 3:CLOSE (sp) FH1
Expected Results	Successfully written onto the file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0702021
Purpose	Verifies that, when a text file does not have [rw] in the ACL rights, the file cannot be opened with a write-only mode.
Initial Status	See Table 10-2 #283
Input Data	OPEN (sp) FH1 (sp) u:\d1-07-02\trx.w (sp) WO (sp) T (sp) T
Expected Results	Failed to open the file.
How to Verify	Check that the error number for the above Input Data is 13.

Test Item ID	C0702022
Purpose	Verifies that, when a text file has [rw] in the ACL rights, the file can be opened with a write-only mode, and the file is writeable.
Initial Status	See Table 10-2 #284
Input Data	1:OPEN (sp) FH1 (sp) u:\d1-07-02\tw.w (sp) WO (sp) T (sp) T 2:WRITE (sp) FH1 3:CLOSE (sp) FH1
Expected Results	Successfully written onto the file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0702031
Purpose	Verifies that, when a text file does not have [rw] in the ACL rights, the file cannot be opened with a read/write mode.
Initial Status	See Table 10-2 #287
Input Data	OPEN (sp) FH1 (sp) u:\d1-07-02\trx.rw (sp) RW (sp) T (sp) T
Expected Results	Failed to open the file.
How to Verify	Check that the error number for the above Input Data is 13.

Test Item ID	C0702032
Purpose	Verifies that, when a text file has [rw] in the ACL rights, the file can be opened with a read/write mode, and the file is writeable.
Initial Status	See Table 10-2 #288
Input Data	1:OPEN (sp) FH1 (sp) u:\d1-07-02\tw.rw (sp) RW (sp) T (sp) T 2:WRITE (sp) FH1 3:CLOSE (sp) FH1
Expected Results	Successfully written onto the file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0702041
Purpose	Verifies that a text file can be written with the fputc function.
Initial Status	See Table 10-2 #289
Input Data	1:FOPEN (sp) FP1 (sp) u:\d1-07-02\tfputc (sp) W+ (sp) T 2:FPUTC (sp) FP1 3:FCLOSE (sp) FP1
Expected Results	Successfully written onto the file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0702051
Purpose	Verifies that a text file can be written with the fputs function.
Initial Status	See Table 10-2 #290
Input Data	1:FOPEN (sp) FP1 (sp) u:\d1-07-02\tfputs (sp) W+ (sp) T 2:FPUTS (sp) FP1 3:FCLOSE (sp) FP1
Expected Results	Successfully written onto the file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0702061
Purpose	Verifies that a text file can be written with the fwrite function.
Initial Status	See Table 10-2 #291
Input Data	1:FOPEN (sp) FP1 (sp) u:\d1-07-02\tfwrite (sp) W+ (sp) T 2:FWRITE (sp) FP1 3:FCLOSE (sp) FP1
Expected Results	Successfully written onto the file.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Table 9-31 Verification of the File Delete

Test Item ID	C0703001
Purpose	Verifies that, when a parent directory does not have [wxd] in the ACL rights, the file in the directory cannot be deleted.
Initial Status	See Table 10-2 #294
Input Data	UNLINK (sp) u:\d1-07-03\rx.dir\del001
Expected Results	Failed to delete the file.
How to Verify	Check that the error number for the above Input Data is 0.

Test Item ID	C0703011
Purpose	Verifies that, when proper rights are set, a file can be deleted.
Initial Status	See Table 10-2 #296
Input Data	UNLINK (sp) u:\d1-07-03\rwxd.dir\del002
Expected Results	The file successfully deleted.
How to Verify	Check that the error number for the above Input Data is 0.

Test Item ID	C0703021
Purpose	Verifies that, when the designated file does not exist, the file cannot be deleted.
Initial Status	none
Input Data	UNLINK (sp) u:\d1-07-03\rwxd.dir\non.fil
Expected Results	Failed to delete the file.
How to Verify	Check that the error number for the above Input Data is 2.

