

Software Product Description

PRODUCT NAME: Digital Distributed Computing Solution for Open Systems, Version V1.1 SPD 56.53.00

DESCRIPTION

Abstract

Digital Distributed Computing Solution for Open Systems (DCSO) V1.1 is a complete solution that helps to develop and deploy Client/Server OSF™/DCE® based applications at low cost.

The main characteristics of **Digital Distributed Computing Soltion for Open Systems** are:

- Simplifies development of OSF/DCE Clients and Servers using a simple, powerful, flexible and reliable API.
- Simplifies deployment and management of OSF /DCE Servers in a OSF/DCE environment.
- Management is fully distributed and available as a reliable tool and API.Available over a simple to use GUI on Windows Platforms.
- OSF/DCE security is used in both the development API and management.

Highlight

- Digital Distributed Computing Solution for Open Systems is a complete environment for distributed applications.
- Easy and rapid client server application development drastically improves team productivity and saves money.
- It separates the underlying communication mechanism from the application providing independence from a particular technical choice.

- · Based on the OSF/DCE standard.
- Preserves DCE functionality and flexibility.
- Provides high availability for mission critical applications.
- · Provides application deployment and control utilities.
- · Management is fully distributed.
- Activity monitor: a single machine can monitor the activity of distributed applications.
- Can distribute and secure legacy applications very quickly.

Features

Integrated development and deployment environments.

Available for:

- Digital UNIX AXP Server, Client, and Administrator.
- Windows NT INTEL/AXP Client, and Administrator.
- · Windows 95 Client and Administrator.
- Header files provided for C & C++ Applications.
- Makes DCE-RPC very simple and preserves its power by the use of:
 - 1. Simple Server API:

One unique call to initialize a server.

One unique call to check the client authentication (security).

2. Simple Client API:

One unique macro to get server bindings and call RPC Routines.

This macro handles the failover/failback mechanism.

- Extended RPC functionality for mission critical applications.
 - Load balancing, failover, failback, security.
- · Server resolution includes load balancing.
- Multi-threaded servers.

The maximum number of threads for servers is a configurable server attribute.

- Multi-process servers for non-thread safe applications (database applications,...).
- Distributed management including an activity monitor, a simple command line interface and API.

Technical Information

- DCSO is implemented on top of OSF/DCE API and POSIX system calls.
- DCSO consists of the following components:
 - Local supervisor:Daemon process started on each node running a DCSO server.
 - Supervisor:Daemon process that manages a pool of servers started on one given node.
 - · Management utility, GUI and API.
 - · Server API .
 - · Client API .
 - Setup Utility (Digital UNIX platforms).
 - SetId kit installable process.
 - Monitoring is done over GUI on Windows NT and Windows 95 DCSO ADMIN utility.
- Failover/failback mechanism implemented with CDS profiles.
- Load balancing feature implemented with CDS groups.
- Persistent management data stored in a configuration file
- Environment variables can be set at supervisor level using an environment file.

These environment variables are inherited by the servers managed by the supervisor.

DOCUMENTATION

Digital Distributed Computing Solution for Open Systems includes the following documentation:

- · Installation Guide.
- Application Development Reference Manual.
- · Administration Guide.

HARDWARE REQUIREMENTS

Processor Supported:

Digital **DCSO** for Digital UNIX V1.1 is supported on all hardware configurations that support Digital UNIX Version V3.2 and V4.0. Reference can be made to the configuration charts listed in the Digital UNIX Operating Systems Software Product Description (SPD 41.61.xx).

Alpha Processor Supported:

Digital **DCSO** for Windows NT is supported by the Microsoft Windows NT V3.51 and V4.0 Operating Systems or higher. Refer to the Microsoft Windows NT Hardware Compatibility List for complete information on the Alpha processors and hardware options supported by Windows NT.

INTEL Processor Supported:

Digital **DCSO** for Windows NT is supported by the Microsoft Windows NT V3.51 and V4.0 Operating Systems or higher. Refer to the Microsoft Windows NT Hardware Compatibility List for complete information on the INTEL processors and hardware options supported by Windows NT.

