Software Product Description

PRODUCT NAME: OpenDATA Manager, Version 1.2 **SPD 51.12.02**

DESCRIPTION

The OpenDATA Manager software product is a component of Digital Equipment Corporation's product data and document management strategy, designed to manage product information throughout the product life cycle at the department and enterprise levels of an organization. OpenDATA Manager provides data sharing across multiple work groups and across multiple disciplines within an organization. OpenDATA Manager manages files, documents, product data structures, versions, revisions, configuration information, and associated descriptive data relating to the information being managed. OpenDATA Manager tracks, stores, and controls this information using formal data management procedures for security to create, access, and modify the information.

Features

OpenDATA Manager offers the following features:

Data Modeling

OpenDATA Manager provides a methodology for representing the logical model that describes the product data, documents, and files that are generated during the product life cycle. This logical representation is a data model that allows the user to define objects, attributes, and relationships that represent the product data and documents.

For example, a simple office data model could consist of user-defined objects such as cabinets, folders, and files. A more complex product development data model might consist of user-defined objects such as project, product, assembly, part, documents, drawings, engineering notes, specification, and files.

The attributes for each object type can represent information critical to the product, such as status, part number, revision number, owner name, plant location, quantity, or effectivity date.

Object relationships allow objects to be connected together. Relationships can be used to build a hierarchy of objects, which can show dependencies, derivations, and collections for use in product structure or bill of material applications. This object hierarchy enables the creation of specific configurations of product information, for example, as-designed, as-built, or as-supported.

Configuration Management

OpenDATA Manager provides the ability to create a version of an object, where a version represents a state of an object at any point in time. Once a set of objects is configured together using object relationships, then this configuration can also be versioned to establish a baseline revision.

The ability to create and manage versions and revisions allows for differences to be tracked so changes over time can be determined and managed.

File Management

OpenDATA Manager provides controlled access to the product data, drawings, and documents by managing the files generated by the tools and applications used during the product life cycle.

OpenDATA Manager provides a project vault, which is the collection of files being managed by the server in a secure storage area, and a work-in-process area, which is the collection of files that are in the local client environment.

OpenDATA Manager provides file operations to reserve (request that a file from the vault be checked out and copied to the work-in-process area), replace (request that a work-in-process file that was previously reserved be checked back into the vault), and fetch (request that a read-only copy of a vault file be copied to the work-in-process area).

Data Security

OpenDATA Manager provides the ability to create users with OpenDATA Manager usernames and passwords, thus providing user authentication within the environment. As users are created, they can be placed into groups that identify the extent to which a user can access objects, activities, and functions.

OpenDATA Manager data security features offer the ability to define object-level protection such as read, write, delete, relate, administration, and reserve/replace for various classes of users, such as superuser, user, group, or world. The ability to define Access Control Lists (ACLs) is also included.

The combination of user authentication and object-level protection enables a controlled, secured environment.

Notification

OpenDATA Manager provides the ability for team members to communicate via electronic mail, allowing users to define distribution lists; to select, read, delete, and send messages; and to create and delete mail folders.

OpenDATA Manager provides the ability for users to assign distribution lists to objects, so when a predefined event occurs to the object then the users on the distribution list can be notified. The notify events include create (an object is created); replace (a file is replaced); set (an object's attributes were modified); checkpoint (an object was checkpointed); review (an object has entered a review process); end review (an object has completed a review process); insert (an object has been related to other objects); and remove (an object has been unrelated from other objects).

OpenDATA Manager can also attach a message to an object. For example, when a user is reading a message that includes an attached object, the user can immediately locate the object in the environment based on the message.

Review Flow

With OpenDATA Manager, users can place an object or group of objects into a review and approval process. When the object is in review, a review team (consisting of a list of reviewers and a review team leader) is requested to vote on the status of the object under review.

The review process is a defined sequence of steps consisting of review teams that can be reviewing the object sequentially (as one team completes, the next team starts) or in parallel (multiple teams review the object at the same time).

The review process is monitored by OpenDATA Manager. As actions need to occur, notification messages are sent to review team members to start a review, to remind them if they are late in voting based on a time limit set by the review leader, and to review leaders when a review is completed. The messages can contain comments from the team members explaining why and how they voted.

Archive and Restore

OpenDATA Manager provides the ability to archive object information and the associated files from the vault to the archive area. The selection of objects is based on configuration information.

If required, OpenDATA Manager also provides the ability to restore information that was previously archived from the archive area back into the vault.

History

OpenDATA Manager provides an audit trail by logging user actions to the database. This allows the system administrator to access the database and to query the history information to track user actions such as how many objects a user has created, or to understand how the environment is being used and by whom.