Table 9-32 Verification of the File Rename

Test Item ID	C0704001
Purpose	Verifies that, when a parent directory does not have [wxid] in the ACL rights, the file in the directory cannot be renamed.
Initial Status	See Table 10-2 #299
Input Data	1:CHDIR (sp) u:\d1-07-04\rx.dir 2:RENAME (sp) rename01 (sp) ename01r
Expected Results	Failed to rename the file.
How to Verify	Check that the error numbers for the above Input Data are as follows: 1: 0 2: 13

Test Item ID	C0704011
Purpose	Verifies that, when proper rights are set, a file can be renamed.
Initial Status	See Table 10-2 #301
Input Data	1:CHDIR (sp) u:\d1-07-04\rwxid.dir 2:RENAME (sp) rename02 (sp) ename02r
Expected Results	The file successfully renamed.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0704021
Purpose	Verifies that, when the designated file does not exist, the file rename fails.
Initial Status	none
Input Data	1:CHDIR (sp) u:\d1-07-04\rwxid.dir 2:RENAME (sp) non.fil (sp) fil.non
Expected Results	Failed to rename the file.
How to Verify	Check that the error numbers for the above Input Data are as follows: 1: 0 2: 2

Test Item ID	C0704022
Purpose	Verifies that, if a file with the same name exists, a file cannot be renamed to the name.
Initial Status	See Table 10-2 #302, 303
Input Data	1:CHDIR (sp) u:\d1-07-04\rwxid.dir 2:RENAME (sp) rename03 (sp) rename04
Expected Results	Failed to rename the file.
How to Verify	Check that the error numbers for the above Input Data are as follows: 1: 0 2: 13

Table 9-33 Verification of Setting the File Update Time

Test Item ID	C0705001
Purpose	Verifies that the file update time can be properly set.
Initial Status	See Table 10-2 #305
Input Data	UTIME (sp) u:\d1-07-05\utime001
Expected Results	The file update time successfully set.
How to Verify	Check that the error number for the above Input Data is 0.

Test Item ID	C0705002
Purpose	Verifies that, when a file does not have [w] in the ACL rights, the file update time cannot be set.
Initial Status	See Table 10-2 #306
Input Data	UTIME (sp) u:\d1-07-05\utime002
Expected Results	Failed to set the file update time.
How to Verify	Check that the error number for the above Input Data is 13.

Test Item ID	C0705003
Purpose	Verifies that, when the designated file does not exist, the file update time cannot be set.
Initial Status	none
Input Data	UTIME (sp) u:\d1-07-05\non.fil
Expected Results	an error return
How to Verify	Check that the error number for the above Input Data is 2.

8. Verification of the Directory Update

Table 9-34 Verification of the Directory Make

Test Item ID	C0801001
Purpose	Verifies that, when a parent directory does not have [wxi] in the ACL rights, directories cannot be created under the parent directory.
Initial Status	See Table 10-2 #308
Input Data	MKDIR (sp) u:\d1-08-01\rx.dir\md001
Expected Results	Failed to create directories.
How to Verify	Check that the error number for the above Input Data is 13.

Test Item ID	C0801011
Purpose	Verifies that, when proper rights are set, directories can be created.
Initial Status	See Table 10-2 309
Input Data	MKDIR (sp) u:\d1-08-01\rwxi.dir\md002
Expected Results	A directory successfully made.
How to Verify	Check that the error number for the above Input Data is 0.

Test Item ID	C0801021
Purpose	Verifies that, when a directory with the same name exists, a new directory with the same name cannot be created.
Initial Status	See Table 10-2 #310
Input Data	MKDIR (sp) u:\d1-08-01\md003
Expected Results	Failed to create directories.
How to Verify	Check that the error number for the above Input Data is 13.

Table 9-35 Verification of the Directory Delete

Test Item ID	C0802001
Purpose	Verifies that, when a parent directory does not have [wxd] in the ACL rights, directories cannot be deleted under the parent directory.
Initial Status	See Table 10-2 #313
Input Data	RMDIR (sp) u:\d1-08-02\rx.dir\rd001
Expected Results	Failed to delete the directory.
How to Verify	Check that the error number for the above Input Data is 13.

Test Item ID	C0802011
Purpose	Verifies that, when proper rights are set, directories can be deleted.
Initial Status	See Table 10-2 #315
Input Data	RMDIR (sp) u:\d1-08-02\rwxd.dir\rd002
Expected Results	The directory successfully deleted.
How to Verify	Check that the error number for the above Input Data is 0.

Test Item ID	C0802021
Purpose	Verifies that, when the designated directory does not exist, the attempt to delete the directory fails.
Initial Status	none
Input Data	RMDIR (sp) u:\d1-08-02\rwxd.dir\non.dir
Expected Results	Failed to delete the directory.
How to Verify	Check that the error number for the above Input Data is 2.

