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Software Product Description

PRODUCT NAME: clearVISN Resilience for Windows, Version 1.0

SPD 64.41.00

DESCRIPTION

clearVISN Resilience for Windows[™] is an application for Microsoft® Windows that is designed to save the configuration of a supported network device to a file on disk and restore that configuration back to the network device. It performs the following functions for supported devices:

- Back up some or all SNMP parameters from a network device to a file on the PC
- Restore some or all saved parameters from a file into
 a selected network device
- Copy some or all parameters from one network device to another network device of a similar kind

clearVISN Resilience is a standalone application; HUBwatch is not a prerequisite.

The clearVISN Resilience application is a flexible Simple Network Management Protocol (SNMP) tool that runs in the Windows 3.1, Windows for Workgroups 3.11, or Windows NT 3.51 environments. The graphical user interface (GUI) allows you to capture the configuration of an active DEChub, or DEChub module. At anytime later, you can restore these configuration settings to the same or to a like module. This capability is helpful in the following scenarios:

- A previously working module has been replaced, and you want the replacement to be set up identical to the original.
- You have numerous devices of the same type, for which you want identical or almost identical setups. You need only to configure the first device, save the configuration, then restore it to the other similar devices. It is then easier to make the few necessary changes for the differences among the devices.
- You have everything working as planned, and you want to save this configuration. Then if something goes wrong later, you can restore the configuration from the saved file.

Some devices, while having differences in one aspect or another, can be considered to be members of the same family. This occurs when the devices support the same management information base (MIB) groups. clearVISN Resilience allows you to back up configuration parameters for each device in the same family.

Because of the MIB knowledge needed for each device, only supported devices can be backed up or restored using clearVISN Resilience. Support for the following network devices is included in Version 1.0:

- PORTswitch 900-series modules, standalone and in a DEChub 900 MultiSwitch
- DECrepeater 90TS and 90FS, standalone and in a DEChub 900 MultiSwitch
- DECbridge 900MX, standalone and in a DEChub 900
 MultiSwitch
- DECconcentrator 900, all variations, standalone and in a DEChub 900 MultiSwitch
- DEChub 900 MultiSwitch chassis
- DECmau 900TH, standalone and in a DEChub 900 MultiSwitch
- DECmau 900TL, in a DEChub 900 MultiSwitch with a DECmau 900TH
- DECrepeater 90, all variations, in a DEChub Multi-Switch 900 only
- DECrepeater 900, all Ethernet variations, standalone and in a DEChub 900 MultiSwitch
- DECrepeater 900TL, 900SL, 900FL (Token Ring) in a DEChub 900 MultiSwitch with a DECmau 900TH
- DECswitch 900EE and 900EF, standalone and in a DEChub 900 MultiSwitch (non-routing versions only)
- PEswitch 900TX, standalone and in a DEChub 900 MultiSwitch

 RoamAbout Access Point, standalone and in a DEChub 900 MultiSwitch

The following network devices are NOT supported in Version 1.0:

- DECagent 90
- DECbridge 90 and 90FL
- DECrepeater 90 modules in DEChub 90 backplane
- DECserver modules, MUXserver 90, LATprint
- DEChub 90
- Digital MultiStack System
- GIGAswitch/FDDI
- GIGAswitch/ATM
- All router and brouter modules, and DECswitch 900
 modules running routing firmware

USER INTERFACE

clearVISN Resilience has two interfaces: a GUI (for Windows) and a command line interface (CLI). The GUI is the expected interface to the product. The CLI exists so that backup and restore functions can be submitted to a batch queue or a command procedure, for execution at some other time. Although the CLI is highly specialized, clearVISN Resilience can automatically generate CLI commands.

COMPONENTS OF clearVISN RESILIENCE

clearVISN Resilience consists of several components:

- A GUI, an image, a script interpreter, SNMP libraries, and other associated components.
- Script files—Script files contain backup and restore scripts written in the special clearVISN Resilience language. Each supported network device has a backup script and a restore script which contains the directions for backing up and restoring its device parameters. As new hardware is developed, script files for that hardware will also be developed.
- Master file—This file maps sysObjectId's to device type to a backup script or a restore script.
- MIB Master file—This file maps MIB names to their object identifiers (OIDs).

Online help exists for every screen.

