CABLETRON systems

Software Product Information

**PRODUCT NAME: clearVISN Stack Manager
                        Version 2.3 - Windows Suite**

**9033105
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Description

clearVISN Stack Manager is a network management application that has been designed to manage the DIGITAL DEChub 90, DIGITAL MultiSwitch 600, and DIGITAL MultiStack System product families. You can install the application on one of the following platforms:

- Microsoft® Windows® 95 and Microsoft Windows® 98

- Windows NT™ on an Intel® PC

- Windows NT V4.0 on a DIGITAL Alpha PC

The Stack Manager application is a flexible Simple Network Management Protocol (SNMP) tool that runs on Microsoft operating systems. The graphical user interface (GUI) allows you to configure DEChub 90s, DIGITAL MultiStack Systems, and DIGITAL MultiSwitch 600s; and to monitor the status and activity of modules in these product families. To aid in understanding Stack Manager, context-sensitive help can be displayed for every screen.

Stack Manager supports:

- All DEChub 90 and DIGITAL MultiStack System modules, as detailed in this document

- DIGITAL MultiSwitch 600 products

Version 5.0.10 or higher of the Consolidated Firmware kit is required for Stack Manager to operate properly with DEChubs and DEChub modules. This kit is included on the clearVISN CD-ROM.

Using Stack Manager

You can invoke Stack Manager from the Start button in Windows 95, Windows 98, and NT when used standalone. The initial window displays the front panel view of the selected device, stack, or chassis.

The front panel view reveals the hub, MultiSwitch 600, or DIGITAL MultiStack System configuration. Stack Manager incorporates both physical and logical views. The physical view depicts a representation of the hub's physical appearance. The logical view provides the same technical data, but uses a standard module template with labels and icons to distinguish module types. Modules in a DIGITAL MultiSwitch 600 or in a DIGITAL MultiStack System are displayed with relative slot numbers; however, distance between DIGITAL MultiStack System 90 modules is not represented. Both views provide access to hub module management windows and options.

To access module management windows, you double click on a module in the Front Panel window. Both the physical and logical views have "hot spots," such as the port connectors. When you click on hot spots, another window opens containing information and controls that are specific to that module or port.

Supported Devices

Stack Manager uses SNMP to manage the DEChub 90 MultiSwitch, DIGITAL MultiSwitch 600, and DIGITAL MultiStack System. These products include:

DECrepeater	90C, 90T, 90T+, 90T-16, 90TS, 90FA, 90FS, 90FL
RouteAbout Access	EW, EI
RoamAbout Access Point	
DECserver	90L, 90L+, 90TL, 90M
DECagent 90	
DECbridge	90, 90FL
DECbrouter	90T1, 90T2, 90T2A
DIGITAL MultiSwitch	612EX
DIGITAL MultiSwitch Hub	624T and 612TX

An SNMP agent is an entity in a hardware device that executes SNMP requests. The following hardware devices contain integral SNMP agents and can be managed directly by Stack Manager:

- DECagent 90

- DECserver 90TL, 90M

- DECbrouter 90T1, 90T2, 90T2A

- RoamAbout Access Point

- RouteAbout Access EW, EI

- DIGITAL MultiSwitch 600 Stack Director

Stack Manager manages SNMP agents that are identified in the Stack Manager agents file. The deletion and modification of SNMP agents and communities is accomplished in the Community Table window.

DIGITAL MultiStack System Management

Management of a DIGITAL MultiStack System requires a bus master services module in slot 15 of the stack. Using bus master services, slot information can be displayed through Stack Manager. A bus master services module can be a DECagent 90 with V3.0 or later firmware or a DECrepeater 90TS or 90FS running V2.0 or later firmware. The DECrepeater 90TS or 90FS can manage any DECrepeater 90 module in the stack, while a DECagent 90 is required to manage DECbridge 90s or 90FLs or DECserver 90Ls and 90L+s. Devices with their own IP address, such as the DECbrouter 90, can be managed directly from Stack Manager; the bus master module provides only the slot information for the device's position in the stack. To manage a DECrepeater 90TS or 90FS in a stack using its full Management Information Base (MIB), the module must have its own IP address. Only partial MIB support is available when the module is proxied by a bus master module.

DEChub 90 Management

Management of a DEChub 90 requires a bus master services module in the DEChub 90. Using bus master services, DEChub 90 slot information can be displayed through Stack Manager. A bus master services module can be a DECagent 90, a DECbridge 90 or 90FL, or a DECrepeater 90TS or 90FS. DECbridge 90s and 90FLs are no longer being updated as bus master devices; therefore, it is recommended that DECbridge 90s or 90FLs be used only as bus master devices in hubs that contain older modules such as DECrepeaters 90C, 90T, 90T+, 90FA, 90FL and DECservers 90L, 90L+. The DECagent 90, V3.x, can manage 1 to 16 communities, consisting of not more than 48 modules. One of the 16 communities always contains the DECagent 90. A community can consist of an 8-16 slot DEChub 90 configuration, a DIGITAL MultiStack System of up to 16 devices, or a standalone DECserver 90L, 90L+, DECbridge 90, or 90FL.