Table 9-36 Verification of the Directory Rename

Test Item ID	C0803001
Purpose	Verifies that, when a parent directory does not have [wxid] in the ACL rights, directories cannot be renamed under the parent directory.
Initial Status	See Table 10-2 #318
Input Data	1:CHDIR (sp) u:\d1-08-03\rx.dir 2:RENAME (sp) rendir01 (sp) endir01r
Expected Results	Failed to rename the directory.
How to Verify	Check that the error numbers for the above Input Data are as follows: 1: 0 2: 13

Test Item ID	C0803011
Purpose	Verifies that, when proper rights are set, directories can be renamed.
Initial Status	See Table 10-2 #320
Input Data	1:CHDIR (sp) u:\d1-08-03\rwxid.dir 2:RENAME (sp) rendir02 (sp) endir02r
Expected Results	The directory name successfully renamed.
How to Verify	Check that all the error numbers for the above Input Data are 0.

Test Item ID	C0803021
Purpose	Verifies that, when the designated directory does not exist, the attempt to rename the directory fails.
Initial Status	none
Input Data	1:CHDIR (sp) u:\d1-08-03\rwxid.dir 2:RENAME (sp) non.dir (sp) dir.non
Expected Results	Failed to rename the directory.
How to Verify	Check that the error numbers for the above Input Data are as follows: 1: 0 2: 2

Test Item ID	C0803022
Purpose	Verifies that, when a same-named directory exists, the attempt to rename a directory fails.
Initial Status	See Table 10-2 #321 ,322
Input Data	1:CHDIR (sp) u:\d1-08-03\rwxid.dir 2:RENAME (sp) rendir03 (sp) rendir04
Expected Results	Failed to rename the directory.
How to Verify	Check that the error numbers for the above Input Data are as follows: 1: 0 2: 13

9. Verification of the DCE Login

Table 9-37 Verification of the DCE Password Change

Test Item ID	C0901001
Purpose	Verifies that, when an old DCE password is invalid, the DSETPASS command does not change the password.
Initial Status	The contents of password.001 are as follows: 1: 1111111 2: abc 3: abc
Input Data	dsetpass (sp) < (sp) password.001
Expected Results	Failed to change the DCE password.
How to Verify	Check the results on the DSETPASS command screen.

Test Item ID	C0901002
Purpose	Verifies that, when a new DCE password is invalid, the DSETPASS command does not change the password.
Initial Status	The contents of password.002 are as follows: 1: dfauser0 2: abc 3: abcdefg
Input Data	dsetpass (sp) < (sp) password.002
Expected Results	Failed to change the DCE password.
How to Verify	Check the results on the DSETPASS command screen.

Test Item ID	C0901003
Purpose	Verifies that the DSETPASS command changes the password.
Initial Status	The contents of password.003 are as follows: 1: dfauser0 2: dfauser0 3: dfauser0
Input Data	dsetpass (sp) < (sp) password.003
Expected Results	The DCE password was successfully changed.
How to Verify	Check the results on the DSETPASS command screen.

Chapter 10. DFS Directory Structure

Table 10-1 Uses of the directories

#	Directory Name	Purpose	
		1st Level Verifies	2nd Level Verifies
1	d1-01-01	DFS volume mapping	File name conversion (no conversion)
2	d1-01-02		Directory name conversion (no conversion)
3	d1-01-03		File name conversion (with conversion)
4	d1-01-04		Directory name conversion (with conversion)
5	d1-01-05		File size
6	d1-01-06		Mapping to the network drives (using NetWare commands)
7	d1-01-07		Mapping to the network drives (using NetWare APIs)
8	d1-02-01	Trustee reference	DTLIST command
9	d1-02-02		DRIGHT command
10	d1-02-03		DLISTDIR command
11	d1-02-04		DNDIR command (including the testing for time stamp)
12	d1-03-01	Trustee change	DREMOVE command
13	d1-03-02		DGRANT command
14	d1-03-03		DREVOKE command
15	d1-04-01	MS-DOS compatibility (DFS directory structure unchanged)	FC command
16	d1-04-02		FIND command
17	d1-04-03		TYPE command
18	d1-04-04		Executable file
19	d1-05-01	MS-DOS compatibility (DFS directory structure changed)	COPY command
20	d1-05-99		Copy destination
21	d1-05-02		DEL command
22	d1-05-03		RENAME command
23	d1-05-04		MD command
24	d1-05-05		RD command
25	d1-05-06		File write with the redirection
26	d1-05-07		contents are written
27	d1-06-01	File reference	File write
28	d1-06-02		Getting the file information
29	d1-07-01	File change	File creation/modification
30	d1-07-02		Writing to the existing file
31	d1-07-03		File deletion
32	d1-07-04		File rename
33	d1-07-05		Setting the file update time
34	d1-08-01	Directory change	Directory make
35	d1-08-02		Directory delete
36	d1-08-03		Directory rename

