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# **GlobalVision Manual**

# **Reference Guide**

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**GlobalVision Manual** 

**Reference Guide** 

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## **Chapter 1 - Introduction**

This manual is designed to introduce GlobalVision, the management software application for Cubix products. This manual will provide an overview, a theory of operation, installation and configuration options, operation instructions, and uses of GlobalVision. This manual will also provide an overview and a theory of operation of the supporting hardware for GlobalVision, the IES Supervisory System. Detailed instructions are provided in manuals provided with each system.

#### **GlobalVision Overview**

GlobalVision is the Cubix management system for managing Cubix devices in either a LAN/WAN environment, through a dialup connection or via the Internet. GlobalVision provides monitoring, alarming, supervisory control and usage reporting from a central management console. Because GlobalVision uses standard SNMP (Simple Network Management Protocol), it can also be integrated into your enterprise management package. Innovative, new packet filtering allows for a certain amount of security when utilized via the Internet for managing with GlobalVision.

This chapter discusses the GlobalVision management of various device types and how GlobalVision works with the IES Supervisory System, IES Module, and IES. This section also explains how the GlobalVision Console management application works with the hardware to manage Cubix products.



#### **Section 1 - Cubix Device Types**

GlobalVision manages two types of devices:

• All Cubix computer boards, i.e. BC (single processor boards for the ERS/FTII systems or Density Systems), SP (single processor boards for the Density systems), DP (dual processor boards for the ERS/FTII systems or Density systems) and CP (Celeron processor boards for both Density and ERS/FTII systems).

• IES (Intelligent Environmental Sensor) which is a hardware component installed in Cubix processor enclosures. The IES monitors the enclosure environment and any Cubix processors installed in the enclosure. Each IES is equipped with an interface to a Cubix data highway. This out-of-band highway connects up to thirty-one IES modules to the GlobalVision console.

#### **Components of GlobalVision**

GlobalVision consists of three main software components.

- GlobalVision Console Software
  - GlobalVision Agents and IES Responders (to be installed on each Cubix device managed by GlobalVision)
  - GlobalVision Web Interface Software (to be installed on Web server).

Figure 1 shows the functional relationship of the different GlobalVision components.



Figure 1 – Functional Relationship of GlobalVision Components

#### Section 2 - GlobalVision Console Software

A GlobalVision Console is a Windows NT workstation running the GlobalVision application. The GlobalVision application provides the user interface for the management of Cubix devices. A GlobalVision Console also collects and stores data from the GlobalVision Agents. Multiple GlobalVision Consoles can communicate with each other and share information. A user at a GlobalVision Console can manage devices that are physically attached to the Console and also devices that are attached to remote GlobalVision Consoles.

Additionally, each GlobalVision Console maintains two databases: the Alarm Database and the Usage Database. The Alarm Database stores alarms that have occurred on the IES modules that are physically attached to the GlobalVision Console and any alarms that have been reported. The Usage Database stores usage information on the Cubix processors that are associated with the GlobalVision Console. A GlobalVision Console can access information from the local database and a remote GlobalVision Console's database in the form of reports.

#### **GlobalVision Agents and IES Responders**

Cubix processors managed by GlobalVision require a SNMP Agent and an IES Responder driver.

#### **SNMP** Agents

In order for GlobalVision to receive usage and inventory information from Cubix processors, a SNMP Agent must be installed on each processor. Alarms are also generated by these agents in the form of SNMP traps.

- **DOS/Windows 3.x Agent** provides status, inventory and usage information from Cubix processors running DOS or Windows 3.x
- Windows NT/95/98 Agent provides status, inventory and usage information from Cubix processors running Windows NT/95/98
- NetWare Agent provides status and inventory information from Cubix processors running as a NetWare file server or router
- Linux Agent provides status and inventory and usage information from Cubix processors running Red Hat 6.0 and above and Turbo Linux 4.0

#### **IES Responder Drivers**

The IES Responder drivers running on the Cubix processors support GlobalVision by responding to the IES status poll. The driver used depends on the operating system installed on the processor. Refer to Agent Workstation Setup for additional information about each driver.

#### **GlobalVision Web Interface**

GlobalVision Web (GV Web) is a Common Gateway Interface (CGI) script that provides functionality of GlobalVision over an HTTP connection. Once installed, administrators can "link" to a GlobalVision session on a secure area of the intranet to monitor Cubix servers, reset locked processors and perform other management tasks. The GlobalVision Web interface extends management capabilities for the network system to busy network administrators.

#### Section 3 - GlobalVision and the IES Supervisory System

GlobalVision is a Microsoft® Windows NT<sup>®</sup> based network management console that works with the IES Supervisory System to monitor and manage Cubix computer boards and the existing enclosures. GlobalVision receives information from the DP, SP, CP and BC agents across the network via SNMP services, and across the Cubix network (or out-of-band data highway). GlobalVision can manage up to 31 enclosures, each with up to 8 Cubix computer boards, for a potential total of 247 Cubix computers.

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<u>File View Network Window H</u>	lelp	
-	Global View	▼ ▲
Cubix Enterprise     Cub	Details         System         Network         Mouse         Drive         LPT Poil           Name         Value         Description         1-Novell File Server         0           © Status         Active         Active         Active         0         1-Novell File Server         0           Vetwork Address         31C1A508:0000000000001         Drive         0         0         0           CPR         Disabled         Disabled         Drive         0         0         0           CPR Resets         0         Normal Resets         0         0         0         0           Normal Resets         10         1         1         1         0         1         <	
-	ALARM MONITOR	▼ ▲
Status Type Alarm	Date/Time Origin	
*		+

Figure 2 - GlobalVision Console

The Cubix IES (Intelligent Environmental Sensor) is a module installed within each Cubix enclosure. The purpose of the IES is to monitor the environment and to manage Cubix microcomputer products. The IES Supervisory System "reports" its findings to GlobalVision. Using scripting, GlobalVision can notify administrators of system alarms via third-party email and paging software. GlobalVision provides an integrated view of Cubix servers with a hierarchical graphical presentation of the information for easy, at-a-glance viewing. See figure 2.

The **GLOBALVISION CONSOLE** runs under the Microsoft<sup>®</sup> Windows NT<sup>®</sup> Workstation (or Server) on the IES Supervisor. As long as the Cubix enclosure has power, even if the network is down, the LAN administrator can manage Cubix enclosures and computers from the Local GlobalVision Console. The Console can also be installed and run as a remote console on any Windows NT<sup>®</sup> Workstation (or Server) on the local or wide area network (WAN). A LAN administrator can use GlobalVision to monitor computer status, reset a locked computer, or alert an operator if environmental problems develop in the chassis.

GlobalVision is also instrumented for Simple Network Management Protocol (SNMP). It maintains two management information base (MIB II) databases, which are available for browsing by network management application consoles such as Novell<sup>®</sup> ManageWise<sup>™</sup>, Hewlett-Packard<sup>®</sup> HP Openview<sup>®</sup>, Microsoft<sup>®</sup> Excel<sup>®</sup>, or Microsoft<sup>®</sup> Access<sup>®</sup> via SNMP traps.

Cubix has included an application programming interface (API) that allows **GLOBALVISION CONSOLE** to support a remote-control application. From the **GLOBALVISION CONSOLE**, the LAN administrator can take control of another Cubix server and make changes without having physically to go to that server.

GlobalVision supports transport using either IPX/SPX or TCP/IP, or both. This provides a way to manage the Cubix chassis, DP series boards, BC series boards, SP series boards and CP series boards from any console across the LAN or WAN.

The GLOBALVISION CONSOLE and the IES supervisor must remain open and running or system information will not be collected in the Usage and Alarm Databases of the ERS/FT II. If the GLOBALVISION CONSOLE and the IES supervisor are not running, a fault will be generated, i.e. the indicator LED next to "Data Highway" will be red. See Figure 124 for location of Data Highway LED.

#### **IES (Intelligent Environmental Sensor)**

The IES module provides management functions for the Cubix Density Series<sup>™</sup> systems and the ERS/FT II systems. The IES module is integrated into the ERS/FT II systems. In the Density, the IES module is a Multiplexor/IES module board, which is installed in a backplane slot.

The IES Module is one portion of the management system for Cubix chassis and Cubix server boards; the other portions are the IES Supervisor and GlobalVision. The IES Module is the hardware that performs the monitoring and management functions as configured by GlobalVision. The IES communicates with Cubix products via the out-of-band (not on the network) IES "data highway." This design does not depend completely upon the network and backplane for managing Cubix chassis and servers. Only a few functions use the network. Therefore, IES management is not disabled by network problems. Additionally, neither the network nor the Cubix backplane is burdened with management communication. The IES is designed to provide non-intrusive management within the Cubix network system.

#### **IES Module and Integrated IES**

The IES Module and the integrated IES (in ERS/FT II) have been designed by Cubix to monitor the health of all Cubix computers and Cubix chassis products.

The IES monitors chassis voltage levels, power supply status, temperature and fan rotation. The IES also monitors the health of the individual Cubix computers by detecting when a computer is not responding to poll requests. The IES can detect software "hangs" and other abnormal computer operations.

If IES detects that a computer cannot respond to interrupt polls, the IES can be configured to send a signal that causes the computer to perform an automatic hardware reset, including power-on system test (POST), memory count, and re-initialization of I/O. This reset function is enabled (as for a remote-control host) or disabled (as for a server) depending on the system configuration requirements by using the GlobalVision management application.

#### **IES Supervisor Functions**

The IES Supervisor is typically running on Windows NT<sup>®</sup> 3.51 or 4.0 Workstation (or Server) and Cubix **GLOBALVISION CONSOLE**. It enables the network administrator to monitor and manage any Cubix server anywhere across the LAN or WAN, and even across a remote connection.

The administrator can make as many copies of **GLOBALVISION CONSOLE** as needed, and place them on any network station running Windows NT<sup>®</sup> Workstation. The administrator simply enables the IES Supervisor Console to trap updates to the other

**GLOBALVISION CONSOLES** via

#### (in next Cubix chassis) IES Module Cubix GlobalVision Data Highway (out - of - band) Console BC or DP Serie Runs Here SP or DP Series BC or CP Series ed) Backplane Superviso IVisio Can be installed in any ERS/FT II or Density



simple network management protocol (SNMP) service. SNMP traffic on the network is limited to alarms once the network administrator's GlobalVision console has been updated.

A Remote GlobalVision Console on a notebook or home PC running Windows NT<sup>®</sup> can receive both updates and SNMP alarms. The remote administrator dials into the LAN using remote access services, runs the **GLOBALVISION CONSOLE**, and soon the administrator will be receiving updates and alarms.

The previous version of a management application that ran on the IES Supervisor was called BCVision, and an optional application called the Cubix Management System (CMS). QLVision ran on a NetWare<sup>®</sup> server or router with QL Series boards installed. These applications have been completely replaced by GlobalVision. None of the previous versions should remain on the network once GlobalVision is installed.