Stack Manager manages the DECbrouter 90 and RouteAbout Access routers by displaying a Module Summary screen and giving you the ability to create a Telnet session to the device. Stack Manager also supplements DECserver 90 SNMP management with Telnet access for the DECservers that support Telnet. These include the DECserver 90TL and the DECserver 90M.

DIGITAL MultiSwitch 600 Management

Stack Manager can manage a stack of DIGITAL MultiSwitch 600 family devices including the Hub 624T, 612TX, and the Switch 612EX products. The device on the bottom of the stack must be powered by a DIGITAL MultiSwitch 600 Stack Director that provides an SNMP agent for the stack. The devices in the stack are displayed in Stack Manager in the order that they appear in the stack. DIGITAL MultiSwitch 600 devices cannot be managed in a DEChub 900 using Stack Manager. You can click on a module to see summary information for that module. You can also click on an individual port to see port detail.

Like the DIGITAL MultiSwitch 900, the DIGITAL MultiSwitch 600 supports multiple internal LANs. To create and control these LANs, you select View/LAN Interconnect on the menu bar.

The DIGITAL MultiSwitch Hub 624T allows ports, in groups of 12, to be attached to any one of seven internal LANs. Each port of the MultiSwitch 612EX can also be connected internally to any one of the seven LANs, adhering to the "high/low" port definitions in the module.

clearVISN Flash Loader

clearVISN Flash Loader can be run from Stack Manager or directly from the Windows interface. Flash Loader is a utility with a graphical interface for upgrading device firmware over the network. Flash Loader provides for loading SNMP agents information from the clearVISN database, as well as a provision for manually specifying agents. Flash Loader retrieves the current firmware revision from a device and shows how it compares to the most recent firmware revision from the Consolidated Firmware kit. You can choose to update devices one at a time or in batch mode using an edited list of devices. A log file indicating success or failure is kept for reference. Flash Loader uses the trivial file transfer protocol (TFTP) application for downloading devices. Flash Loader supports the devices in the Consolidated Firmware kit.

Hardware Requirements

- Intel® Pentium 200MHz or higher performance IBM®-compatible PC

- Color monitor with 800 x 600 resolution

- Minimum 64 MB RAM

- CD-ROM drive

- Minimum 100 MB of disk space

- Mouse or other pointing device supported by Windows

- 32-bit Ethernet Network Interface Card (NIC)

The following Alpha processors running Windows NT 4.0 are supported using FX!32:

AlphaStation	200, 250
AlphaServer	400, 1000, 2000, 2100
DECpcAXP 150	
DEC 2000 Server	

Other Hardware Required

- *For DEChub 90 and DIGITAL MultiStack System:* DECagent 90 or other bus master and proxy agent

- *For DIGITAL MultiSwitch 600:* MultiSwitch 600 Stack Director and Stack Stations.

This list comprises the requirements for running the Windows Suite family of standalone applications.

The requirements may be greater if you are running the Windows Suite with other network applications. Refer to your documentation for the hardware requirements of those applications.

Software Requirements

One of the following operating systems:

- Microsoft Windows 95, Windows 98, or Windows NT V4.0 - Intel

- Microsoft Windows NT V4.0 - Alpha (with FX!32 translator)

Consolidated Firmware

Firmware in supported devices must be at the latest revision levels. Although the Consolidated Firmware Kit for the DIGITAL devices is included on the clearVISN CD-ROM, it can also be obtained through the Cabletron Web Page at the following address:

http://www.cabletron.com/dnpg/dr/hubs/firmware/

Optional Software

Other Cabletron applications include:

- MultiChassis Manager

- Recovery Manager

- VLAN Manager

- Fault Policy Manager

- Traffic Policy Manager

- RMON Manager

Growth Considerations

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

Distribution Media

CD-ROM

Ordering Information

Note: The clearVISN CD-ROM contains all the applications and documentation. You need to order only one copy of QA-5FVAB-X8. You must purchase additional QM licenses for each user of the application.

clearVISN Stack Manager license only:	QM-4YGAA-BA
clearVISN Stack Manager upgrade license:	QM-4YGAA-BB
CD-ROM and documentation:	QA-5FVAB-X8

Software Product Services

Provided by Compaq Computer Corporation, and available through Compaq:

New Version License Service:	QT-4YGAA-TA
Media and Documentation Delivery Service:	QT-5FVAB-E8
Installation:	QT-4YGAA-I9
Telephone Support:	QT-4YGAA-ZA

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Year 2000 Information

For Year 2000 information, refer to the Cabletron web page:

http://www.cabletron.com/year-2000

Software Warranty

Warranty for this software product is provided by Compaq with the purchase of a license for the product as defined in the license agreement.

The previous information is valid at the time of release. Contact your local Cabletron office for the most up-to-date information.

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