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
1	dir	1	d1-01-01	-	-	-	DCEUSER1:[rwxcd]	DCEGROUP1:[rwxcd]	DCEUSER0:[rwxcd]	[-----]	[rwxcd]
2	file	2	a	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
3	file	2	12	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
4	file	2	a2345678	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
5	file	2	a.a	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
6	file	2	a.12	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
7	file	2	a.a23	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
8	file	2	aaaaaaaa8.aa3	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
9	dir	1	d1-01-02	-	-	-	DCEUSER1:[rwxcd]	DCEGROUP1:[rwxcd]	DCEUSER0:[rwxcd]	[-----]	[rwxcd]
10	dir	2	a	-	-	-	DCEUSER1:[rwxcd]	DCEGROUP1:[rwxcd]	DCEUSER0:[rwxcd]	[-----]	[rwxcd]
11	dir	2	12	-	-	-	DCEUSER1:[rwxcd]	DCEGROUP1:[rwxcd]	DCEUSER0:[rwxcd]	[-----]	[rwxcd]
12	dir	2	a2345678	-	-	-	DCEUSER1:[rwxcd]	DCEGROUP1:[rwxcd]	DCEUSER0:[rwxcd]	[-----]	[rwxcd]
13	dir	2	a.a	-	-	-	DCEUSER1:[rwxcd]	DCEGROUP1:[rwxcd]	DCEUSER0:[rwxcd]	[-----]	[rwxcd]
14	dir	2	a.12	-	-	-	DCEUSER1:[rwxcd]	DCEGROUP1:[rwxcd]	DCEUSER0:[rwxcd]	[-----]	[rwxcd]
15	dir	2	a.a23	-	-	-	DCEUSER1:[rwxcd]	DCEGROUP1:[rwxcd]	DCEUSER0:[rwxcd]	[-----]	[rwxcd]
16	dir	2	aaaaaaaa8.aa3	-	-	-	DCEUSER1:[rwxcd]	DCEGROUP1:[rwxcd]	DCEUSER0:[rwxcd]	[-----]	[rwxcd]
17	dir	1	d1-01-03	-	-	-	DCEUSER1:[rwxcd]	DCEGROUP1:[rwxcd]	DCEUSER0:[rwxcd]	[-----]	[rwxcd]
18	file	2	UPPER	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
19	file	2	upper.EXT	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
20	file	2	verylongentry	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
21	file	2	verylong.extension	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
22	file	2	.login	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
23	file	2	123.456.789.0	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
24	file	2	<*\?>	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
25	file	2	con	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
26	dir	1	d1-01-04	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
27	dir	2	UPPER	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
28	dir	2	upper.EXT	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
29	dir	2	verylongentry	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
30	dir	2	verylong.extension	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
31	dir	2	.login	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
32	dir	2	123.456.789.0	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
33	dir	2	<*\?>	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
34	dir	2	con	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
35	dir	1	d1-01-05	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
36	file	2	size0	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
37	file	2	size1k	1,024	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
38	file	2	size4k	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
39	file	2	size10k	10,240	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
40	file	2	size40k	40,960	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
41	file	2	size100k	102,400	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
42	file	2	size400k	409,600	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
43	file	2	size1m	1,048,576	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
44	dir	1	d1-01-06	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
45	dir	2	dfatst01	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
46	dir	3	dfatst02	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
47	dir	4	dfatst03	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
48	dir	5	dfatst04	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
49	dir	6	dfatst05	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
50	dir	7	dfatst06	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
51	dir	8	dfatst07	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
52	dir	9	dfatst08	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
53	dir	10	dfatst09	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
54	dir	11	dfatst10	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
55	dir	12	dfatst11	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
56	dir	13	666666	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
57	dir	13	777777	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
58	dir	1	d1-01-07	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
59	dir	2	dfatst01	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
60	dir	3	dfatst02	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
61	dir	4	dfatst03	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
62	dir	5	dfatst04	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
63	dir	6	dfatst05	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
64	dir	7	dfatst06	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
65	dir	8	dfatst07	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
66	dir	9	dfatst08	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
67	dir	10	dfatst09	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
68	dir	11	dfatst10	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
69	dir	12	dfatst11	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
70	dir	13	666666	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
71	dir	13	777777	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