The following functions are available using GlobalVision and the IES Supervisory System:

- Voltage monitoring The power voltages (+5, -5, +12, and -12) are monitored and an alarm is generated if the voltages fluctuate out of tolerance.
- **Temperature monitoring** The temperature of the chassis is monitored and an alarm is generated if the temperature exceeds the maximum threshold.
- **Peripheral electrical over-current monitoring** The keyboard and floppy drive over-current circuitry are monitored and an alarm is generated if a trip point is reached.
- **Breaker monitoring** Each group on the backplane is electronically protected; these breakers are monitored and an alarm is generated if a breaker is tripped.
- Fan rotation monitoring The fans are monitored and an alarm is generated if a fan fails.
- Server activity monitoring The Cubix computer boards (BC, SP, DP and CP Series) are monitored for activity and a status of each computer board is reported.
- Computer reset (automatic or on demand) The IES Module can perform a hardware reset on any Cubix computer board.
- Computer control The IES Module can place a Cubix computer board on-line or take it off-line.
- GlobalVision interface Using the IES Supervisory System, the IES Module provides monitoring and control functions for the chassis to GlobalVision, which manages all Cubix devices on the network.
- Remote control GlobalVision uses an API to any third-party remote-control application with a command line interface (e.g. Stac ReachOut®, Symantec® or Danware®) to allow the network administrator to take control of any Cubix BC, SP, DP or CP Series board across the LAN or WAN using GLOBALVISION CONSOLE.
- **SNMP instrumentation** Using the IES Supervisory System, chassis information and alarms are instrumented to support management by SNMP-instrumented management applications. Such applications must compile andbrowse the Cubix MIBs in order to use them.
- SNMP alarms GlobalVision and the IES Supervisory System feature two MIBs that store alarm information that is sent out to any and all GLOBALVISION CONSOLES established on the LAN or WAN. These alarms are listed below:
  - CPR reset sent when an IES resets a board has stopped responding to the IES poll.
  - Pending Offline reset sent when an IES resets a board when POL (polling feature) was enabled; the board is now held Offline.
  - System power failure sent when a power supply fails.
  - System power operational sent when a power supply becomes operational.
  - System fan failure sent when a fan fails.
  - System fan operational sent when a fan becomes operational.
  - System slot power off sent when a slot loses power.
  - System slot power on sent when a slot becomes operational.
  - System temperature exceeded threshold sent when a subsystem exceeded the user-specified threshold.

- System temperature within threshold sent when a subsystem returns to a normal range.
- System -5 voltage outside normal range sent when the -5 is above or below the normal range. An alert also exists for each of the following: +5V, -12V and +12V.
- System -5 voltage within normal range sent when the -5 returns to its normal range. An alert also exists for each of the following: +5V, -12V and +12V.
- IES communication failure sent when the IES Supervisor loses communication with an IES Module located inside a Cubix chassis.

#### Section 4 - Local and Remote GlobalVision Consoles

This sections helps define the differences between a "Local" GlobalVision Console and a "Remote" GlobalVision Console. Much confusion can be averted if the differences are clearly defined.

A Local GlobalVision Console is a **GLOBALVISION CONSOLE** the user **IS CURRENTLY WORKING WITH**. A Local GlobalVision Console can be running on an IES Supervisor located within a Cubix chassis monitoring the chassis and several more chassis. A Local GlobalVision Console can be running on a standalone PC located on the LAN, WAN, or across a remote-access connection.

A Remote GlobalVision Console is any other **GLOBALVISION CONSOLE** the user **IS CURRENTLY NOT WORKING WITH**. A Remote GlobalVision Console can be a running on an IES Supervisor located with a Cubix chassis monitoring the chassis and several more chassis. A Remote GlobalVision Console can be running on a stand-alone PC located on the LAN, WAN, or across a remote-access connection.

From a Local GlobalVision Console, the user can generate alarm reports or retrieve alarms from a Remote GlobalVision Consoles. A Local GlobalVision Console can send requests for actions (i.e., resetting a computer board, powering OFF a computer board, enable POL, etc.) to a Remote GlobalVision Console, but the Remote GlobalVision Console actually performs the request.

A Local GlobalVision Console which has no equipment to monitor locally should not be configured to send updates and alarms to any Remote GlobalVision Consoles as the Local GlobalVision Console really has no information to update (See Figure 4, GlobalVision Consoles "B", "C", and "E" for illustration).



Figure 4 - Typical GlobalVision Configuration

The diagram Figure 4 shows how a "typical" GlobalVision configuration may be set up for an enterprise.

- GlobalVision Console "A" Retrieves updates and alarms from GlobalVision Console "D" (across the WAN). Retrieves updates and alarms from GlobalVision Consoles "B" (across the LAN), GlobalVision Consoles "C" and "D" (across the WAN), and GlobalVision Console "E" (across the remote connection).
- GlobalVision Console "B" Retrieves updates and alarms from GlobalVision Consoles "A" (across the LAN) and GlobalVision Console "D" (across the WAN). Doesn't send any updates or alarms out to any other GlobalVision Console.
- GlobalVision Console "C" Retrieves updates and alarms from GlobalVision Console "A" (across the WAN) and GlobalVision Console "D" (across the LAN). Doesn't send any updates or alarms out to any other GlobalVision Console.
- GlobalVision Console "D" Retrieves updates and alarms from GlobalVision Consoles "A" (across the WAN). Retrieves updates and alarms from GlobalVision Consoles "A" and "B" (across the WAN), GlobalVision Console "C" (across the LAN), and GlobalVision Console "E" (across the remote connection).
- GlobalVision Console "E" Retrieves updates and alarms from GlobalVision Consoles "A" and "D" (across the remote connection). Doesn't send any updates or alarms out to any other GlobalVision Console.

## **Chapter 2 - GlobalVision Console Installation**

This chapter refers to the installation of the GLOBALVISION CONSOLE management application. Section 1 - GlobalVision Console Application Requirements

The **GlobalVision Console** application is installed on any Intel x86 based desktop system running Windows NT (v3.51 or greater, Workstation or Server). Cubix recommends that the latest Windows NT® Service Pack be reapplied at this time to insure compatibility with the latest version of GlobalVision.

GlobalVision can either be installed via floppy diskettes or via a CD-ROM. Both will contain the following installation information. If you are using floppies, there may be several diskettes necessary for installation:

- GlobalVision Console installation 3 diskettes
- GlobalVision DOS/Windows Agent installation 1 diskette
- GlobalVision Windows NT/95/98 Agents installation 2 diskettes
- GlobalVision NetWare Agent installation 1 diskette
- GlobalVision Web Interface installation 1 diskette

And, if a Linux operating system is installed, you will receive

• GlobalVision Agent for Linux installation - 1 diskette

#### NOTE!

If GlobalVision Agent is to be installed on a Linux operating system, it is recommended that only persons who have experience and knowledge of the Linux operating system perform the installation.

#### **Minimum Hardware Requirements**

To set up a **GLOBALVISION CONSOLE** to monitor Cubix equipment locally on any Windows NT® workstation requires an RS-232 (COM2) to RS-485 converter.

A **GLOBALVISION CONSOLE** monitoring Cubix equipment locally is commonly installed on a computer board in one of the chassis that the Console will monitor. This computer board is called the IES Supervisor. One **GLOBALVISION CONSOLE** can monitor up to 31 chassis. The following are minimum requirements for the IES Supervisor for the **GLOBALVISION CONSOLE**.

٠	Processor:	Pentium®	٠	Processor Speed:	133MHz
٠	Memory:	32 Mbytes	٠	Hard Drive:	2 Gbytes
٠	Drive Interface	SCSI, Fast/Wide	٠	Data Highway:	RS-485

#### Section 2 - Local GlobalVision Console Installation

**GLOBALVISION CONSOLE** is the Cubix management system for managing Cubix hardware in a LAN/WAN environment or across a remote connection. **GLOBALVISION CONSOLE** provides monitoring, alarm creation, supervisory control, and alarm and usage reporting functionality from a central management console.

Before physical installation of the **GlobalVision Console** onto a server, you must install an IES Data Highway adapter to the COM2 header. This adapter provides an interface point for the **GlobalVision Console** processor to collect IES data from all chassis in the data highway chain. Consult the Installation Guide or User's Manual for the individual system in which the IES Data Highway is to be installed. You will also need to configure the IES data highway address. The **GlobalVision Console** application uses this address to identify and communicate with each IES module. Valid IES addresses range from 1 to 31. Consult the Installation Guide or User's Manual for configuration instructions.

#### **Console Software Installation**

Installation of **GLOBALVISION CONSOLE** is one of the most critical steps to successful implementation of Cubix equipment. Though the installation instructions are easy to follow, careful consideration must be given to several key options for an error-free installation.

Please follow these **PRELIMINARY PREPARATIONS** before installing the **GLOBALVISION CONSOLE**.

- 1. **GLOBALVISION CONSOLE** can only operate on the Windows NT<sup>®</sup> 4.0 Workstation or Server. Make certain this is installed where the Console will be installed.
- 2. You must be logged on as an Administrator or someone with administrative privileges, or the software will not install properly.
- TCP/IP or IPX/SPX network protocols must be installed before GlobalVision Console is installed. You must have the TCP/IP or IPX/SPX address available during installation. If you do not know what the IP or IPX address is, you can:
  - Pull up the **START** menu
  - Go to **PROGRAMS**
  - Select COMMAND PROMPT
  - For retrieving IPX Address Information, type:

#### C:\>IPXROUTE CONFIG

For retrieving TCP/IP Address Information, type:
 C:>IPCONFIG

The TCP/IP network address must be in the format xxx.xxx.xxx, where xxx is a decimal number between 0 and 255. The "periods" are mandatory between the decimal numbers.

# The IPX/SPX network address must be in the format xxxxxxx:yyyyyyyyyyy, where xxxxxxx is an eight digit hexadecimal network number and yyyyyyyyyyy is a twelve digit hexadecimal node number. The "colon" between the network and node number is mandatory.

The GlobalVision Console installation provides the option of installing Microsoft ODBC (Open Database Connectivity) files. Ignore instructions for installing these files if Microsoft ODBC has been previously installed. The ODBC compliance guarantees all databases using this compliance will be compatible with each other. The ALARM and USAGE DATABASES are ODBC compliant. This means they can be exported to other databases for statistical and historical reporting (e.g. Microsoft® Access or Excel). This reporting can be combined with other software management packages for reporting on the entire enterprise, not just Cubix products.

Remove or disable the SNMP Service if it has been previously installed. GlobalVision Console will allow you to disable the SNMP Service during installation (refer to Step 8 in **Installation Instructions** following this section). However, SNMP Service must be installed prior to installing **GLOBALVISION AGENTS** for **WIN 95®**, **WIN98®** and **Windows NT®**. SNMP setup can be found in the **Appendix** of this manual.

It is recommended that 3-D screen savers or other CPU intensive software not be used on the **GlobalVision Console**, as this may cause interference with IES communication.

Also, please reference any pertinent user manuals for installation of the Microsoft® Windows NT® operating system, IPX/SPX and TCP/IP network protocols, SNMP Service, and for operation of the operating system.

Now you are ready to follow the INSTALLATION INSTRUCTIONS for the GlobalVision software.