Digital **DCSO** for Windows 95 in supported by the Microsoft Windows 95 V1.0 Operating Systems. Refer to the Microsoft Windows 95 Hardware Compatibility List for complete information on the INTEL processors and hardware options supported by Windows 95.

Minimum memory size:

- 20 Mbytes for Windows NT.
- 16 Mbytes for Windows 95.

Disk-Space Requirements:

- Digital UNIX Disk Space Requirements: 10 Mbytes.
- Windows NT (NTFS) Disk Space Requirements: 10 Mbytes.
- Windows 95 (FAT) Disk Space Requirements: 4 Mbytes

SOFTWARE REQUIREMENTS

Warranty applies only if the following software is installed and configured as specified in the **DCSO** Installation and System Management Guide:

For ALPHA Platforms running Digital UNIX:

- Digital UNIX Operating System V3.2 or higher.
- Digital DCE Runtime Services for Digital UNIX V1.31.
- Digital DCE CDS Server for Digital UNIX V1.31.
- Digital DCE Security Server for Digital UNIX V1.31.
- Digital DCE ADK for Digital UNIX V1.31.

For ALPHA/INTEL Platform PC running Microsoft Windows NT:

Client Configuration:

- Microsoft Windows NT V3.51
- Digital DCE Runtime Services for Windows NT V1.1b
- Digital DCE ADK for Windows NT V1.1b

For INTEL Platform PC running Microsoft Windows 95:

Client Configuration:

- Microsoft Windows 95 V1.0
- Digital DCE Runtime Services for Windows 95 V1.0
- Digital DCE ADK for Windows 95 V1.0

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

DISTRIBUTION MEDIA

The product **DCSO** is available on the following media:

- CD-ROM for Digital Unix ALPHA Platforms (SERVER /CLIENT/ADMIN)
- RX23 floppy for Windows NT ALPHA/INTEL Platforms (CLIENT/ADMIN)
- RX23 floppy for W95 Platforms (CLIENT/ADMIN)

ORDERING INFORMATION

For Digital UNIX AXP Platforms:

Software License **DCSO** Server: Q2-8AMA*-*A Software License **DCSO** Client: Q2-8AQA*-*A Software License **DSCO** Admin: Q2-8ATA*-*A

For Windows NT ALPHA/INTEL Platforms:

Software License **DCSO** Client Int/Alp: Q2-8ASA*-**
Software License **DCSO** Admin Int/Alp: Q2-8AVA*-**

For Windows 95 Platforms:

Software License **DCSO** Client: Q2-8ARA*-**
Software License **DCSO** Admin: Q2-8AUA*-**

Temporary Software Licenses: Q2-***A9-O*

Temporary and/or Loan Licenses are available for: 30 /60 Days.

Software Media & Documentation: Q2-***A*-H*

Note: The full Documentation set is included on the CDROM UNIX/ALPHA KIT only. There is no Documentation set on Windows NT and/or Windows 95 KITs.

* Denotes variant fields. For additional information on available licenses, services, and media, refer to the appropriate price book.

SOFTWARE LICENSING

This Software is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about Digital Licensing Terms and Policies, contact your local Digital office.

License Management Facility Support:

DCSO for Digital UNIX supports the Digital UNIX License Management Facility.

There is no LMF support provided for any Windows NT and Windows 95 Operating Systems.

However, for the Operating System Software mentionned above (i.e: Windows NT and Windows 95), a dedicated policy will be implemented (i.e: Shrink Wrap License use).

For more information on the License Management Facility, refer to the Digital UNIX Operating System Software Product Description.

SOFTWARE PRODUCT SERVICES

Software Orientation & Implementation Services for:

- DCSO SERVER
 - => QS-8AMA9-A9
- DCSO CLIENT
 - => QS-8AQA9-A9
- DCSO ADMIN
 - => QS-8ATA9-A9

A variety of service options are available from Digital. For more information, contact your local Digital office.

SOFTWARE WARRANTY

A 90 day warranty for this software application product is provided by Digital with the purchase of this product.

The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information.

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