72	dir	1	d1-02-01	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
73	dir	2	for_user	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
74	file	3	nil.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[----]	[----]	[rwx]
75	file	3	rx.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
76	file	3	w.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[-w--]	[----]	[rwx]
77	file	3	rxw.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-]	[----]	[rwx]
78	file	3	c.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
79	dir	3	nil.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[-----]	[-----]	[rwxci]
80	dir	3	rx.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[r-x--]	[-----]	[rwxci]
81	dir	3	wxi.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[-wx-i-]	[-----]	[rwxci]
82	dir	3	wxd.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[-wx--d]	[-----]	[rwxci]
83	dir	3	wxid.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[-wx-id]	[-----]	[rwxci]
84	dir	3	c.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
85	dir	2	for_grp	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
86	file	3	nil.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx] DCEGROUP0:[----]	[----]	[rwx]
87	file	3	rx.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx] DCEGROUP0:[r-x-]	[----]	[rwx]
88	file	3	w.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx] DCEGROUP0:[-w--]	[----]	[rwx]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
89	file	3	rwxfil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx] DCEGROUP0:[rwx-]	[----]	[rwx]
90	file	3	c.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx] DCEGROUP0:[--c]	[----]	[rwx]
91	dir	3	nil.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid] DCEGROUP0:[-----]	[-----]	[rwxid]
92	dir	3	rx.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid] DCEGROUP0: [r-x--]	[-----]	[rwxid]
93	dir	3	wxi.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid] DCEGROUP0: [-wx-i-]	[-----]	[rwxid]
94	dir	3	wxd.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid] DCEGROUP0: [-wx-d]	[-----]	[rwxid]
95	dir	3	wxid.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid] DCEGROUP0: [-wx-id]	[-----]	[rwxid]
96	dir	3	c.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid] DCEGROUP0:[--c--]	[-----]	[rwxid]
97	dir	1	d1-02-02	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
98	dir	2	equiva.off	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
99	dir	3	trustee.on	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
100	file	4	user_obj.fil	0	-	-	DCEUSER0:[r-xc]	DCEGROUP1:[rwx]	-	[----]	[----]
101	file	4	rwxf1.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-]	[----]	[rwx]
102	file	4	rwxf2.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-]	[----]	[r-xc]
103	dir	4	user_obj.dir	-	-	-	DCEUSER0:[r-xc--]	DCEGROUP1:[rwxid]	-	[-----]	[-----]
104	dir	4	rwxfid1.dir	0	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwx-id]	[----]	[rwxid]
105	dir	4	rwxfid2.dir	0	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwx-id]	[----]	[r--c--]
106	dir	3	trustee.off	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
107	file	4	nil.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	-	[r-x-]	[rwx]
108	dir	4	nil.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	-	[-wx-i-]	[rwxid]
109	dir	2	equiva.on	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
110	dir	3	trustee.on	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
111	file	4	rxw1.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-] DCEGROUP0: [rwx]	[----]	[rwx]
112	file	4	rxw2.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-] DCEGROUP0: [rwx]	[----]	[r-x]
113	dir	4	rxwid1.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwx-id] DCEGROUP0: [rwxid]	[-----]	[rwxid]
114	dir	4	rxwid2.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwx-id] DCEGROUP0: [rwxid]	[-----]	[r--c--]
115	file	4	grp_obj.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP0:[rwx]	-	[----]	[r-x]
116	dir	4	grp_obj.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP0:[rwxid]	-	[-----]	[r-xc--]
117	dir	3	trustee.off	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
118	file	4	nil.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEGROUP0:[r-x-]	[----]	[rwx]
119	dir	4	nil.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEGROUP0: [-wx-i-]	[-----]	[rwxid]
120	dir	1	d1-02-03	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
121	dir	2	rxwid.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwx-id]	[-----]	[rwxid]
122	dir	3	rx.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[r-x--]	[-----]	[rwxid]
123	dir	4	wxi.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[-wx-i-]	[-----]	[rwxid]
124	dir	4	wxd.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[-wx--d]	[-----]	[rwxid]
125	dir	3	rxwd.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwx--d]	[-----]	[rwxid]
126	dir	4	wxid.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[-wx-id]	[-----]	[rwxid]
127	dir	2	rx.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEGROUP0:[r-x-]	[-----]	[rwxid]
128	dir	1	d1-02-04	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
129	dir	2	rx.dir	-	TUE aug 01 11:00 1995	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[r-x-]	[-----]	[rwxid]
130	dir	2	wxi.dir	-	TUE aug 01 11:00 1995	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[-wx-i-]	[-----]	[rwxid]