- 1. Insert **GlobalVision Console** DISK 1 into the floppy drive.
- 2. Select **START**, then the **Run** option on the Windows NT® taskbar. See Figure 5 below.

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	-	Programs				
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Ň	<b>R</b>	<u>B</u> un				
Win	Ì	Shut Down				
	Start	🚟 Paint Shop Pro				1:49 PM

Figure 5 – Starting the Run dalog box

3. Type a:\setup.exe (not case sensitive) in the RUN dialog box. Click OK to continue. See Figure 6.



Figure 6– Run dialog box

4. The SETUP.EXE program loads all installation programs and files into the INSTALLSHIELD® WIZARD, which guides the rest of the installation. The INSTALLSHIELD® WIZARD SETUP screen and GLOBALVISION MARQUEE appear briefly before any installation is started. See Figures 7 and 8.



Figure 7 – Loading InstallShield® Wizard screen



Figure 8 – Setup GlobaVision marquee

5. The WELCOME dialog box will appear. After reading, click on **NEXT>.** See Figure 9.



Figure 9 – Welcome dialog box

 SOFTWARE INSTALLATION OPTIONS are displayed. Ensure that GlobalVision Files box is selected and if you would like the MICROSOFT<sup>®</sup> ODBC FILES installed (if this has not been previously installed, it is recommended to be installed), ensure that this box is selected. Click NEXT> to continue installation. See Figure 10.



Figure 10 – Software Installation Options dialog box

<u>7.</u> If SNMP service is installed and running, a warning is displayed regarding the fact that Microsoft® SNMP service must <u>not</u> be installed or running during installation of GlobalVision Console. Ensure **Turn off SNMP Services** is selected. Click on **OK>**. 8. If SNMP Service is installed but not running, a SNMP Service INFORMATION message box will appear. This warning message informs you that SNMP Service is installed. The message also warns that GlobalVision and SNMP Service cannot run at the same time. Click **OK** to continue installation. See Figure 11. If SNMP Service is not installed, this message will not appear.



Figure 11 – SNMP Service Information message

 A USER INFORMATION dialog box. Appears. This information is used to register the GLOBALVISION CONSOLE. Enter a name and a company name into the NAME and COMPANY text boxes, respectively. Click NEXT to continue. See Figure 12.

User Information		X
	Type your name below. You must also type the name of the company you work for.	
	Name: Roger J. Pflieger	
Ś		
	< <u>Back Next&gt;</u> Cancel	

Figure 12 – User Information dialog box

- 10. Question appears, asking if GlobalVision is being installed on a Cubix board. Click "yes" or "no".If you chose "yes", you must enter the IES Data Highway Address and Group Number of the Cubix board where GlobalVision is to be running. See Figure 13. If you chose "no", this information is not necessary, and a Hardware Address information screen appears.
  - The IES Address is the assigned chassis number wherein the board is. One GlobalVision Console can monitor up to 31 chassis locally. The IES Address is used to differentiate between the different chassis.
  - The Group Number is the number of the group where the board is located within the chassis.

GlobalVision Hardware A	ddresses	×
	Please enter the IES Data Highway Address an Number on which this copy of Setup is running.	d the Group
	IES	
	Group	
- 45		
•		
	< <u>B</u> ack <u>N</u> ext>	Cancel

Figure 13 – Enter IES Information and Group Information
11. You must then type in the IP and/or IPX address of the computer to be used for GlobalVision Console. Click Next>. See Figure 14.

GlobalVision's IP/IPX A	ddress	×
	Please ent console. F consult the	er the IP and/or IPX address of this GlobalVision or information on how to obtain the IP or IPX address, GlobalVision Quick Start Guide.
	IP	100.100.100.114
	IPX	0000000:0020940811E2
<b>\$</b>		
		< <u>Back</u> <u>N</u> ext> Cancel

Figure 14– IP/IPX Address dialog box

12. The next screen allows you to select the directory wherein you would like to install the GlobalVision and the Microsoft ODBC files. The Default is set for you as C:\GV\. Make your choice and click NEXT> to continue installation. See Figure 15. [Note: If you choose a directory name that has not been created yet, a Confirm Newly Selected Directory will come up that asks if the SetUp should create it for you. Answer "Yes" or "No". See Figure 16.]

Select Destination Direc	story 🔀
	Setup will install GlobalVision and the Microsoft ODBC files in the following directory. To install to this directory, click Next. To install to a different directory, click Browse and select another directory. You can choose not to install GlobalVision and the Microsoft ODBC files by clicking Cancel to exit Setup.
	Destination Directory C:\GV\ Browse
	< Back Next>

Figure 15– Select Destination Directory dialog box

Confirm Newly Selected Directory
You have entered the following directory specification: C:\GV\
This directory does not exist. Should Setup create it for you?
Yes <u>N</u> o

Figure 16 – Confirm Newly Selected Directory

 Select the program folder where you would like to install GlobalVision icons via the SELECT PROGRAM FOLDER dialog box. The default is GlobalVision. Click NEXT to continue installation. See Figure 17.



Figure 17– Select Program Folder dialog box

14. The START COPYING FILES dialog box is displayed. The options that have already been selected are listed. If you wish to change them, select the **<Back** option which takes you back to the previous screens where changes can be made. If you are ready to continue, select **Next>**. See Figure 18.



Figure 18 – Start Copying Files dialog box

15 Insert DISKS 2 and 3 into the floppy drive when prompted (this will not apply if you are using the CD-ROM). A Browse feature will allow you to choose a different destination directory for each disk, or you can click **OK** to continue installation in the same directory. See Figures 19 and 20.

Setup Needs	The Nevt Disk	×
F	N Please insert the next disk, Disk 2. If the files can be found in another location, for example drive, enter its full path or click the Browse bu its path.	on this disk e, in another utton to select
Path:		
<u>A:</u> \		Browse
	ОК	Cancel

#### Figure 19 – Insert Disk 2

Setup Needs	The Next Disk	х
F	Please insert the next disk, Disk 3. If the files on this disk can be found in another location, for example, in another drive, enter its full path or click the Browse button to selec its path.	:t
Path:		
A:N	Browse	
	OK Cancel	
Figure 20 – Insert Disk 3		

16. If you had previously selected that the ODBC drivers be installed, Click **OK** on the INFORMATION message box to continue installation. See Figure 21.



Figure 21 - Microsoft® ODBC Files Information message box

17. An Information screen will appear stating the ODBC install is complete. Click on **OK** to exit the ODBC setup program. See Figure 22.



Figure 22 – ODBC Information message box

- The next screen informs you that the ODBC installation files are no longer needed, as they were only needed for installing ODBC. Select "yes" to delete the ODBC Installation files. Click NEXT> to continue installation.
- 19 The Information screen informs you that setup has completed the installation of GlobalVision. Click **OK** and the README file will display. See Figure 23.



Figure 23 – Setup Complete dialog box

## **Chapter 3 – GlobalVision Web Installation**

GlobalVision Web (GV Web) is a Common Gateway Interface (CGI) script that provides some of the functionality of GlobalVision over an HTTP connection. Once installed, administrators can manage and control Cubix systems across the WAN. Cubix servers can be monitored, locked processors can be reset and servers can be powered up and powered down. GlobalVision Web provides convenience and ease of use. The following information explains requirements, installation and operation of GV Web. See Figure 24.



Figure 24 – GlobalVision WEB Interface

#### Section 1 – GlobalVision Web Application Requirements

To set up GV Web, you must have the following:

- Microsoft Windows NT 3.51 or greater must be installed
- GV Web must be installed on Microsoft Internet Information Server or other Windows based HTTP Server that supports CGI scripts must be installed
- GlobalVision 2.0 or greater must be installed on the Cubix computer to be managed via GV Web
- An HTTP browser capable of supporting frames must be present

#### NOTE! It is recommended that access to GV Web be password secured.

#### NOTE!

No more than 9 GlobalVision Consoles should be authorized access over the Internet connection at one time.

#### Section 2 – GlobalVision Web Installation

To install GV Web, read and follow these instructions.

- 1. Insert the GlobalVision Web floppy diskette or CD-ROM into the appropriate drive.
- 2. Select **START**, then the **RUN** option on the Windows NT® taskbar.
- 3. The SETUP.EXE program loads all installation programs and files into the **INSTALLSHIELD WIZARD**, which guides the rest of the installation. The INSTALLSHIELD WIZARD SETUP progress bar appears. See Figure 25.



Figure 25 – GlobalVision Web Setup screen

4. The WELCOME dialog box appears. Read carefully, as it STRONGLY RECOMMENDS that all **Windows programs be exited** before running the Setup program. After reading, click on **NEXT>**. See Figure 26.



Figure 26 – Welcome dialog box

 The next screen allows you to select the directory wherein you would like to install GV Web. The default is set for you as C:\InetPub\scripts. Make your choice and click NEXT> to continue installation. See Figure 27.



Figure 27 – Select Destination Directory dialog box

 The START COPYING FILES dialog box is displayed. The options that have already been selected are listed. If you wish to change them, select the <Back option which takes you back to the previous screens where changes can be made. If you are ready to continue, select Next>.
 See Figure 28.



Figure 28 – Start Copying Files dialog box

7. An Information screen will appear stating the GV Web Setup is complete. When you click on **Finish**, a README file appears. See Figrue 29.



Figure 29 – Setup Complete dialog box

8. When you have finished reading the README file, click **OK** to exit.

# **Chapter 4 – GlobalVision Agent Installation**

#### Overview

For the **GLOBALVISION CONSOLES** to receive information from the computer boards, **GLOBALVISION AGENTS** and **IES RESPONDERS** must be loaded onto the boards. This chapter refers to the installation of the **GLOBALVISION Agents** and the **IES RESPONDERS** for Windows NT<sup>®</sup>, Windows 95<sup>®</sup>, Windows 98<sup>®</sup> and DOS/Windows<sup>®</sup> 3.x and Novell<sup>®</sup> NetWare<sup>®</sup> servers. There is an **IES RESPONDER** available for the OS/2<sup>®</sup> operating system, but not a **GLOBALVISION AGENT**. This chapter will describe installation instructions for the above mentioned agents.

**GLOBALVISION AGENTS** provide the SNMP Agents for the boards to send status, inventory, and usage information, as well as traps, inside SNMP packets across the network. The **GLOBALVISION AGENTS** also can receive SNMP commands from the **GLOBALVISION CONSOLE**. The **GLOBALVISION CONSOLE** serves as a proxy SNMP Agent for the IES Module and provides IES status and IES-related alarms.

**IES RESPONDERS** running on the computer boards support the **GLOBALVISION CONSOLE** by responding to the IES status poll. The IES polls and commands run on the Cubix "out-of-band" data highway, which runs between each chassis.

The **GLOBALVISION AGENT** and **IES RESPONDER** installed on each computer board depends on the operating system installed on the board. The operating systems available are: Windows NT<sup>®</sup> Agent, DOS/Windows<sup>®</sup> 3.1 Agent, Windows 95/98<sup>®</sup> Agents, and Novell<sup>®</sup> NetWare<sup>®</sup> Agent and Linux Agents. There is an **IES RESPONDER** available for the OS/2<sup>®</sup> operating system, but not a **GLOBALVISION AGENT**.

