DFS Client for Windows NT™ Release Notes

Audience	Users of the DFS Client for Windows NT who are either familiar with Microsoft® Windows NT or have a basic knowledge of using windows applications.
Purpose	To list information specific to the 1.0.3a release of the DFS Client for Windows NT and to document changes and additions to the DFS Client that occurred after the *DFS Client for Windows NT™ System Guide* was completed.
Production Notes	Text Microsoft Write
Research	Discussion with the developers and experimentation with the DFS Client.

Release Notes: DFS Client for Windows NT™, Version 1.0.3a

Transarc Corporation's Distributed File Service (DFS) is an advanced file system with many powerful features. DFS Client 1.0.3a extends these capabilities for the first time to the Windows NT operating system.

Compatibility Issues

Version 1.0.3a of DFS Client for Windows NT has the following requirements:

Operating System:	Windows NT, version 3.51 (from Microsoft® Corporation)
Operating System Updates:	Service Pack 2 or higher (from Microsoft Corporation)
DCE Product:	Digital™ DCE for Windows NT, version 1.1a or higher This version of the Distributed Computing Environment (DCE) is based on DCE version 1.0.3 from the Open Software Foundation (OSF).
DFS Server Machines:	DFS Client is compatible with servers running DCE 1.0.3a or higher.

Administrative Issues

If your site includes a large number of machines running the DFS Client for Windows NT, you may want to increase the number of secondary interface threads on each File Exporter machine. This is because the DFS Client for Windows NT uses secondary interface threads more often than the UNIX DFS Client. Increasing the number of secondary interface threads can improve overall DFS performance.

You can direct a File Exporter to create more secondary threads by adding the **-tokenprocs** option to the **fxd** line in the File Exporter start-up. This option specifies the number of secondary interface threads to create; do not specify more than 4 threads. For more information see the *OSF DCE DFS Administration Guide and Reference*.

User Issues

Where to Look If You Have a Problem with DFS

If you have a problem with DFS, you can look in the Windows NT Event Log. DFS logs events associated with its user-space functions in the **Application** log. Each DFS event in the **Application** log is marked with the source **TransarcDFSClientHelper**. DFS logs events associated with its kernel functions in the **System** log. Each DFS event in the **System** log is marked with the source **TransarcDFSClient**. Most of the events in the Windows NT Event Log are informational; however, some errors can appear. You can also look in the file **dfslog.txt** in the TransarcDFS directory by going into the DFS Client Configuration Application on the Control Panel. For more information on DFS Cache Manager logging and instructions on reviewing the log file, see pages 8-8 through 8-12 of the *DFS Client for Windows NT System Guide*.

Do Not Stop and Restart the DFS Client Helper Process

Disregard any instructions to restart your DFS Client as described on pages 3-6 and 3-7 of the *DFS Client for Windows NT System Guide*. Due to a DFS server limitation, stopping and restarting your DFS Client in this manner can prevent DFS servers from contacting your DFS Client. Other users may not be able to access files because the server cannot revoke your tokens. If you are instructed to restart your DFS Client, restart Windows NT. Restarting Windows NT automatically restarts your DFS Client in a way that does not prevent communication with DFS servers.

Setting the Chunk Size

The chunk size is the unit of transfer the DFS Cache Manager uses to fetch data for the cache. For example, if the chunk size is 4 KB (the default value), the DFS Cache Manager requests data from File Servers in 4 KB chunks. You can modify the chunk size.

The DFS Cache Manager divides the cache file into sections based on the chunk size and stores each chunk of data in one section of the cache. A large chunk size makes data transfer more efficient, but it decreases the number of sections for data storage in the cache.

A cache chunk cannot store data from more than one file. When a file fetched from a File Server is smaller than the chunk size, the rest of that chunk is unused. If most files fetched from the File Server are smaller than the chunk size, cache space is wasted.

To change the chunk size:

1. Double-click the DFS icon in the Control Panel window.

2. Select General from the Transarc DFS Client dialog box.

   The General tab appears. The Chunk Size box displays the current chunk size in KB.

3. Select the desired chunk size in the Chunk Size drop down list box. Acceptable values are 4, 8, 16, 32, 64, 128, or 256 KB.

4. Choose the OK button to save changes to the chunk size and to close the Transarc DFS Client dialog box. You must restart Windows NT for these changes to take effect. DFS displays a dialog box asking if you want to restart now.

   - Choose the Don't restart now button if you do not want to restart your machine now.