131	dir	2	wxd.dir	-	TUE aug 01 11:00 1995	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[-wx--d]	[-----]	[rwxid]
132	file	2	size0	0	TUE aug 01 11:00 1995	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
133	file	2	size1k	1,024	TUE aug 01 11:00 1995	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
134	file	2	size4k	4,096	TUE aug 01 11:00 1995	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
135	dir	1	d1-03-01	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
136	dir	2	for_user	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
137	file	3	c.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
138	dir	3	c.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c-]	[-----]	[rwx]
139	file	3	rx.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
140	dir	3	rx.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[-----]	[rwx]
141	dir	2	for_grp	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
142	file	3	c.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c] DCEGROUP0: [rwx]	[----]	[rwx]
143	dir	3	c.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c-] DCEGROUP0: [rwx]	[-----]	[rwx]
144	file	3	rx.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-] DCEGROUP0: [rwx]	[----]	[rwx]
145	dir	3	rx.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-] DCEGROUP0: [rwx]	[-----]	[rwx]
146	file	2	user_obj.fil	0	-	-	DCEUSER0:[rwx]	DCEGROUP1:[rwx]	-	[----]	[rwx]
147	file	2	grp_obj.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP0:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
148	file	2	othr_obj.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
149	file	2	mask_obj.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
150	dir	2	user_obj.dir	-	-	-	DCEUSER0:[rwx]	DCEGROUP1:[rwx]	-	[-----]	[rwx]
151	dir	2	grp_obj.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP0:[rwx]	DCEUSER0:[---c-]	[-----]	[rwx]
152	dir	2	othr_obj.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c-]	[-----]	[rwx]
153	dir	2	mask_obj.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c-]	[-----]	[rwx]
154	dir	1	d1-03-02	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
155	dir	2	for_user	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
156	file	3	c1.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
157	file	3	c2.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
158	file	3	c3.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
159	dir	3	c1.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
160	dir	3	c2.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
161	dir	3	c3.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
162	dir	3	c4.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
163	dir	3	c5.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
164	file	3	rx.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
165	dir	3	rx.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[r-x--]	[-----]	[rwxci]
166	dir	2	for_grp	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
167	file	3	c1.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
168	file	3	c2.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
169	file	3	c3.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
170	dir	3	c1.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
171	dir	3	c2.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
172	dir	3	c3.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
173	dir	3	c4.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
174	dir	3	c5.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[---c-]	[-----]	[rwxci]
175	file	3	rx.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
176	dir	3	rx.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[r-x--]	[-----]	[rwxci]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
177	file	2	othr_obj.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[r-x-]	[rwx]
178	file	2	othr_ng.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[r-x-]	[rwx]
179	file	2	mask_obj.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[r-x]
180	file	2	mask_ng.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[r-x]
181	file	2	user_obj.fil	0	-	-	DCEUSER0:[---c]	DCEGROUP1:[rwx]	-	[----]	[rwx]
182	file	2	grp_obj.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP0:[r-x-]	DCEUSER0:[---c]	[----]	[rwx]
183	file	2	grp_ng.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP0:[r-x-]	DCEUSER0:[r-x-]	[----]	[rwx]
184	dir	2	othr_obj.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[---c-]	[r-x--]	[rwxid]
185	dir	2	othr_ng.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[r-x--]	[r-x--]	[rwxid]
186	dir	2	mask_obj.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[---c-]	[-----]	[r-xc-]
187	dir	2	mask_ng.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[r-x--]	[-----]	[r-xc-]
188	dir	2	user_obj.dir	-	-	-	DCEUSER0:[---c-]	DCEGROUP1:[rwxid]	-	[-----]	[rwxid]
189	dir	2	grp_obj.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP0:[r-x--]	DCEUSER0:[---c-]	[-----]	[rwxid]
190	dir	2	grp_ng.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP0:[r-x--]	DCEUSER0:[r-x--]	[-----]	[rwxid]
191	dir	1	d1-03-03	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
192	dir	2	for_user	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
193	file	3	all.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
194	dir	3	all.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