#### Section 1 - Before You Begin

Before you begin installing GlobalVision Agents you should have the following information available:

Install Directory - Location where GlobalVision files will be installed

**GlobalVision Console Address** – For IPX networks, this is the network number and MAC Address of the NT station where GlobalVision is installed:

#### 0000080:0020940200D5

For TCP/IP networks, this is the IP address of the NT station where GlobalVision is installed:

#### 128.135.127.201

For detailed instructions on obtaining the TCP/IP or IPX/SPX address, refer to the Appendix.

**Trap Interval** – The frequency, in seconds at which the GlobalVision Agent sends trap information to the GlobalVision Console. Thirty seconds is the default setting.

**IES Address** – The IES Data Highway address (1-31) assigned to the processor board. This address is set with one DIP switch on the surface of the IES for ERS/FT II and Density systems. For more information regarding setting the Data Highway address refer to the hardware installation and operation manual for the system being used.

**Group** – The backplane group (segment) number (1-8) where the processor board is installed. The group number is displayed on the front panel of the enclosure.

#### Section 2 – Installation of GlobalVision Agents for Windows NT<sup>®</sup>/ Windows 95<sup>®</sup>/Windows 98<sup>®</sup>

The **GLOBALVISION AGENTS** and **IES RESPONDERS** for the Windows NT<sup>®</sup> operating system are available for Windows NT<sup>®</sup> versions 3.51 and 4.0. The Agent and Responder are exactly the same for both versions of the operating system. Installation of the **GLOBALVISION AGENT** and **IES RESPONDER** is necessary for any management of the computer board to occur. The Cubix Windows NT/95/98 SNMP Agent provides status, inventory and usage information to the GlobalVision Console.

#### Agent and Responder Installation

Installation of the **GLOBALVISION AGENT** and **IES RESPONDER** is very important to successful implementation of Cubix equipment. The installation instructions are easy to follow. However, if you have any questions or problems which arise during installation, do not hesitate to call Cubix's technical support staff for assistance. Support information is listed in the **Appendix** of this manual.

Please follow the following installation instructions for installing the **GLOBALVISION AGENT AND IES RESPONDER** for Windows NT®/Windows 95®/Windows 98® operating systems. The Windows SNMP service is **required** by the GlobalVision Windows NT/95/98 Agent. The SNMP service is automatically installed by the Cubix Windows NT/95/98 Agent Setup. Windows NT **will require that you install** the SNMP service before installing the agent. How to set up the SNMP protocol can be found in the **Appendix** of this manual.

- 1. Boot the Agent computer and start Windows.
- Insert (Windows NT, Windows 95 or Windows 98) floppy diskette or CD-ROM into the appropriate drive.
- 3. Select the **START**, then the **Run** option on the Windows NT<sup>®</sup> taskbar. See Figure 30.

My Computer		
Network Neighborhood		
inbox		
Programs	•	
<b>B</b> 🔆 <u>D</u> ocuments	•	
ters <u>S</u> ettings	•	
🖉 🔬 Eind	•	
🛓 🧇 Help		
🦉 🐺 <u>B</u> un		
Shut Down		
🔀 Start 🚆 Paint Shop I		1:49 PM

Figure 30 – Starting the Run dialog box

4. Type **a:\setup.exe** in the RUN dialog box. Click **OK** to continue. See Figure 31.



Figure 31 – Run dialog box

 The INSTALLSHIELD<sup>®</sup> WIZARD SETUP screen and GLOBALVISION MARQUEE appear briefly before any installation is started. See Figures 32 and 33.



Figure 32 – Loading Install Shield® Wizard screen



Figure 33 – Setup GlobalVision marquee

 A standard INSTALLSHIELD® WIZARD WELCOME dialog box appears next. This gives copyright information and a warning to exit all programs while installing the GLOBALVISION AGENT. Click Next> to continue. See Figure 34.



Figure 34 – Welcome dialog box

 Next, the SOFTWARE INSTALLATION OPTIONS dialog box appears. Ensure that GlobalVision Agent and IES Responder Driver are selected. Click NEXT to continue installation. See Figure 35.



Figure 35 – Software Installation Options dialog box

 If SNMP is currently running, a STOP SNMP SERVICE message box will appear. It is recommended that the SNMP service be stopped during agent installation. Default is to stop SNMP. Click NEXT> to continue installation. See Figure 36.

Stop SNMP Service	×
	Setup prefers that the SNMP Service be stopped while installing the GlobalVision Agent.
$\sim$	stop the SNMP Service
	O do not stop the SNMP Service
	Choose whether or not you want to stop the SNMP Service.
	<back next="">N Cancel</back>

Figure 36 – Stop SNMP Service dialog box

 The SELECT DESTINATION DIRECTORY dialog box appears next. The destination directory is the directory where the Agent will be placed. The default directory is C:\GV\. If another directory is desired, click on the BROWSE... button, which invokes a standard Windows browse dialog box. Click NEXT to continue installation. See Figure 37.

Select Destination Direc	tory 🗙
	Setup will install the GlobalVision Windows NT Agent in the following directory. To install to this directory, click Next. To install to a different directory, click Browse and select another directory. You can choose not to install the GlobalVision Windows NT Agent by clicking Cancel to exit Setup.
	Destination Directory
	C:\GV\BIowse
	Kack Next> Cancel

Figure 37 – Select Destination Directory dialog box

 Select the program folder in the SELECT PROGRAM FOLDER dialog box. The program folder is the folder or group where the ReadMe icon will be located. The default program folder name is GlobalVision Agent. If another program folder name is desired, enter it into the PROGRAM FOLDERS text box. Click NEXT to continue installation. See Figure 38.

Select Program Folder		×
	Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing Folders list. Click Next to continue. Program Folders: Globa/Vision Agent Egisting Folders: Administrative Tools (Common) Globa/Vision NetOp Paint Shop Pro Startup WinFrame Client	
	< <u>Back Next&gt;</u> Cancel	

Figure 38 – Select Program Folder dialog box

11. Select the type of Cubix computer board on which the **GLOBALVISION AGENT** is being installed in the **CHOOSE BOARD TYPE** dialog box. This may be indicated on the board, on the invoice, or in supporting documentation for the board. Click on the appropriate board description. Click **NEXT** to continue installation. See Figure 39.

Choose Board Type		×
Choose Board Type	Click on the processor board installed: BC 51505E/SP BC 5166E/EP BC 5166F/SE/SP BC 5166F/SE/SP BC 5166T5 BC 5166T5 BC 5200E/EP BC 5200E/EP BC 5200F/SE/SP BC 5200TE BC 5200TE BC 5200TE BC 5200TS DP 6200 other	
	< Back Next > C	Cancel

Figure 39 – Choose Board Type dialog box

- 12. The IES ADDRESS/GROUP NUMBER dialog box appears. Do the following in this dialog box:
  - Enter the IES Address of the chassis where the board is located into the IES ADDRESS text box. One GlobalVision Console can monitor up to 31 chassis locally. The IES Address is used to differentiate between the different chassis.
  - Enter the Group Number into the GROUP NUMBER text box. The Group Number is the number of the group where the board is located within the chassis.
  - Click **NEXT** to continue installation. See Figure 40 for details.

IES Address/Group Num	nber		×
	Enter the I address (1 processor	IES (Intelligent Environment Sensor) data highway I-31) and the group number (1-8) with which this is associated.	
	Address:	4	
	Group:	5	
<b>*</b>			
		(Rack Next) Cancel	-

Figure 40 – IES Address/Group Number dialog box

13. The SELECT SNMP TRAP INTERVAL dialog box appears. The GlobalVision Agent sends out SNMP information across the network every number of seconds. The number of seconds may need to be lengthened or shortened, depending on the activity on the network or the amount of time it takes for the operating system to boot. Enter in the number of seconds in the INTERVAL text box. Click NEXT to continue installation. See Figure 41.



Figure 41 – Select SNMP Trap Interval dialog box

- 14. All necessary files and programs for the GLOBALVISION AGENT will now be transferred from the floppy disks to hard drive. If you are using the floppy method of installation, insert DISK 2 into the floppy drive when prompted. Click **OK** after inserting the next disk.
- 15. All necessary files and programs for the **GLOBALVISION AGENT** will now be transferred from the floppy disks to hard drive. Insert DISK 2 into the floppy drive when prompted. Click **OK** after inserting the next disk. See Figure 42.

Setup Needs	The Next Disk	×
F	トヴ Please insert the next disk, Disk 2. If the files can be found in another location, for example drive, enter its full path or click the Browse bu its path.	on this disk , in another tton to select
Path:		B <u>r</u> owse
	OK	Cancel

Figure 42 – Insert Disk 2

- 16. SNMP Service will be started after the files are transferred from the installation disks. A message briefly appears stating this.
- 17. IES RESPONDER installation will now begin. A message briefly appears stating this.
- A standard INSTALLSHIELD® WIZARD WELCOME dialog box appears next. This gives copyright information and a warning to exit all programs while installing the IES RESPONDER. Click NEXT to continue installation. See Figure 43.



Figure 43 – IES Responder Installation Welcome dialog box

- 19. Select the correct interrupt value in the CHOOSE INTERRUPT dialog box. IES RESPONDER must use Interrupt (IRQ) 10 or 15 to operate properly. The interrupt value selected in this dialog box must match the interrupt value physically set on the computer board. Please refer to the appropriate documentation for determining the interrupt value of a computer board. Select the correct interrupt value for the configuration of the computer board by clicking in the appropriate radio button. Click NEXT to continue installation. See Figure 44.
  - IRQ 10 used by all Density computer boards, some ERS/FT II boards when the secondary IDE controller is used and many third-party boards
  - IRQ 15 Used by ERS/FTII computer boards when the secondary IDE controller is not used



Figure 44 – Choose Interrupt dialog box

 Select the destination directory in the SELECT DESTINATION DIRECTORY dialog box. The destination directory is the directory where the Agent will be placed. The default directory is C:\CUBIX\IES\. If another directory is desired, click on the BROWSE... button, which invokes a standard Windows® browse dialog box. Click NEXT to continue installation. See Figure 45.

Select Destination Direct	ctory 🗙
	Setup will install the Cubix IES Responder Driver in the following directory.
	To install to this directory, click Next.
	To install to a different directory, click Browse and select another directory.
	You can choose not to install the Cubix IES Responder Driver by clicking Cancel to exit Setup.
	Destination Directory
	C:\Cubix\les\B_owse
	< <u>B</u> ack <u>Next</u> ≻

Figure 45 – Select Destination Directory dialog box

21. The **CONTINUE INSTALLATION** dialog box appears next. This dialog box informs you that there is enough information to install the **IES RESPONDER.** Click **NEXT** to continue. See Figure 46.

Continue Installation	×
	Setup has enough information to install the Cubix IES Responder Driver. Click Next to continue.
	< <u>Back</u> Cancel

Figure 46 – Continue Installation dialog box

22. Click OK to continue installation in the INFORMATION message box. See Figure 47.



Figure 47 – IES Responder Installation Complete message box

23. The SETUP COMPLETE dialog box will appear. Installation of the **GLOBALVISION AGENT** and **IES RESPONDER** has been completed. There is a ReadMe file which contains troubleshooting tips. Click **FINISH** to complete installation and display ReadMe file. See Figure 48.