   - Choose the Restart now button if you want to restart your machine now.

Online Help

You can access an online version of the DFS Client documentation from either the DFS Client Help or the DFS Command Reference Help icons in the TransarcDFS Program Group. The DFS Client's online help supports full text search.

The DFS Client Help provides all the information in the printed document and all the information accessed by the DFS Command Reference Help.

The DFS Command Reference Help provides the following:

- An overview of each DFS menu option on the File Manager

- An overview of each Client Configuration Application dialog box
- Reference information for the **dfsadmin**, **dfschmod**, and **dfstrace** command suites

The Optional Windows® 95 Interface

The DFS Client File Manager extension (DFS menu) is not available through the standard folder desktops of the optional Windows 95 interface. You must access the DFS menu from the File Manager.

To access the File Manager from the optional Windows 95 interface, perform the following operations:

1. Click the Start button on your desktop.
2. Point to the Programs option.
3. Point to the Main option when the Programs menu appears.
4. Select File Manager when the Main menu appears.

Microsoft® Office 95

You cannot use UNC names from a File Open dialog box from within Office 95 applications. You must use network drive connections to open your files with the File Open dialog box.

DCE Login is Case-Sensitive

If integrated login is enabled for DCE, you log in to DCE whenever you enter your user name and password to log in to Windows NT. In this case you must type your user name exactly, using upper or lower case letters as appropriate, because DCE login is case sensitive.

Troubleshooting

Information Written to a File Is Lost: 1

Problem

You can lose information written to a file if you access the file via an application that uses memory-mapped files and does not detect multiple users. If another user is writing to the same page of a memory-mapped file while you have that page open, any information you wrote to the file can be overwritten.

Solution

Do not use applications that use memory-mapped files and that do not detect multiple users.

Information Written to a File Is Lost: 2

Problem

A known problem with the underlying Microsoft RPC Service can prevent your DFS Client from storing data. The RPC can hang when the DFS Client tries to store data. This problem occurs very infrequently. Digital™ Equipment Corporation's defect number for this problem is QAR002.

Solution

No solution. You must restart Windows NT to clear the RPC Service.

Event Log Error When DFS Client Is Started

Problem

A DFS Client error can appear in the Windows NT System Event Log when DFS is started. This error states that the Transarc DFS autostart service terminated because an instance of the server is already running.

Solution

Ignore this error; it does not indicate a functional problem with the software.

DFS Client Loses Contact with a DFS Server

Problem

If the server goes down while your DFS client is communicating with it, a known problem with the underlying Microsoft RPC Service prevents your DFS Client from re-establishing contact with the server. Digital Equipment Corporation's defect number for this problem is QAR012.

Solution

You may have to restart Windows NT before you can communicate with the server again.

Operation on ACL Unauthorized Error

Problem

DFS displays an error message stating that it could not save an ACL. If you choose the OK button to close the Edit DFS ACL dialog box and, you do not have the proper permissions to edit the ACL, this error occurs, even if you did not make any changes to the ACL.

Solution

Choose the Cancel button to close the Edit DFS ACL dialog box if you do not have permissions to edit the ACL.

Documentation Additions and Corrections

The following corrections apply to the *DFS Client for Windows NT System Guide*. In a future release these corrections will be incorporated into the document.

Incorrect Dialog Box Reference

The Active Server Rankings dialog box was referenced incorrectly as the Show Active Rankings dialog box on page 7-6 of the *DFS Client for Windows NT System Guide*.

Chunk Size Can Be Changed

You can set the chunk size through the DFS Client Configuration Application on the Control Panel. For information on setting the chunk size, see the **User Issues** section above.

Changes to DCE ACL Inheritance

Previously, only newly created directories and executable files received **r** (read), **w** (write), and **x** (execute) permissions. Non-executable files received only **r** and **w** permissions. This is described in "DCE ACL Inheritance" on pages 4-12 through 4-14 of the *DFS Client for Windows NT System Guide*. Now, in addition to **r** and **w** permissions, newly created non-executable files receive the **x** permission.

Incorrect Path for setup Program

The pathname is incorrect in the instructions to run the **setup** program in "Installing DFS" on page 1-2 and "Uninstalling DFS" on page 1-6 of the *DFS Client for Windows NT System Guide*. To run the **setup** program from the File menu on the Program Manager menu bar, type

CD:**\DFSCLNT\Digital\i86\install\setup.exe**

where *CD* is the drive letter of your CD-ROM drive.