Distributed Client/Server Configuration

OpenDATA Manager software components run on client and server machines that communicate through Digital's ObjectBroker CORBA Request Broker. This configuration provides for a distributed and scalable environment for enterprise-wide integration of applications.

OpenDATA Manager includes, window-based, graphical client applications for the users to invoke the OpenDATA Manager operations and a second application for the MS Windows environment, the Data Model Editor, to establish the data models that represents the data, objects, users, documents, and files that need to be managed.

The server software components include the data management server, which provides the metadata operations and controls access to the OpenDATA Manager database; the event server, which provides the distribution of notification messages based on events in the environment; the history server, which logs the audit trail to the database, the storage area, where the managed files are stored, and the database, which is the repository for information tracked by OpenDATA Manager.

Customization

OpenDATA Manager environments can be customized by using,

- The Data Model Editor to create a customer-specific data model with customer-defined objects, attributes, and relationships
- The method refinement capabilities to modify the behavior of the data management server
- The client development environment which provides an application programming interface to develop customer-specific applications

INSTALLATION

Digital recommends that the customer's initial installation of this software be performed by Digital Software Services. These services provide for installation of the software product by an experienced Digital Software Specialist.

SUPPORTED CLIENT/SERVER CONFIGURATIONS

OpenDATA Manager has qualified the following combination of clients and servers with the specified network protocols.

Client	OpenVMS Alpha & VAX Server	Digital UNIX Server
MS® Windows™	DECnet	TCP/IP
OpenVMS Alpha	DECnet	
OpenVMS VAX	DECnet	
Digital UNIX®		TCP/IP
HP-UX®		TCP/IP

HARDWARE REQUIREMENTS

Microsoft® Windows Client Processors Supported

IBM® Compatible 80x86 CPU

OpenVMS VAX Client Processors Supported

VAXstation: VAXstation 3100 Model 30,
VAXstation 3100 Model 38,
VAXstation 3100 Model 40,
VAXstation 3100 Model 48,
VAXstation 3100 Model 76,
VAXstation 3200, VAXstation 3500,
VAXstation 3520, VAXstation 3540
VAXstation 4000 Model 60,
VAXstation 4000 Model 90,
VAXstation 4000 VLC

OpenVMS Alpha Client Processors Supported

Alpha: AlphaStation 200 Series,
AlphaStation 400 Series,
DEC 2000 Model 300 Workstation,
DEC 3000 Model 300 Series Workstation,
DEC 3000 Model 400 Workstation,
DEC 3000 Model 500 Series Workstation,
DEC 3000 Model 600 Workstation,
DEC 3000 Model 700 Workstation,
DEC 3000 Model 800 Workstation,
DEC 3000 Model 900 Workstation

Digital UNIX Client Processors Supported

Alpha: AlphaStation 200 Series,
AlphaStation 400 Series,
DEC 2000 Model 300 Workstation,
DEC 3000 Model 300 Series Workstation,
DEC 3000 Model 400 Workstation,
DEC 3000 Model 500 Series Workstation,
DEC 3000 Model 600 Workstation,
DEC 3000 Model 700 Workstation,
DEC 3000 Model 800 Workstation,
DEC 3000 Model 900 Workstation

HP-UX Client Processors Supported

HP-UX: HP® 9000/700 Series or Binary Compatible Workstations

Digital UNIX Server Processors Supported

Alpha: DEC 3000 Model 300 Alpha Server,
DEC 3000 Model 400 Alpha Server,
DEC 3000 Model 500 Alpha Server,
DEC 3000 Model 600 Alpha Server,
DEC 3000 Model 800 Alpha Server

DEC 4000 Model 6x0 Alpha System
DEC 4000 Model 7x0 Alpha System
DEC 7000 Model 6x0 Alpha System
DEC 7000 Model 700 Alpha System
DEC 10000 Model 6x0 Alpha System

AlphaServer 400
AlphaServer 1000 4/200
AlphaServer 2000 Series
AlphaServer 2100 Series
AlphaServer 8200
AlphaServer 8400

OpenVMS Alpha and OpenVMS VAX Server Processors Supported

All Alpha and VAX processors supporting the requisite version of the OpenVMS Operating System with the exception of the following VAX Servers which are not supported:

VAX: VAXft Model 110, VAXft Model 310, VAXft Model 410, VAXft Model 610, VAXft Model 612