195	file	3	rwx.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-]	[----]	[rwx]
196	dir	3	rwxid.dir	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwx-id]	[-----]	[rwxid]
197	dir	2	for_grp	-	-	-	DCEUSER1:[rwxid]	DCEGROUP1:[rwxid]	DCEUSER0:[rwxid]	[-----]	[rwxid]
198	file	3	all.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c] DCEGROUP0: [rwx]	[----]	[rwx]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
199	dir	3	all_dir	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[---c-] DCEGROUP0: [rwxcid]	[-----]	[rwxcid]
200	file	3	rwx.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-] DCEGROUP0: [rwx]	[----]	[rwx]
201	dir	3	rwxid_dir	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwx-id] DCEGROUP0: [rwxcid]	[-----]	[rwxcid]
202	file	2	othr_obj.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[rwx]	[rwx]
203	file	2	othr_ng.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x]	[rwx]	[rwx]
204	file	2	mask_obj.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
205	file	2	mask_ng.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x]	[----]	[rwx]
206	file	2	user_obj.fil	0	-	-	DCEUSER0:[rwx]	DCEGROUP1:[rwx]	-	[----]	[rwx]
207	file	2	grp_obj.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP0:[rwx]	DCEUSER0:[---c]	[----]	[rwx]
208	file	2	grp_ng.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP0:[rwx]	DCEUSER0:[r-x]	[----]	[rwx]
209	dir	2	othr_obj_dir	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[---c-]	[rwxcid]	[rwxcid]
210	dir	2	othr_ng_dir	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[r-x-]	[rwxcid]	[rwxcid]
211	dir	2	mask_obj_dir	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[---c-]	[-----]	[rwxcid]
212	dir	2	mask_ng_dir	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[r-x-]	[-----]	[rwxcid]
213	dir	2	user_obj_dir	-	-	-	DCEUSER0:[rwxcid]	DCEGROUP1:[rwxcid]	-	[-----]	[rwxcid]
214	dir	2	grp_obj_dir	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP0:[rwxcid]	DCEUSER0:[---c-]	[-----]	[rwxcid]
215	dir	2	grp_ng_dir	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP0:[rwxcid]	DCEUSER0:[r-x-]	[-----]	[rwxcid]
216	file	2	rem_c.fil	0	-	-	DCEUSER0:[rwx]	DCEGROUP1:[rwx]	-	[----]	[rwx]
217	dir	2	rem_c_dir	-	-	-	DCEUSER0:[rwxcid]	DCEGROUP1:[rwxcid]	-	[-----]	[rwxcid]
218	dir	1	d1-04-01	-	-	-	DCEUSER1:[rwxcid]	DCEGROUP1:[rwxcid]	DCEUSER0:[rwxcid]	[-----]	[rwxcid]
219	file	2	fc001	10	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
220	file	2	fc002	10	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
221	file	2	fc003	10	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
222	file	2	fc004	20	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
223	dir	1	d1-04-02	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
224	file	2	find001	10	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
225	dir	1	d1-04-03	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
226	file	2	type001	10	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
227	dir	1	d1-04-04	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
228	dir	1	d1-05-01	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
229	dir	2	rx.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x--]	[-----]	[rwx]
230	file	3	nil.fil	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	-	[----]	[rwx]
231	file	3	rx.fil	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
232	file	3	rx.fil	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-]	[----]	[rwx]
233	dir	2	c.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[--c-]	[-----]	[rwx]
234	file	3	rx.fil	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-]	[----]	[rwx]
235	dir	1	d1-05-99	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
236	dir	2	create.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
237	dir	3	rx.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x--]	[-----]	[rwx]
238	dir	3	rx.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-i]	[-----]	[rwx]
239	dir	2	trunc.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
240	file	3	rx.fil	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-]	[----]	[rwx]
241	file	3	rx.fil	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
242	dir	1	d1-05-02	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
243	dir	2	rx.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[r-x---	[-----]	[rwxci]
244	file	3	del001	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
245	dir	2	rx.d.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwx--d]	[-----]	[rwxci]
246	file	3	del002	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
247	dir	1	d1-05-03	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
248	dir	2	rx.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[r-x---	[-----]	[rwxci]
249	file	3	rename01	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
250	dir	2	rxid.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwx-id]	[-----]	[rwxci]
251	file	3	rename02	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
252	dir	1	d1-05-04	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
253	dir	2	rx.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[r-x---	[-----]	[rwxci]
254	dir	2	rxid.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwx-i-]	[-----]	[rwxci]
255	dir	2	md003	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
256	dir	1	d1-05-05	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