Figure 48 – Setup Complete dialog box

24. After reading the ReadMe file, close it. And close any open applications or files, down the operating system, and reboot the computer. Once the operating system is back up, the computer board should start being monitored by the **GLOBALVISION CONSOLE**.

#### Section 3 –GlobalVision Agent Installation for DOS/Windows<sup>®</sup> 3.x (DOS/Windows<sup>®</sup> 3.x No Longer Supported)

The **GLOBALVISION AGENTS** and **IES RESPONDERS** for the DOS/Windows<sup>®</sup> 3.x operating systems are available for all versions. Installation of the **GLOBALVISION AGENT** and **IES RESPONDER** is necessary for any management of the computer board to occur. The Cubix DOS IES Responder, CBXIES.SYS supports GlobalVision by providing the primary status for Cubix processors. The Cubix SNMP Agent for DOS provides status, inventory and usage information to the GlobalVision.

#### Agent and Responder Installation

Installation of the **GLOBALVISION AGENT** and **IES RESPONDER** software is one of the most critical steps to successful implementation of Cubix equipment. Though the installation instructions are easy to follow, careful consideration must be given to several key options for an error-free installation.

The installation disks contain software for installing **GLOBALVISION AGENT** and **IES RESPONDER** files. The following installation instructions assume both **GLOBALVISION AGENT** and **IES RESPONDER** files will be installed. If only one is installed, follow instructions carefully, as you will be notified how to procede.

Please follow the following installation instructions for installing the **GLOBALVISION AGENT** and **IES RESPONDER** for DOS/Windows<sup>®</sup> 3.x. The installation instructions for both operating systems are very similar. Any differences will be noted.

#### Installation for DOS/Windows<sup>®</sup> 3.x

- 1. Insert the floppy diskette or the CD-ROM into the appropriate drive.
- 2. Select File, then the Run... option in PROGRAM MANAGER. See Figure 49.
|                           |  |  | Program                          | n Manager                            |                                    |                     | -                            |  |
|---------------------------|--|--|----------------------------------|--------------------------------------|------------------------------------|---------------------|------------------------------|--|
| <u>File</u> Option        | s <u>W</u> indow   | <u>H</u> elp                             |                                  |                                      |                                    |                     |                              |  |
| <u>N</u> ew               |  |  |                                  |                                      |                                    |                     |                              |  |
| <u>O</u> pen              | Enter  |  |                                  |                                      |                                    |                     |                              |  |
| <u>M</u> ove              | F7   |  |                                  |                                      |                                    |                     |                              |  |
| <u>С</u> ору              | F8   |  |                                  |                                      |                                    |                     |                              |  |
| <u>D</u> elete            | Del  |  |                                  |                                      |                                    |                     |                              |  |
| <u>P</u> roperties.       | Alt+En   | ter                                      |                                  |                                      |                                    |                     |                              |  |
| <u>R</u> un               | k  |  |                                  |                                      |                                    |                     |                              |  |
| E <u>×</u> it Windo       | ws   |  |                                  |                                      |                                    |                     |                              |  |
| eea<br>420<br>Accessories | ee<br>ee<br>ee<br>ee<br>ee<br>ee<br>ee<br>ee<br>ee<br>ee<br>ee<br>ee<br>ee | <u>ৰিৰ্বাৰ</u><br><u>ৰ প্ৰত</u><br>Games | <u>≜ ब म</u><br>∡ ⊻ ∎<br>StartUp | 분호표<br><u>속 또 ම</u><br>NetWare Tools | <mark>⊜ e ≞</mark><br>⊴⊻ e<br>Main | ee≞<br>∡⊻e<br>NetŪp | 분명표<br>4년9<br>Paint Shop Pro |  |
|                           |  |  |                                  |                                      |                                    |                     |                              |  |
|                           |  |  |                                  |                                      |                                    |                     |                              |  |
|                           | Figure 49 – Starting RUN dialog box  |  |                                  |                                      |                                    |                     |                              |  |

3. Type **a:\setup.exe** in the COMMAND LINE text box in the **RUN** dialog box. Click **OK** to continue. See Figure 50.

😑 Run	
<u>C</u> ommand Line: a:\setup.exe Run <u>M</u> inimized	OK Cancel <u>B</u> ro <del>w</del> se
	<u>H</u> elp

Figure 50 – RUN dialog box

4. The SETUP.EXE program opens up a DOS window, from which the rest of the installation will be completed. The SETUP.EXE program will execute from the DOS window. Please proceed to Step 1 under the DOS/Windows® 3.x Installation below.

#### Installation for DOS

1. From the DOS prompt, type **a:\** and press **<ENTER>**. See Figure 51.



Figure 51 – DOS Prompt Installation

2. At the a:\ prompt, type setup and press <ENTER>. See Figure 52.

A:∖∕setup	R			

Figure 52 – DOS Prompt Installation

# DOS/Windows<sup>®</sup> 3.x Installation

 Choose the software to install in the SOFTWARE INSTALLATION OPTIONS screen. Select GLOBALVISION AGENT, IES RESPONDER DRIVER, or INSTALL AGENT AND RESPONDER by highlighting the desired option. Press <ENTER> to continue installation. See Figure 53.



Figure 53 – Software Installation Options

- IF INSTALLING IES RESPONDER DRIVER ONLY, SKIP TO INSTRUCTION #4. OTHERWISE, CONTINUE WITH THE NEXT INSTRUCTION.
- Do the following in the GLOBALVISION AGENT SETUP FOR DOS/WINDOWS 3.1x screen. See Figure 54.
  - Enter the directory for the GLOBALVISION AGENT to be placed in the INSTALLATION DIRECTORY text box. The default directory is C:\NWCLIENT\.

- Enter the TCP/IP or IPX network address of the Local GlobalVision Console into the GLOBALVISION CONSOLE ADDRESS (TRAP TARGET) text box.
- Enter how often the GLOBALVISION AGENT will send out SNMP traps to the GLOBALVISION CONSOLE in the TRAP INTERVAL text box. The GLOBALVISION AGENT will send out SNMP information across the network every number of seconds. The number of seconds may need to be lengthened or shortened, depending on the activity on the network. Enter the number of seconds in the TRAP INTERVAL text box.
- Enter the IES Address of the board into the DATA HIGHWAY ADDRESS text box. One Local GlobalVision Console can monitor up to 31 chassis locally. The IES Address is the way to differentiate between the chassis. Please see the appropriate supporting documentation for the type of the chassis the board is located in.
- Enter the Group Number of the board GROUP NUMBER text box. The Group Number is the number of the group where the board is located within the chassis.
- Click **OK** to continue installation.

-	MS-DOS Compt	▼ ▲
GlobalVi	ision DOS Agent v2.00 Thursday February 12, 1998	3:04 pm
	Cubix GlobalVision Agent Setup for DOS/Windows 3.1x	
	Installation Directory: c:\nwclient GlobalWision Console Address:	
	(Trap Target) 0000000:0020940811E2	
	Trap Interval 30	
	Data Highway Address 4	
	Group Number 1	
GlobalVis processor	OK CANCEL	Cubix
The IES R		ES modules
F1 - Help	F3 - Edit   ↑↓ or TAB Next item   Esc - Main Menu   Enter	- Proceed
<b>+</b>		•

Figure 54 – GlobalVision Agent Setup for DOS/Windows® 3.1x

3. The installation program will place the information from **the GLOBALVISION AGENT SETUP FOR DOS/WINDOW 3.1x** screen into the NET.CFG file. A warning message appears asking if the NET.CFG file can be modified. Enter **<Y>** at the warning message box to modify the NET.CFG file. See Figure 55.

-	MS-DOS Pronjot	<b>-</b>
GlobalVi	sion DOS Agent v2.00 Thursday February 12, 1998	3:05 pm
	Cubix GlobalVision Agent Setup for DOS/Windows 3.1x         Installation Directory: c:\nwclient         GlobalVision Console Address:         (Trap Target)       00000000:0020940811E2         Trap Interval       30         Are you sure you want to modify the net.cfg file? Y/N         Group Number       1	
GlobalVis processor	OK	Cubix
The IES R	lener in the second	ES modules
F1 - Help	F3 - Edit   14 or TAB Next item   Esc - Main Menu   Enter	- Proceed
•		•

Figure 55 – Modify NET.CFG message box

• IF INSTALLING GLOBALVISION AGENT ONLY, SKIP TO INSTRUCTION #6. OTHERWISE, CONTINUE WITH THE NEXT INSTRUCTION.

4. The **IES RESPONDER DRIVER SETUP (DRIVE LETTER) SCREEN APPEARS NEXT.** Enter the drive letter of the boot drive of the computer board into the drive letter text box. Click **OK** to continue installation. See Figure 56.



Figure 56 – IES Responder Driver Setup, Driver Letter

5. The IES RESPONDER DRIVER SETUP (INTERRUPT) screen will appear. Enter the correct interrupt value into the INTERRUPT text box. IES Responder must use interrupt (IRQ) 10 or 15 to operate properly. The interrupt value selected in this dialog box must match the interrupt value physically set on the computer board. Please refer to the appropriate documentation for determining the interrupt value of a computer board. Enter the interrupt value in the IES RESPONDER DRIVER SETUP (INTERRUPT) screen. Click ENTER to continue. See Figure 57.

-	MS-	DOS Prompt		▼ ▲
Globa	1Vision DOS Agent v2.00	Thursday	February 12, 1998	3:06 pm
	IES Respo	onder Driver Set	աթ	
	This utility will copy the the root directory of your CONFIG.SYS file to load CI	e Cubix Responde r boot drive. It 3XIES.SYS.	r, CBXIES.SYS, to will modify your	
	Enter the interrupt <10 or Interrupt: 15	• 15) to be used	by CBXIES.SYS	
	The interrupt chosen above Interrupt" switch setting the appropriate Cubix inst Note that the secondary II IRO 15 and therefore may c	e must match the on the Cubix pr tallation guide DE controller (i conflict.	"Supervisory ocessor. Consult for information. f enabled> uses	
Global proces	CANCEL		ENTER	×
The IE				dules
F1 - He	lp   F3 - Edit   ↑↓ or TAB Ne	ext item   Esc -	• Main Menu   Enter	- Proceed
+				+

Figure 57 – IES Responder Driver Setup, Interrupt

6. A message box appears next stating the old NET.CFG file has been saved and a new NET.CFG file has been created. Press **<ESC>** at the warning message box notifying the NET.CFG file has been modified to continue installation. See Figure 58.



Figure 58 – Saving NET.CFG File

7. Several VLM files may need to be replaced because the versions GlobalVision uses may be newer than the existing versions. GlobalVision may not monitor this computer board correctly if the VLM files are not replaced. It is recommended to replace any VLM files the installation requests to be replaced. Message boxes will appear for each one that gets replaced, confirming that they should be replaced. Press <A> at the warning message box to replace existing VLM files to continue installation. See Figure 59.