VAX–11/725, VAX–11/730, VAX–11/750, VAX–11/780, VAX–11/782, VAX–11/785

MicroVAX: MicroVAX I, MicroVAX II, MicroVAX 2000, MicroVAX 3100 Model 10/10E, MicroVAX 3100 Model 20/20E, MicroVAX 3100 Model 30, MicroVAX 3100 Model 40, MicroVAX 3100 Model 80, MicroVAX 3300, MicroVAX 3400, MicroVAX 3500, MicroVAX 3600, MicroVAX 3800, MicroVAX 3900

VAXstation: VAXstation I, VAXstation II, VAXstation 2000, VAXstation 3100 Model 30, VAXstation 3100 Model 38, VAXstation 3100 Model 40, VAXstation 3100 Model 48, VAXstation 3100 Model 76, VAXstation 3200, VAXstation 3500, VAXstation 3520, VAXstation 3540, VAXstation 8000

VAXserver: VAXserver 3100, VAXserver 3300, VAXserver 3400, VAXserver 3500, VAXserver 3600, VAXserver 3602, VAXserver 3800, VAXserver 3900

Disk Space Requirements

Component	Operating System	Disk Space
Server	OpenVMS Alpha	120,000 Blocks
	OpenVMS VAX	74,000 Blocks
	Digital UNIX	84 MB
Client	MS Windows	4 MB
	OpenVMS Alpha	13,000 Blocks
	OpenVMS VAX	9,000 Blocks
	Digital UNIX	6.1 MB
	HP-UX	7.4 MB
Develop	MS Windows	4 MB
	OpenVMS Alpha	10,000 Blocks
	OpenVMS VAX	6,000 Blocks
	Digital UNIX	4 MB

These counts refer to the disk space required on the system disk. The sizes are approximate; actual sizes may vary depending on the user's system environment, configuration, and software options.

Memory Requirements

Component	Operating System	Memory
Server	OpenVMS Alpha	64 MB
	OpenVMS VAX	64 MB
	Digital UNIX	64 MB
Client	MS Windows	6 MB
	OpenVMS Alpha	32 MB
	OpenVMS VAX	32 MB
	Digital UNIX	32 MB
	HP-UX	32 MB

SOFTWARE REQUIREMENTS

For Microsoft Windows Clients

- MS–DOS® V5.0 Operating System
- MS Windows V3.1 Operating System
- ObjectBroker for Microsoft Windows, V2.5
- PATHWORKS V5.1 for DOS (DECnet for OpenVMS Servers and TCP/IP for UNIX Servers)

For OpenVMS Alpha Clients

- OpenVMS Alpha Operating System V6.1
- DECwindows Motif® V1.2
- ObjectBroker for OpenVMS, V2.5 (Run-Time)
- DECdfs Client V2.0

For OpenVMS VAX Clients

- OpenVMS VAX Operating System V6.1
- DECwindows Motif® V1.2
- ObjectBroker for OpenVMS, V2.5 (Run-Time)
- DECdfs Client V1.2
- DECdns Client V1.1

For Digital UNIX Clients

- Digital UNIX Operating System V3.0
- Motif V1.3 Windowing System
- ObjectBroker for UNIX, V2.5 (Run-Time)

For HP-UX Clients

- HP-UX 9.0.1 Operating System
- Motif V1.2 Windowing System
- ObjectBroker for UNIX, V2.5 (Run-Time)

For Digital UNIX Servers

- Digital UNIX Operating System V3.0
- ORACLE® Relational Data Base Management System V7.1.4 (RDBMS and UTIL Run-Time components)
- ObjectBroker for UNIX, V2.5 (Run-Time)
- PATHWORKS V5 for OSF/1

For OpenVMS Alpha & VAX Servers

- OpenVMS Alpha and OpenVMS VAX Operating System V6.1
- ORACLE Relational Data Base Management System V7.1.3 (RDBMS and UTIL Run-Time components)
- ObjectBroker for OpenVMS, V2.5 (Run-Time)
- PATHWORKS V5.0 for OpenVMS (DECnet)

OPTIONAL SOFTWARE

If you are using the OpenDATA Manager Client Development Kit on OpenVMS systems, there is an additional requirement for installing:

- DEC C/C++ Run-Time Components Version 6.0

If you are using the OpenDATA Manager Client Development Kit on Digital UNIX systems, there is an additional requirement for installing:

- DEC C/C++ Shared Libraries V2.01

If you are using the OpenDATA Manager OpenVMS Server and will be connecting OpenDATA Manager OpenVMS Clients systems, then there is an additional requirement to install the following on the OpenVMS VAX Server:

- DECdfs V1.2
- DECdns V1.1

or the following on the OpenVMS Alpha Server:

- DECdfs V2.0

DISTRIBUTION MEDIA

The software for both the server and all clients supported by that server are distributed in a single media kit based on the targeted server platform.

