Software Product Description

PRODUCT NAME: NMCC/VAX ETHERnim, Version 2.3 **SPD 26.96.05**

DESCRIPTION

NMCC/VAX ETHERnim is a network management application program that provides the network manager with a tool to gather information about Ethernet nodes, verify reachability of nodes, provide a graphical display of local area network topology, and monitor Ethernet traffic.

NMCC/VAX ETHERnim consists of two categories of software. One must be installed on a VMS system set up as the Host, and the other can be optionally installed on Target systems running VMS. In this context, the Host is defined as the node on which the NMCC/VAX ETHERnim application runs, while the Target systems are the DECnet nodes on the Ethernet segments which are being tested at the User (task) level. The optional software installed on the Target system is referred to as the Remote files.

The Host software requires Phase IV DECnet software on a VMS system. When this software has been installed, the network manager has the ability to:

- Test the Ethernet network to help isolate and identify a problem.

  NMCC/VAX ETHERnim performs path-testing to ISO model levels I and II for DECnet and non-DECnet nodes, and levels IV and VII for DECnet nodes. NMCC/VAX ETHERnim also recognizes non-DECnet Ethernet addresses. For any nodes on the Ethernet segments running DECnet Phase IV, NMCC/VAX ETHERnim performs path-testing to DNA network user layers. The results of path-testing are recorded in a session history file and saved in the database.

- Build a permanent database containing basic information about each node directly connected to the Ethernet local area network.

  Some information can be collected automatically, while other information can be collected by user command or by manual edit of the database. The database can then be expanded or manipulated by the NMCC/VAX ETHERnim user via various NMCC/VAX ETHERnim functions.

  When NMCC/VAX ETHERnim detects a new node, it creates for that node a database entry, which contains at least the Ethernet address. Examples of information that can be collected (depending on the type of Target node) are:

  DECnet Address

  Ethernet Port Type

  List of additional communications ports

  DECnet ID Message

  DECnet Address

  Hardware Address

  DECnet Management Version

  DECnet Router Version

  DECnet Router Type

  DECnet NSP Version

  Note:DECnet is required on the Target node in order to obtain all of the above information, with the exception of Ethernet Port Type and Hardware Address.

  The following information must be entered manually:

  — Modem Phone Number

  — Modem Speed

  — Responsible Person

  — Desk Phone Number

  — System Location

  — Descriptive Text

- Monitor the network to determine which nodes are the top talkers and which nodes are the top listeners; sort/display traffic by protocol type or multi-cast address; focus on traffic to/from a specified node.

- Manually construct and maintain a topological view of the network, including transparent network devices (e.g., DEMPR, DELNI, DEREP).

The additional capability which is available with the installation of the Remote files on the Target nodes is that capability which requires the explicit cooperation between the Host and Target nodes through DECnet task-to-task communication. This capability includes the ability to:

- Test the communications path to each node up to the DNA application layer by performing a loopback test to a specified user account. This feature is available only for VMS Target systems.
- Perform information access to DECnet nodes on the Ethernet to determine the remote node's system type, hardware configuration and software configuration.

The Remote files can provide further information about Target nodes such as, Node Type, CPU Serial Number, CPU Type, Microcode Revision Level, Operating System Version, and Hardware revision level. This feature is available only for VMS Target systems.

HARDWARE REQUIREMENTS

VAX, MicroVAX, VAXstation, or VAXserver configuration as specified in the System Support Addendum (SSA 26.96.05-x).

SOFTWARE REQUIREMENTS*

For the Host System:
VMS Operating System
DECnet-VAX

For the Target System (for optional software use:)

VMS Operating System
DECnet-VAX

* Refer to the System Support Addendum for availability and required versions of prerequisite/optional software (SSA 26.96.05-x).

ORDERING INFORMATION

Software Licenses: QL-514A*-**
Software Media: QA-514A*-**
Software Documentation: QA-514A*-GZ
Software Product Services: QT-514A*-**

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

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