Figure 59 – File Replacement Confirmation messages

8. The next screen is a warning message to make sure the STPIPX.COM or STPUDP.COM file is loaded. These files are used by the GLOBALVISION AGENT to create SNMP traps and packets to send to the GLOBALVISION CONSOLE. The file that needs to be loaded depends on the network protocol used: STPIPX.COM for IPX; STPUDP.COM for TCP/IP. Either of these files must be loaded in the AUTOEXEC.BAT or STARTNET.BAT file to continue installation. See Figure 60.

				k	MS-DOS P	rompt					•
G1	obalVisio	DOS	Agent	v2.00		Thursday	February	12,	1998	3:08	pm
Ī	In order	for	the Glo	balVisio	n Agent	to send tr	aps to the	e G1	oba1Vi	sion	1
	Console, that you	STPI add	PX.COM the app	or STPUD ropriate	P.CŎM mu file to	st be load either yo	ed. It is ur AUTOEXI	rec EC.B	ommend AT or	led	
	STHRIMET	BHI	wnere y	Press	<pre>r networ <esc> t</esc></pre>	o continue	e loaded.				
4											
	1										

Figure 60 – STPIPX.COM / STPUDP.COM warning message

# Section 4 – GlobalVision Agent Installation for Novell<sup>®</sup> NetWare<sup>®</sup>

The **GLOBALVISION AGENTS** and **IES RESPONDERS** for Novell<sup>®</sup> NetWare<sup>®</sup> file servers are available for all versions. Installation of the **GLOBALVISION AGENT** and **IES RESPONDER** is necessary for any management of the computer board to occur.

#### Agent and Responder Installation

Installation of the **GLOBALVISION AGENT** and **IES RESPONDER** software is one of the most critical steps to successful implementation of Cubix equipment. Though the installation instructions are easy to follow, careful consideration must be given to several key options for an error-free installation.

Please follow the following installation instructions for installing the **GLOBALVISION AGENT** and **IES RESPONDER** for Novell<sup>®</sup> NetWare<sup>®</sup> file server. The installation instructions are broken up into two sections: DOS Installation and NetWare<sup>®</sup> Installation. DOS Installation must be completed first, then NetWare<sup>®</sup> Installation can be completed.

#### **DOS** Installation

The INSTALL.EXE program will copy CBXIES.SYS and CBXNWPLU.EXE to the root directory. The INSTALL.EXE program will modify the CONFIG.SYS file to load CBXIES.SYS and will execute the CBXNWPLU.EXE to create the date file CBXNWPLU.DAT.

- 1. At the NetWare<sup>®</sup> file server, boot the computer board to the DOS prompt. **DO NOT** start the network file server.
- 2. Insert floppy diskette or CD-ROM into the appropriate drive. Set aside the other successive installation disks to use when prompted.
- 3. From the DOS prompt, type a:\ and press <ENTER>.
- 4. At the a:\ prompt, type cd install and press <ENTER>.
- 5. At the a:\install prompt, type install.exe and press <ENTER>.
- 6. Follow the prompts provided by the INSTALL.EXE program to install the IES RESPONDER.
- 7. Reboot the NetWare<sup>®</sup> file server.
- 8. Continue with the NetWare<sup>®</sup> Installation instructions.

## NetWare<sup>®</sup> Installation

The SETUP.EXE program will create the CBXNODE.NCF file and will copy the CBXNDNW.NLM and CBXIES.NLM files to the root SYSTEM directory. The SETUP.EXE program will create the CBXNODE.INI file and modify the TRAPTARG.CFG file in the ETC sub-directory.

- 1. Log into the NetWare<sup>®</sup> file server from a workstation connected to the network.
- 2. Insert DISK 1 into the 3.5" floppy drive. Set aside the other successive installation disks to use when prompted.
- 3. From the DOS prompt, type a:\ and press <ENTER>.
- 4. At the a:\ prompt, type cd setup and press <ENTER>.
- 5. At the a:\setup prompt, type setup.exe and press <ENTER>.
- 6. Follow the prompts provided by the SETUP.EXE program to install the NetWare<sup>®</sup> IES Responder and GlobalVision SNMP Agent.

- Update the AUTOEXEC.NCF file to load CBXNODE.NCF (The additions, deletions and modifications to the AUTOEXEC.BAT file for Novell® Netware® Agent are the same as for the DOS/Windows® 3.x Agent) or add the lines in the CBXNODE.NCF file to the AUTOEXEC.NCF file.
- 8. Properly down and reboot the NetWare<sup>®</sup> file server. The **IES RESPONDER** and **GLOBALVISION AGENT** should load as the file server is brought back up. Please refer to the user's manual for the NetWare<sup>®</sup> file server for the proper procedures for correctly downing the server.

#### NOTE!

If the old IES RESPONDER, BCACTIVE.NLM, is loaded in the AUTOEXEC.NCF file, it should be removed. Previous references to SNMP.NLM file should also be removed from the AUTOEXEC.NCF file.

# Section 5 – GlobalVision Agent Installation for REDHAT LINUX and TURBOLINUX

The **GLOBALVISION AGENTS** for the Redhat Linux operating system are available for Redhat Linux versions 6.0 and 6.1 and the TurboCluster Server version 4.0 on INTEL x86 architectures. The **GLOBALVISION AGENT** is necessary for any management of the computer board to occur. The Cubix version of the SNMP Agent provides status, inventory and usage information to the GlobalVision Console.

## Agent Installation

Installation of the **GLOBALVISION AGENT** is important to successful implementation of Cubix equipment. The installation instructions are quite clear, however, only persons who are familiar with **REDHAT LINUX** and **TURBOLINUX** operating systems should perform Agent Installation. When you reach Step 12, it will be crucial to note that the proper directory must be installed with the proper operating system.

It should further be noted that the **GLOBALVISION AGENT** will not run concurrently with Enlighten DSM. **GLOBALVISION AGENT** can also be downloaded from the Cubix website at: www.cubix.com

The following instructions will guide you through installation.

- 1. Boot the Agent computer and start operating system.
- 2. Log in as: "root" This can be done either through text or graphics.
- 3. Go to a shell prompt.
- 4. Verify SNMPD is **not** running. To verify SNMPD is not running, type: **ps ax | grep snmpd**. If the screen matches the screen below, SNMPD is not running. See Figure 61. If SNMPD is running, consult your REDHAT LINUX manual for instructions on how to shut SNMPD down.

```
[root@nameserver /root]# ps ax ¦ grep snmpd
15170 pts/0 S 0:00 grep snmpd
[root@nameserver /root]# ps ax ¦ grep gvtrapd
15172 pts/0 S 0:00 grep gvtrapd
[root@nameserver /root]#
```

#### Figure 61 – Verifying Shut Down of SNMPD

- 5. Insert the GlobalVision Agent for Linux Diskette.
- 6. Mount floppy by typing: mount /dev/fd0 /mnt/floppy -t msdos Press "enter". See Figure 62.

```
[root@nameserver /root]# ps ax ! grep snmpd
15170 pts/0 S 0:00 grep snmpd
[root@nameserver /root]# ps ax ! grep gvtrapd
15172 pts/0 S 0:00 grep gvtrapd
[root@nameserver /root]# mount /dev/fd0 /mnt/floppy -t msdos
mount: block device /dev/fd0 is write-protected, mounting read-only
```

Figure 62 – Mounting Floppy

7. Access the directory on the Diskette by typing: cd /mnt/floppy/ Press "enter". See Figure 63.

[root@nameserver /root]# ps ax ! grep snmpd 15170 pts/0 S 0:00 grep snmpd [root@nameserver /root]# ps ax ! grep gvtrapd 15172 pts/0 S 0:00 grep gvtrapd [root@nameserver /root]# mount /dev/fd0 /mnt/floppy -t msdos mount: block device /dev/fd0 is write-protected, mounting read-only [root@nameserver /root]# cd /mnt/floppy/ [root@nameserver floppy]# ]

#### Figure 63 – Accessing Directory

8. Checkpoint! To view files, type: Is You should see: gvlxv101.zip See Figure 64.

```
[root@nameserver /root]# ps ax ! grep snmpd
20105 pts/0 $ 0:00 grep snmpd
[root@nameserver /root]# ps ax ! grep gvtrapd
20107 pts/0 $ 0:00 grep gvtrapd
[root@nameserver /root]# mount /dev/fd0 /mnt/floppy -t msdos
mount: block device /dev/fd0 is write-protected, mounting read-only
mount: /dev/fd0 already mounted or /mnt/floppy busy
mount: according to mtab, /dev/fd0 is already mounted on /mnt/floppy
[root@nameserver /root]# cd /mnt/floppy/
[root@nameserver floppy]# ]s
gvlxv101.zip
[root@nameserver floppy]# ]
```

#### Figure 64 – Checkpoint for file location

9. This file must be copied to a temporary location. Type: **cp gvlxv101.zip /tmp** Press "enter". See Figure 65.

[root@nameserver floppy]# cp gvlxv101.zip /tmp [root@nameserver floppy]#

Figure 65 – Copying the GLOBALVISION AGENT for LINUX to a temporary location

10. The directory must be changed to a temporary location. Type: **cd /tmp** Press "enter". See Figure 66.

[root@nameserver floppy]# cp gvlxv101.zip /tmp [root@nameserver floppy]# cd /tmp [root@nameserver /tmp]#

Figure 66 – Changing Directory to temporary location

11. Unmount the floppy by typing: umount /mnt/ floppy Press "enter". See Figure 67.

[root@nameserver floppy]# cp gvlxv101.zip /tmp [root@nameserver floppy]# cd /tmp [root@nameserver /tmp]# umount /mnt/floppy [root@nameserver /tmp]#

Figure 67 – Command to Unmount the Floppy

- 12. The floppy diskette can be removed.
- In the temporary location, you will unzip the files by typing: unzip gvlxv101.zip Press "enter". See Figure 68.

[root@nameserver_floppu]# cp_gulxu101.zip_/tmp
[root@nameserver_floppy]# cd /tmp
[root@nameserver /tmp]# umount /mnt/floppy
[rootPhameserver /tmn]# ungin gulxu101.zin
Archive: aulxu101.zin
creating: linux $\alpha u$ agent $u1.01$ rh/
creating: linux gu agent ul 01 ph/files/
inflating: linux gu agent u1 01 wh/files/gutwand
inflating: linux gu agent u1 01 wh/files/gutwand conf
inflating. linux gu agent ul 01 wh/files/sound
inflating. linux gu agent ut 01 wh/files/libermytt on
inflating. linux_gy_agent_v1.01_k/install ak
inflating. linux_gv_agent_v1.01_b/ MStall.Sn
inflating. linux_gv_agent_v1.01_t1/
creating: linux_go_agent_u1.01_t1/
creating: linux_gv_agent_vi.gi_ti/files/
inflating: linux_gv_agent_v1.01_t1/files/snmpd
inflating: linux_gv_agent_v1.01_t1/files/gvtrapd.conf
inflating: linux_gv_agent_v1.01_t1/files/libsnmp++.so
inflating: linux_gv_agent_v1.01_tl/files/gvtrapd
inflating: linux_gv_agent_v1.01_tl/install.sh
inflating: linux_gv_agent_v1.01_t1/README
[root@nameserver /tmp]#

Figure 68 – Command for Unzipping Files

 Checkpoint! To view the directories, type: Is You should see: gvlxv101.zip linux\_gv\_agent\_v1.01\_rh linux\_gv\_agent\_v1.01\_tl One directory is for the RedHat Linux and one directory is for the TurboLinux. See Figure 69.