OpenDATA Manager software kits include:

- OpenDATA Manager Client Kit, containing the client application, the data modeling application, a utility to generate an ObjectBroker user context, sample data models, icon bitmap files, and the ObjectBroker class repository.
- OpenDATA Manager Server Kit, containing the data management server, the event server, and the history server. Also, utilities to load the data model, start and stop the servers, and to back up the database.
- OpenDATA Manager Client Development Kit, containing the client development libraries, a utility to generate an ObjectBroker user context, the Data Model Editor, and a sample Visual Basic program.

OpenVMS Alpha Server:

- CD-ROM (QA-2CAAA-H8)

OpenVMS VAX Server:

- TK50 Streaming Tape (QA-2C9AA-H5)
- CD-ROM (QA-2C9AA-H8)

Digital UNIX Server:

- CD-ROM (QA-2CBAA-H8)

ORDERING INFORMATION

For OpenVMS Alpha Servers:

Concurrent Use License: QL-2C9AA-3B
Media and Documentation: QA-2CAAA-H8
Traditional License: QL-2CAA*-AA
Services: QT-2CA**-**
Documentation only: QA-2CAAA-GZ

For OpenVMS VAX Servers:

Concurrent Use License: QL-2C9AA-3B
Media (CD-ROM) & Documentation: QA-2C9AA-H8
Media (TK50) & Documentation: QA-2C9AA-H5
Traditional License: QL-2C9A*-AA
Services: QT-2C9**-**
Documentation only: QA-2C9AA-GZ

For Digital UNIX Servers:

Concurrent Use License: QL-2CBAA-3B
Media and Documentation: QA-2CBAA-H8
Traditional License: QL-2CBA*-AA
Services: QT-2CB**-**
Documentation only: QA-2C9AA-GZ

For Microsoft Windows Clients:

Traditional License: QL-2CFAW-AA
Services: QT-2CF**-**

For Digital UNIX Clients:

Concurrent Use License: QL-2CEAA-3B
Personal Use License: QL-2CEAA-2B
Traditional License: QL-2CEA9-AA
Services: QT-2CE**-**

For OpenVMS Alpha Clients:

Traditional License: QL-2CDA9-AA
Services: QT-2CD**-**

For OpenVMS VAX Clients:

Concurrent Use License: QL-2CCAA-3B
Personal Use License: QL-2CCAA-2B
Traditional License: QL-2CCA9-AA
Services: QT-2CC**-**

For HP-UX Clients:

Traditional License: QL-35RA9-AA
Services: QT-35R**-**

For Microsoft Windows Run-Time:

Traditional License: QL-35SAW-AA
Services: QT-35S**-**

For Digital UNIX Run-Time:

Concurrent Use License: QL-35UAA-3B
Personal Use License: QL-35UAA-2B
Traditional License: QL-35UA9-AA
Services: QT-35U**-**

For OpenVMS Alpha Run-Time:

Traditional License: QL-4F3A9-AA
Services: QT-4F3**-**

For OpenVMS VAX Run-Time:

Concurrent Use License: QL-35TAA-3B
Personal Use License: QL-35TAA-2B
Traditional License: QL-35TA9-AA
Services: QT-35T**-**

For Microsoft Windows Development:

Traditional License: QL-35WA9-AA
Services: QT-35W**-**

For Digital UNIX Development:

Traditional License: QL-35YA9-AA
Services: QT-35Y**-**

For OpenVMS Alpha Development:

Traditional License: QL-4F2A9-AA
Services: QT-4F2**-**

For OpenVMS VAX Development:

Traditional License: QL-35XA9-AA
Services: QT-35X**-**

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

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

SOFTWARE LICENSING

OpenDATA Manager software licenses include:

- OpenDATA Manager Server License, which grants the user the right to log in to an OpenDATA Manager Server and use the data management services offered by OpenDATA Manager.

- OpenDATA Manager Client License, which grants the user the right to invoke the OpenDATA Manager Client application; utilize the work-in-progress features; and issue the commands to log in and access the OpenDATA Manager Server. This license also grants the user the right to invoke the OpenDATA Manager Data Model Editor or any application developed using the OpenDATA Manager Client Development License.
- OpenDATA Manager Run-Time License, which grants the user the right to invoke an application developed using the OpenDATA Manager Client Development License. This license also grants the user the right to invoke the OpenDATA Manager Data Model Editor.
- OpenDATA Manager Client Development License grants a developer the right to create a customer specific application using the OpenDATA Manager Development Kit. This license includes the rights granted by the OpenDATA Manager Run-Time License.

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