257	dir	2	rx.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[r-x---	[-----]	[rwxci]
258	dir	3	rd001	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
259	dir	2	rx.d.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwx--d]	[-----]	[rwxci]
260	dir	3	rd002	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
261	dir	1	d1-05-06	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
262	file	2	part.fil	10	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
263	dir	1	d1-05-07	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
264	dir	1	d1-06-01	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
265	file	2	brx.fil	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
266	file	2	bw.fil	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[-w--]	[----]	[rwx]
267	file	2	trx.fil	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
268	file	2	tw.fil	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[-w--]	[----]	[rwx]
269	file	2	tfopen.rp	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
270	file	2	tfopen.wp	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
271	file	2	tfopen.ap	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
272	file	2	tfgetc	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
273	file	2	tfgets	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
274	file	2	tfread	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
275	dir	1	d1-06-02	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
276	file	2	stat001.fil	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
277	dir	1	d1-07-01	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
278	dir	2	rx.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x--]	[-----]	[rwx]
279	dir	2	rx.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-i-]	[-----]	[rwx]
280	dir	1	d1-07-02	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
281	file	2	brx.w	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
282	file	2	bw.w	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rw--]	[----]	[rwx]
283	file	2	trx.w	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
284	file	2	tw.w	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rw--]	[----]	[rwx]
285	file	2	brx.rw	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
286	file	2	bw.rw	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rw--]	[----]	[rwx]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
287	file	2	trx.rw	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
288	file	2	tw.rw	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rw--]	[----]	[rwx]
289	file	2	tfputc	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
290	file	2	tfputs	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
291	file	2	tfwrite	4,096	-	text	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
292	dir	1	d1-07-03	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
293	dir	2	rx.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x--]	[-----]	[rwx]
294	file	3	del001	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
295	dir	2	rxw.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx--d]	[-----]	[rwx]
296	file	3	del002	4,096	-	binary	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
297	dir	1	d1-07-04	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
298	dir	2	rx.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x--]	[-----]	[rwx]
299	file	3	rename01	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
300	dir	2	rxw.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx-id]	[-----]	[rwx]
301	file	3	rename02	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
302	file	3	rename03	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
303	file	3	rename04	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
304	dir	1	d1-07-05	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
305	file	2	utime001	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[----]	[rwx]
306	file	2	utime002	0	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x-]	[----]	[rwx]
307	dir	1	d1-08-01	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[rwx]	[-----]	[rwx]
308	dir	2	rx.dir	-	-	-	DCEUSER1:[rwx]	DCEGROUP1:[rwx]	DCEUSER0:[r-x--]	[-----]	[rwx]

#	file or dir	Level	Name	File Size (byte)	Time Stamp	File Type	Owner (user_obj)	Owner Group (group_obj)	ACL Rights	other_obj	mask_obj
309	dir	2	rxix.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwx-i-]	[-----]	[rwxci]
310	dir	2	md003	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
311	dir	1	d1-08-02	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
312	dir	2	rx.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[r-x---	[-----]	[rwxci]
313	dir	3	rd001	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
314	dir	2	rxix.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwx--d]	[-----]	[rwxci]
315	dir	3	rd002	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
316	dir	1	d1-08-03	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
317	dir	2	rx.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[r-x---	[-----]	[rwxci]
318	dir	3	rendir01	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
319	dir	2	rxix.dir	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwx-id]	[-----]	[rwxci]
320	dir	3	rendir02	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
321	dir	3	rendir03	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]
322	dir	3	rendir04	-	-	-	DCEUSER1:[rwxci]	DCEGROUP1:[rwxci]	DCEUSER0:[rwxci]	[-----]	[rwxci]