[root@nameserver /tmp]# ls
gvlxv101.zip linux\_gv\_agent\_v1.01\_rh linux\_gv\_agent\_v1.01\_tl
[root@nameserver /tmp]#

#### Figure 69 – Checkpoint for viewing both Linux Directories

15. Depending upon your Linux operating system, choose the directory with the appropriate version by typing: **cd** and then the appropriate directory name. Press "enter". See Figure 70.

[root@nameserver /tmp]# cd linux\_gv\_agent\_v1.01\_rh/ [root@nameserver linux\_gv\_agent\_v1.01\_rh]#

#### Figure 70 – Choose Appropriate Directory

**16.** Checkpoint! Type: **Is** Press "enter". You will be able to view the files in the directory. See Figure 71.

[root@nameserver linux\_gv\_agent\_v1.01\_rh]# ls README files install.sh [root@nameserver linux\_gv\_agent\_v1.01\_rh]#

Figure 71 – Checkpoint for Confirming Correct Directory has been Installed

17. The **install.sh** will contain the following information. Modify ./install.sh if necessary. Please note that **gvtrapd.conf** MUST reside in the /etc directory. See figure 72.

NOTE: By default, gvtrapd and snmpd will be installed in /usr/sbin

#!/bin/sh

# Installation program for Cubix Systems' GlobalVision Linux Agent
# You may modify the destination of libsnmp++.so, snmpd, and gutrapd
however gutrapd.conf MUST reside in the /etc directory.
#
/bin/cp files/gutrapd.conf /etc
/bin/cp files/libsnmp++.so /lib
/bin/cp files/snmpd /usr/sbin/snmpd
/bin/cp files/gutrapd /usr/sbin/gutrapd
"
"install.sh" 15 lines, 370 characters

Figure 72 – Modification of Files

 Modify gvtrapd.conf in the files directory by typing: vi files/gvtrapd.conf Press "enter". See Figure 73.

[root@nameserver linux\_gv\_agent\_v1.01\_rh]# vi files/gvtrapd.conf

Figure 73 – Modification of gvtrapd.conf

19. The following editor window appears. See Figure 74.

# # gvtrapd.conf #

# Cubix manufacturing description for this system board BC7600

# IES datahighway address of the chassis in which this system is located # Must be a number between 1 and 31, inclusive ies 1

# Slot number in which this system is attached # Must be a number between 1 and 8, inclusive group 1

# Number of seconds to wait between each trap to the GlobalVision console # The default interval of 30 seconds will be used if none is specified interval 20

# IP Address of the GlobalVision console managing this system console 192.168.10.1 "files/gvtrapd.conf" 27 lines, 744 characters

Figure 74 – Editor Window

20. There are several items which must be modified. The information relates to the board wherein the Agent has been installed. There are several items that can retain the default information. The first item is a default name for the board, this can be left as is, or assigned a more accurate description (i.e. SP---, DP---, CP---, etc.). The trap interval default setting is 20 seconds, and can be changed or left as is. The items which must be accurate are: the IES datahighyway address, the slot number in which the system is attached, the IP Address of the GlobalVision Console and the Community String. Figure 75 below has these items pointed out with the "arrow".

```
#
# gvtrapd.conf
#
```

# Cubix manufacturing description for this system board BC7600

# IES datahighway address of the chassis in which this system is located # Must be a number between 1 and 31, inclusive ies 1

# Slot number in which this system is attached # Must be a number between 1 and 8, inclusive group 1

# Number of seconds to wait between each trap to the GlobalVision console # The default interval of 30 seconds will be used if none is specified interval 20

```
# IP Address of the GlobalVision console managing this system console 192.168.10.1
```

# SNMP community string associated with the GlobalVision console # The default community string "public" will be used if none is specified community "public" -"files/gvtrapd.conf" 25 lines, 742 characters written

```
Figure 75 - Items that MUST be Modified
```

Note: The Community String is the password used between SNMP boxes for communication. It is assigned during the SNMP Trap Configuration...

21. The following screen shot (Figure 76) is an example of how the information entered from Figure 75 appears within the Global View window. Under the Cubix Enterprise you will see the IP address of the GlobalVision Console. The IES number must (IES 1) match the IES Datahighway Address. The BC number (BC 2) matches the Slot Number where the board has been installed. The Processor Name on the left (BC7600) matches the System Board Description as it has been entered into the system.

🔮 GlobalVision	
Eile View Network Window Help	
🗃 🖃 😵	
🚯 Global View	
- Olicia Enterprise	Details System Network Mouse Drive LPT Ports 4
■ ● ● ■ 10.1.1.129	Name Value
	Processor Name BC2600
	BIDS Manufacturer American Megatrends, Inc.
- OC BC 3	ROM Release Date
- • 🗖 BC 4	CPU Type Pentium II
😑 – 🗢 📼 IES 29	CPU Clock Speed 500 MHz
- • EC 1	Operating System Linux
- • BC 2	Operating System Version v2.02
	Math Coprocessor Present
	Keyboard Type 101/102 Key Keyboard
	Rue Tune PCI
Alarm Monitor	
Status Type Alam	Date/Time Origin
L.	تے .
Faled to communicate with remote UiobalVision	a console "10.1.1.129".

Figure 76 – Global View Window with Modified System Information

22. Type: **sh** ./install.sh Press Enter. All files will be copies to the appropriate directory. See Figure 77.

[root@nameserver linux\_gv\_agent\_v1.01\_rh]# sh ./install.sh [root@nameserver linux\_gv\_agent\_v1.01\_rh]#

#### Figure 77 – Copying Files to the Appropriate Directory

23. Modify **/etc/rc.d/rc.local** or the appropriate files for your system to run gvtrapd and snmpd at system start time. [Note: You should run snmpd first, before gvtrapd is run.] This is the extent of information necessary for the integration of Linux Agent(s) into GlobalVision.

# Chapter 5 – Operation of GlobalVision

## OVERVIEW

GLOBALVISION is managed by two methods. One method is through the GLOBAL VIEW MENU SYSTEM. The other is through the GLOBAL VIEW window. The GLOBAL VIEW MENU SYSTEM has many of the standard Windows® menue items. However, there are several items specific to configuring GLOBAL VIEW and the ALARM MONITOR OPERATIONS. These will be discussed in detail. The second method is through the GLOBAL VIEW window. The GLOBAL VIEW window allows you to manage the functional components of GLOBALVISION.

## Section 1 - Global View Menu System

The GLOBAL VIEW MENU SYSTEM is the menu system used when the GLOBAL VIEW window is highlighted. The GLOBAL VIEW MENU SYSTEM is located at the very top of the **GLOBALVISION CONSOLE**, just underneath the title bar. Most items in the menu system are standard Windows<sup>®</sup> menu items. Some menu items are specific to GlobalVision and will be addressed in detail. The ALARM MONITOR uses a different menu system, which is available when the ALARM MONITOR is highlighted. The menu system has five main menu headings: File, View, Network, Window, and Help.

## **File Menu Heading**

The first menu heading of the GLOBAL VIEW MENU SYSTEM is **File**. **File** has the standard Windows<sup>®</sup> menu items that are normally found under this heading. **File** has eight menu items, plus a "**Recent Files**" list: **Open**, **Close**, **Save**, **Save**, **Save**, **Print**, **Print Preview**, **Print Setup**, and **Exit.** See Figure 78.

- Used to open an existing ALARM or USAGE REPORT. Uses a standard Open Windows<sup>®</sup> Open dialog box. Multiple reports can be opened at the same time. Disabled for GLOBAL VIEW MENU SYSTEM. Used to close an active report. Close Disabled for GLOBAL VIEW MENU SYSTEM. Save Disabled for GLOBAL VIEW MENU SYSTEM. Save As Disabled for GLOBAL VIEW MENU SYSTEM. Print Disabled for GLOBAL VIEW MENU SYSTEM. **Print Preview** Disabled for GLOBAL VIEW MENU SYSTEM. **Print Setup** "Recent Files" Lists the most recently opened ALARM and USAGE REPORTS.
- Exit Exits the GLOBALVISION CONSOLE and closes the application.

20 Year Betwark Window Belp Daen, Onled	_ Details
Owner         Owner         Owner           Torretoria         1         2         3           Torretoria         4         4         4           Eggt         0         80: 1         4           Owner         0         80: 1         0           Owner         80: 1         0         80: 2           Owner         80: 2         0         80: 2           Owner         80: 3         0         80: 4	Nome Volue Description Cubic Enterprise Status Glisbal-Maion Connole Fault
Alama Manufat	
Status Type Altern 31 ES Altern Queue Dve 7 Subsystem Power Fal	Date/Time         Drign           Idee         07-31 AM Mon. Apr 03, 2000         Local           m         07-31 AM Mon. Apr 03, 2000         Local

Figure 78 – GlobalView Menu System, File menu heading

## View Menu Heading

The second menu heading of the GLOBAL VIEW MENU SYSTEM is **View**. **View** has menu items that help determine the layout of the **GLOBALVISION CONSOLE**. **View** has two menu items: **Toolbar** and **Status Bar**. See Figure 79.

- **Toolbar** Used to display or hide the Toolbar. A check-mark appears to the left of the menu item when it is displayed. The Toolbar contains buttons for quick access to many useful tools in GlobalVision.
- Status Bar Used to display or hide the Status Bar. A check-mark appears to the left of the menu item when it is displayed. The Status Bar is used to display messages about buttons, menu items, management commands, and error messages during the operation of GlobalVision.



Figure 79 - Global View Menu System, View menu heading

#### **Network Menu Heading**

The third menu heading of the GLOBAL VIEW MENU SYSTEM is **Network**. **Network** has menu items that help configure the SNMP community string for GlobalVision and determine the refresh rates for Remote GlobalVision Consoles. **Network** has four menu items: **SNMP Community String, Remote Refresh Rate, Packet Filtering (see Figure 80) and if Packet Filtering is enabled, Trusted Consoles (see Figure 83).** 

- SNMP Community String Used to display the COMMUNITY STRING dialog box. "public", in all lowercase letters, is the default SNMP community string.
  - 1. Enter the SNMP Community String into the COMMUNITY STRING text box that will be used to associate with this **GLOBALVISION CONSOLE**. This is case sensitive.
  - 2. Click on **OK** to finish. See Figure 81.
- Remote Refresh Rate
   Used to display the REMOTE REFRESH RATE dialog box.
   Remote Refresh Rate is the number of seconds this
   GLOBALVISION CONSOLE will wait between updates that require
   network traffic.
  - 1. Enter the Remote Refresh Rate in seconds into the REMOTE REFRESH RATE text box.
  - 2. Click on OK to finish. See Figure 82.
- **Packet Filtering** Used to disable or enable GlobalVision's packet filtering feature. For more information, consult Cubix technical support staff.
- Trusted Consoles
   Allows user to configure and manage a list of "Trusted"
   GlobalVision Consoles. See Section on GlobalVision Trusted
   Consoles.



