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Software Product Description

Product Name: MAILbus Directory Migration Toolkit for OpenVMS VAX, Version 1.0 **SPD 61.15.00**

PRODUCT DESCRIPTION

The MAILbus™ Directory Migration Toolkit (DMT) for OpenVMS™ VAX™ is a layered software product that resides on an OpenVMS VAX system.

The MAILbus Directory Migration Toolkit (DMT) provides a set of electronic mail software products and enhancements that will allow present Message Router based customers to migrate to a MAILbus 400™ /X.500 solution. Specifically, the toolkit provides synchronisation of information held on Message Router Directory Service (DDS) and Digital™ X.500 Directory System Agent (DSA). When used in conjunction with the MAILbus 400 Message Router Gateway (XMR), the MAILbus Directory Migration Toolkit provides a complete migration solution.

The MAILbus Directory Migration Toolkit accesses the Digital X.500 Directory Service via the X/Open™ Company Limited's OSI-Abstract-Data Manipulation Application Program Interface (API) and API to Directory Services, also known as XDS/XOM Application Program Interface. The XDS/XOM API is part of the Digital X.500 DSA and is implemented by installing the X.500 Base Kit.

Note: The MAILbus Directory Migration Toolkit and the X.500 Base Kit must both be installed with VAX Message Router on the same node/Cluster.

The toolkit comprises the following components:

- X.500 and DDS Directory Synchroniser (XDDS), has been developed to provide two way synchronisation between information held in the Message Router Directory Service (DDS) and Digital X.500 Directory System Agent (DSA).
- Enhancements to the MAILbus Management Utility (MBMAN) to allow bulk modification and content reporting for subscriber objects held in the permanent database on the local node.

FEATURES

- Directory synchronisation, within the context of MAILbus, involves using the subscriber entries in a Message Router Directory Service (DDS) network to populate a Digital X.500 Directory Service with replicas from DDS. Then, when users have directory entries in DDS and in X.500, they can operate both directory services simultaneously. However, whilst operating both directory services, any changes applied in either DDS or X.500 Directory Service must also be applied to the corresponding entry in the other directory service. Maintaining directory entries in this way is known as directory synchronisation.

  The directory sychroniser, XDDS, offers two-way synchronization of user information between DDS and X.500. It includes the means to add and update DDS/X.500 replica information within the associated directory structure, optionally including MAILbus 400 routing information in X.500. It also checks for potential name clashes amongst the replica entries generated in X.500 from source entries in DDS, plus deletion of DDS/X.500 replica information when original, source entries have been removed.
- Provision of customizable mapping rules to map attributes between directory entries. The mapping rules are based on a powerful list-based command language developed specifically for the purpose of synchronization.

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- Facility to create Digital X.500 Directory Service tree structures, to hold DDS replica information in person entry and MTS routing structures. The Directory Information Tree (DIT) Builder can be run separately from the Directory synchronisation part of XDDS, to create the directory subtrees that are needed in X.500. User configuarable DDS to X.500 mapping rules are used to derive the values needed to create a distinguished name for an entry in the user information subtree. These mapping rules are also used to create the O/R address terms needed to create an O/R address entry.
- Message Router MBMAN utility has been enhanced to allow manipulation of several DDS subscriber entries with a single (MBMAN) command. These enhancements include operations, such as SELECT and UPDATE, on multiple subscribers in DDS, and the ability to review the DDS database for consistency (SUMMARIZE command).

  The Directory Migration Toolkit license allows the enhanced MBMAN Utility to be installed and run on any system that is licensed to run Message Router V3.3A
- Diagnostic Tools. XDDS runs in batch mode for continuous synchronization, but to aid testing your customizations, XDDS can also run in debug mode or to simulate database synchronizations.
- Error reporting and log facilities are provided from information logged in a summary log file, and, if running in batch mode, the batch log file.

HARDWARE REQUIREMENTS

Processors Supported

Any OpenVMS VAX configuration supported by DECnet™/OSI® and Message Router for OpenVMS VAX, with the exception of those listed below. See the DECnet/OSI for OpenVMS VAX Software Product Description (SPD) (25.03.*) and VAX Message Router SPD (26.33.*) for further information on supported hardware configurations.

Processors Not Supported

MicroVAX™ I, VAXstation™ I, VAX–11/725, VAX–11 /782, VAXstation 8000

Disk Space Requirements (Block Cluster Size = 1):

Disk space required for installation:	3200 blocks

DMT will require 3200 blocks of disk space to install. Run time requirements may be greater depending on frequency of execution and level of logging requested. In addition, the disk space requirements for the associated directory products need to be considered; if the customer has a large population in one directory, then it would be prudent to ensure that the other directory has the resources needed to accommodate the replicas. See SPD/SSAs: VAX Message Router #26.33.*; for Digital X.500 Directory Service #40.77.*.

CLUSTER ENVIRONMENT

This layered product is fully supported when installed as single logical instance on any valid and licensed VMScluster™* configuration. Multiple logically separate instances of this product installed on the same VMScluster configuration is not supported.

* VMScluster configurations are fully described in the VMScluster Software Product Description (29.78.xx) and include CI™, Ethernet, and Mixed Interconnect configurations.

SOFTWARE REQUIREMENTS

Prerequisite software for the MAILbus Directory Migration Toolkit is:

- OpenVMS VAX Operating System V6.1 or later
- DECnet/OSI for OpenVMS, V6.3 or later
- VAX Message Router V3.3A or later
- X.500 Base Kit from Digital X.500 Directory System Agent for OpenVMS V3.0 ECO 1 or later.

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

TK™50 Streaming Tape.

MAILbus Directory Migration Toolkit and Digital X.500 Directory System Agent are available as part of the Digital CD-ROM Software Library for OpenVMS VAX Layered Products, part number QA-VWJ8A-H8.

ORDERING INFORMATION

Software Licenses: QL-4Z0A9-AA
Software Documentation: QA-4Z0AA-GZ
TK50 Media Kit: QA-4Z0AA-H5
Software Product Services: QT-4Z0A*-**

* Denotes variant fields. For additional information on available services, 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's licensing terms and policies, contact your local Digital office.

No license is required to implement the X.500 Base Kit from the Digital X.500 Directory System Agent for OpenVMS VAX.

License Management Facility Support

This layered product supports the OpenVMS V1.1 License Management Facility.

License units for this product are allocated on an Unlimited System Use basis.

The MAILbus Directory Migration Toolkit license allows the enhanced MBMAN Utility to be installed and run on any system that is licensed to run Message Router V3.3A

For more information on the License Management Facility, refer to the OpenVMS Operating System Software Product Description (SPD 25.01) or the License Management Facility Manual of the OpenVMS VAX Operating System documentation set.

SOFTWARE PRODUCT SERVICES

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

SOFTWARE WARRANTY

Warranty for this software product is provided by Digital with the purchase of a license for the product.