Software Product Description

PRODUCT NAME: Proteon SNMP/Token Ring Proxy Agent®   **SPD 38.47.00**
                        for ProNET®-4/16

DESCRIPTION

The Proteon SNMP/Token Ring (TR) Proxy Agent is an MS–DOS® based application that monitors and manages 802.5 physical layer and MAC layer entities while responding to requests for management information from remote SNMP management systems such as DECmcc.

Remote requests and responses are formulated as Simple Network Management Protocol (SNMP) messages over the User Datagram Protocol (UDP) transport protocol. Proper SNMP MIB support by the SNMP Management System of the SNMP/TR Proxy Agent is required. The network administrator should consult the individual SNMP Management System's documentation (DECmcc for example) for instructions on configuring the SNMP /TR Proxy Agent MIBs into the management system.

Both in-band and out of band management is possible. Out of band management is achieved when the Proxy Agent is used in conjunction with Proteon's Intelligent Wiring Centers (IWC). A serial port connection is required from the PC running the Proxy Agent to the management port on the Proteon IWC.

The SNMP Proxy Agent is a Terminate and Stay Resident (TSR) application. There must be a Proxy Agent to manage an 802.5/Token Ring LAN segment.

The Proxy Agent may runs transparently with other applications when managing a single ring. Due to memory restrictions, a dedicated PC configured with a proxy Agent is required to manage two or three 802.5/Token Ring segments.

The Proxy Agent can manage a maximum of three Token Ring segments. The PC must be configured with a Proteon ProNET-4/16 Token Ring Network Interface Card (NIC) for each managed 802.5/Token Ring segment, and an additional Token Ring PC NIC to communicate with the management system.

When managing three 802.5/Token Ring segments by the Proxy Agent, three of the PC NIC cards will use Bus Mastering, while the fourth PC NIC card (preferably the PC NIC for the Management system) will use pseudo-DMA.

The SNMP Proxy Agent has no local user interface other than the installation procedure. User access is via SNMP management systems such as DECmcc.

Limitations

- The SNMP Proxy Agent can not be loaded into high DOS memory.

- Traps are not supported. Events are recorded by the management system polling state variables.

- Large memory consumption limits which additional applications can run with it.

Features

Through the remote management platform such as DECmcc, SNMP/Proxy Agent for ProNET-4/16 provides the following:

- Troubleshooting and fault management capabilities including failure detection, isolation and recovery, ring beaconing, and ring partitioning help reduce local ring downtime.

- In-band monitoring and out-of-band control (when used with Proteon Intelligent Wire Centers). This feature allows administrators to control individual connections to isolate and resolve network failures.

- Network (Token Ring LAN/s) security by preventing unauthorized nodes from accessing the network.

- Automatic updates to configuration changes.

- Ability to be installed on an existing Token Ring network.

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HARDWARE REQUIREMENTS

Intel™ 80286, 80386, or 80486-based PC or compatible.

Serial Communications Port (only if Out-of-Band Management is needed)

Hard Disk: 10 Mbytes (minimum)

Memory: Consumes 404K bytes of RAM in ProNET-4 /16 configuration with one ring being monitored.

Two Network Interface Cards (NIC).

- Proteon ProNET-4/16 NIC to send receive 802.5 MAC frames.
- ProNET-4/16 NIC supported by TCP/IP kernel included in the Proxy Agent to provide a path to/from the SNMP remote management system.

The Proxy Agent NICs will not support non-management drivers. In the single managed Token Ring configuration, a third PC NIC is required to run additional workstations drivers and applications.

Network Interface Cards (NIC)

Proteon ProNET-4/16 NICs (Digital part numbers DW100-AA, DW110-AA, DW200-AA, DW210-AA, and DW300-AA).

When using Proteon Series 70 Intelligent Wire Centers (IWC; Digital part numbers DETDA-BA and DETDA-CA) a DW250-AA Serial Bus Interface must be installed from the PC running the Proxy Agent to the Management port on the Proteon IWC.

Personal Computers Supported

IBM® Personal Computer
AT®,
Micro (Channel®), EISA, or compatible 80x86 personal computers with an available COM port.

SOFTWARE REQUIREMENTS

MS–DOS Operating System at a minimum of V3.3

FTP PC/TCP: Network software for DOS, FTP Software®, Inc. (provided with the SNMP/TR Proxy Agent).

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

3.5 inch and 5.25 Inch Diskette

ORDERING INFORMATION

Single-Use License, media, documentation, and VHS training video: QB-MBCAA-**.

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

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