USING clearVISN RESILIENCE

You use clearVISN Resilience to perform backup and restore operations.

Performing a Backup Operation

To perform a backup operation, (saving the configuration of a network device to a file), use the following procedure:

 Select (by IP/Community) a network device to be backed up. The device can be a module in a hub, a standalone module, or a DEChub 900 MultiSwitch. If the device is a DEChub 900 MultiSwitch, the Hub Manager and any of the modules within the hub can be selected.

The software issues an SNMP GET request to the selected device to get the sysObjectID variable. The software then uses the returned value of the sysObjectID to determine the following information:

- the type of device
- whether the device is a supported network device
- the backup subset options that are available for the device. (If the device is a DEChub 900 MultiSwitch, then another SNMP request is issued to build a list of which modules are in the hub.)

For supported devices, the backup subset options are displayed for the device (or devices, if a DEChub 900 MultiSwitch). A full backup for each supported device can be selected.

- You then select the following:
 - the backup subset options desired
 - the filename for the saved data
- When you press the OK button, clearVISN Resilience performs the selected backup operations. Status is written to a log file and displayed in the Status window.

Performing a Restore Operation

To perform a restore (from a saved data file to a network device), use the following procedure:

 Select (by IP/Community) a network device to be restored. The device can be a module in a hub, a standalone module, or a DEChub 900 MultiSwitch.

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• Enter the filename that contains the saved data for the device.

An SNMP GET request is issued to the selected device to get the sysObjectID to determine the device type. If the device is a DEChub 900 MultiSwitch, the Hub Manager and all the modules within the hub are selected; you can select whether to restore the entire hub, a particular slot in the hub, or the Hub Manager.

The saved data file is then used to determine which restore subset options are available to the device. (If a device has the following as backup subset items: full, A, B, and C, and if you backed up only subsets A and C, then only A and C are available for restore.)

- You select which subsets (and which devices, if a hub) are to be restored.
- When you press the OK button, the data stored in the saved data file is read, and SNMP SET requests are issued to load the network device with the appropriate saved data from the file. Status is written to a log file and displayed in the Status window.

HARDWARE REQUIREMENTS

- Intel® 80386, 33 MHz or higher performance IBM®compatible PC
- Color VGA or SVGA monitor
- Minimum 8 MB RAM
- 3.5-inch diskette drive
- Minimum 4 MB of disk space
- Mouse or other pointing device supported by Windows 3.1
- 16-bit Ethernet Network Interface Card (NIC)

This list comprises the requirements for running clearVISN Resilience standalone. The requirements may be greater if you are running clearVISN Resilience with other network applications. Refer to the documentation for the other applications for the hardware requirements.

Firmware in supported DEChub devices must be at the latest revision levels.

The DEChub Consolidated Firmware Kit V4.1.1 is available through these methods:

Digital Networks Product Business World Wide Web service. The Digital Networks url is as follows:

United States:	http:://www.networks.digital.com
Europe:	http:://www.networks.europe.digital.com

Australia: http:://www.digital.com.au/networks

To locate the firmware, choose:

Products and Technology

Technical Data

Hubs Firmware

- Internet users can also obtain the firmware and the load utility using anonymous FTP at ftp.digital.com in the /pub/DEC/hub900 directory.
- If you are not yet connected to the Web, you can access the same information through Digital Networks Bulletin Board System (BBS). All you need are a PC and a modem. Dial 508-486-5777 (U.S.A.). Set your modem to 8 bits, no parity, 1 stop bit.

SOFTWARE REQUIREMENTS

One of the following operating systems:

Microsoft Windows V3.1

Microsoft Windows for Workgroups V3.11

Microsoft Windows NT Workstation V3.50 or 3.51

Winsock-compliant IP stack; for example, PATHWORKS V5.1

OPTIONAL SOFTWARE

HUBwatch for Windows

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

1.44 MB diskette

ORDERING INFORMATION

QB-4YJAA-SA clearVISN Resilience for Windows license, media, and documentation

Software documentation: QA-4YJAA-GZ clearVISN Resilience manual only

Additional licenses: QM-4YJAA-AA

SOFTWARE PRODUCT SERVICES

- New Version License Service: QT-4YJAA-TA
- Telephone Support: QT-4YJAA-ZA
- Package Services: QT-4YJAA-XA

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