Figure 80 - Global View Menu System, View menu heading

Community String	
Please enter the SNMP commun GlobalVision Console.	ity string to associate with this
public	
ок	Cancel

Figure 81	- Community	String	dialog	box
-----------	-------------	--------	--------	-----

Remote Refresh Rate			
Please enter the remote refresh rate in seconds. This GlobalVision Console will wait this long between updates that require network traffic. A value of zero disables updates except as requested by user interaction, e.g. expanding a list element.			
30	<u>×</u>		
СК	Cancel		

Figure 82 - Remote Refresh Rate dialog box

🖶 GlobaMision			
Ele View Network Window Help			
SNMP Community String			
Eenote Refresh Rate.			
Global of Packet Ethnico			
E- O	Details		
	a construction	Dist.	
😑 – 🔍 🎞 ES 1	Name	Value	
- • 📰 8C 1	Description	LubixEnterprise	
- • EC 2	<ul> <li>Scalus</li> </ul>	Global/Ision Console Fault	
	11		
	11		
E ES 2	11		
- 9 BC 1	11		
- 9 E BC 2	11		
- • C BC 3	11		
- 🔍 📰 BC 4	11		
	<u> </u>		
Alam Monitor			_OX
✓♥×××≥	1		
Status Type Alam	-	Date/Time	Origin 🔺
31 ES Alam Queue Overflor	ч	07:31 AM Mon, Apr 03, 2000	Local
7 Subsystem Power Failure		07:31 AM Mon. Apr 03, 2000	Local 💌
1 C			▶ <i>1</i> 4

Figure 83 – Network menu heading with Packet Filtering Enabled and Trusted Consoles

## Packet Filtering Feature

Packet Filtering is used on IP or IPX based networks. If you have a requirement for GlobalVision to sit outside your corporate firewall, packet filtering is offered as an option. For more detailed information, consult Cubix's technical support staff. Contact information can be found in the appendix of this manual.

To enable packet filtering, select Packet Filtering, which is found under the Network Menu heading. A checkmark will appear in front of Packet Filtering (see Figure 78) and Trusted Consoles will also become available. The following section will explain how to configure a list of trusted consoles for a GlobalVision Console.

## **Trusted Consoles**

The Trusted Console menu item can only be used if Packet Filtering is enabled. Trusted Console is the means by which a GlobalVision Console is configured for management access to a Remote GlobalVision Console. The following instructions and screenshots explain the configuration process. Begin by clicking on **Trusted Console** under the Network menu items. The following instructions will guide you through the Trusted Console configuration process.

The Trusted GlobalVision Console dialog box will have several buttons to choose from: Add IP, Add IPX, Remove, Request Update, OK and Cancel. See Figure 84.

•	Add IP	First step to adding an IP address onto the Trusted GlobalVision Console list.
•	Add IPX	First step to adding an IPX address onto the Trusted GlobalVision Console list.
•	Remove	First step to removing any console from the Trusted GlobalVision Console list
•	Request Update	First step to adding another server's Trusted GlobalVision Console list to the requesting server's list. Only one server can be updated at any one time.
•	ОК	Final authorization for adding IP, adding IPX or removing any console from the GlobalVision Console list. Whenever the OK button is selected, a dialog box will follow informing the user that GlobalVision must be restarted for changes to take effect.
٠	Cancel	Cancel will cancel all changes made to the Trusted GlobalVision Console list.

🍪 Globa	Nision							
<u>F</u> ile <u>V</u> iev	v <u>N</u> etwi	ork <u>W</u> indow <u>H</u> elp						
<b>2</b>	? №	?						
🚯 Glob	al View							<u> </u>
	Cubix B	Enterprise	Details					
÷	Lo	cal GlobalVision Console						
			Name	Value				
			Trusted Glo	obalVision Consol	88	×	1	
			101110	0				
			10.1.1.12	9		Add IP		
			00000001	:00209404104d				
			00000100	):00209404104d		Add IPX		
						Remove		
					Br	equest Update		
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						пк		
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√ 🛛	× ×	(*0 🗃 🖬 ?					1	
Status	Туре	Alarm	<u> </u>	Date/Time	e	Orig	jin	Description
	7	Subsystem Power Failure		02:44 PM	Mon, Apr 10, 2000	Loc	al	IES # 29; Power Supply 2; At
	8	Subsystem Power Operat	ional	02:44 PM	Mon, Apr 10, 2000	Loc	al	IES # 29; Power Supply 2; At
	9	Subsystem Fan Failure		02:44 PM	Mon, Apr 10, 2000	Loc	al	IES # 29; Fan 1; At 04-10-00
	10	Subsystem Fan Operation	nal	02:45 PM	Mon, Apr 10, 2000	Loc	al	IES # 29; Fan 1; At 04-10-00 💌
								►
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Figure 84 – Trusted GlobalVision Consoles dialog box

- To get to the Trusted GlobalVision Consoles screen, you must start with the toolbar located at the top of the GlobalVision screen. Click on Network. Under Network, Click on Packet Filtering. Once Packet Filtering is enabled, the Trusted Consoles will be available. Click on Trusted Consoles, and the Trusted Consoles dialog box will appear (see Figure 84).
- 2. If you wish to add an IP address, click on **Add IP**. An Add Trusted IP Consoles screen will appear. See Figure 85.
  - NOTE: If you are attempting to add an address that has already been configured as a trusted console, GlobalVision will ignore the request.

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	Network Window Help				
	<u> </u>				
🚷 Globa	al View				<u> </u>
	Cubix Enterprise	Details			
	E Local GlobalVision Console	Name Value			
		I rusted Global¥ision Console	2	×	
		10.1.1.129		Add IR	
		Add Trusted IP Console	38		
		Single/Starting IP:	01 @ Single	。  L	
				ĭ H	
		Ending IP:	_		
		10 1 1 0	⊖ Hang	je	
				110	
		OK	Cano		
				U	
🔒 Alarm	Monitor			Lancel	
$\checkmark$	× ≈ ¥ 2  <u>@</u> ∎?				
Status	Type Alarm	Date/Time	:	Origin	Description
	7 Subsystem Power Failure	02:44 PM	Mon, Apr 10, 2000	Loca	IES # 29; Power Supply 2; At
	8 Subsystem Power Operat	ional 02:44 PM	Mon, Apr 10, 2000	Loca	IES # 29; Power Supply 2; At
	9 Subsystem Fan Failure	02:44 PM	Mon, Apr 10, 2000	Loca	IES # 29; Fan 1; At 04-10-00
H-	10 Subsystem Fan Uperation	iai U2:45 PM	Mon, Apr 10, 2000	Loca	IES # 29; Fan I; At 04-10-00 ▼
🏤 Start	🍪 GlobalVision	Trusted GlobalVision Co			😻 9:20 AM

Figure 85 – Add Trusted IP Consoles screen (sample of entered address)

- 3. The boxes under Single/Starting IP will contain zeros. If you only wish to add one console, replace the zeros with the IP address of that console, and click in the Single space. See Figure 85. Next, click on OK. The Trusted GlobalVision Consoles screen will reappear with the IP address you have just added. You must click on OK in the Trusted GlobalVision Console screen to finalize changes. A dialog box will then appear telling you that GlobalVision must be restarted for changes to take effect.
- 4. If you wish to add several IP consoles that are numerically consecutive, fill in the address of the beginning console under the Single/Starting IP. Select **Range**. The Ending IP box will become available. Enter the IP address of the last console in the range. See Figure 86. When you click on **OK**, the Trusted GlobalVision Consoles screen will reappear with all of the IP addresses within the group you have just added. You must click on **OK** in the Trusted GlobalVision Console screen to finalize changes. A dialog box will appear telling you that GlobalVision must be restarted for changes to take effect.

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<b>2 1 2 1</b>				
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E- ● Cubix Enterprise	Details Name Value Trusted Globa/Vision Conso	es	×	
	10.1.1.129           00         Add Trusted IP Consol           00         Single/Starting IP:           10         1         1           10         1         1           10         1         1	125 C Single	Add IP	
	OK	Canc		
Alarm Monitor	i l	(	Cancel	(m)
┛ ┙ѷ╳╳╳┛๊๊ӹӹӟ				
Status Type Alarm	Date/Tim	e	Origin	Description
7 Subsystem Power Failure	02:44 PM	Mon, Apr 10, 2000	Local	IES # 29; Power Supply 2; At
B Subsystem Power Opera	tional 02:44 PM	Mon, Apr 10, 2000	Local	IES # 29; Power Supply 2; At
9 Subsystem Fan Failure	02:44 PM	Mon, Apr 10, 2000	Local	IES # 29; Fan 1; At 04-10-00
10 Subsystem Fan Operatio	nal 02:45 PM	Mon, Apr 10, 2000	Local	IES # 29; Fan 1; At 04-10-00 💌
4				F
🚓 Start 🚱 Globa Vision	Trusted Globa/Vision Consoles			🈻 9:23 AM

Figure 86 – Adding Consecutive Trusted IP Consoles dialog box (sample)

- 5. If you wish to add an IPX address, click on **Add IPX**. An Add Trusted IPX Consoles screen will appear. See Figure 87. Note: Only one IPX console can be added at a time.
- 6. The boxes under Network Number and Node Address will be blank. Type in the IPX network number and the node address of the console you wish to add. Note that the IPX/SPX network address must be in the format xxxxxxx:yyyyyyyyy, where xxxxxxx is an eight digit hexadecimal network number and yyyyyyyyyyy is a twelve digit hexadecimal node number. Next, click on OK. The Trusted GlobalVision Console screen will reappear with the IPX address you have just added. You must click on OK in the Trusted GlobalVision Console screen to finalize changes. A dialog box will appear telling you that GlobalVision must be restarted for changes to take effect.

NOTE: All addresses will be listed in numerical order, with IPX addresses after IP addresses.

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🚯 Global View				<u> </u>
En- ●E Cubix Enterprise ⊞- ●E Local Global/Visio	on Console Details Name Val Trasted GlobalVisi 10.1.1.129 10.1.1.19 10.1.129 10.129 10.1.129	ue on Consoles d IPX Console ess Number - Node Address	Add IP	
		Volde Address 00000001 00209404104d Cance	el Cancel	
Alarm Monitor				
<u> </u>				
Status Type Alarm		Date/Time	Origin	Description
7 Subsystem F	Power Failure	02:44 PM Mon, Apr 10, 2000	Local	IES # 29; Power Supply 2; At
8 Subsystem F	Power Operational	02:44 PM Mon, Apr 10, 2000	Local	IES # 29; Power Supply 2; At
9 Subsystem F	ran Failure	02:44 PM Mon, Apr 10, 2000	Local	IES # 29; Fan 1; At 04-10-00
10 Subsystem F	Fan Operational	02:45 PM Mon, Apr 10, 2000	Local	IES # 29; Fan 1; At 04-10-00 💌
<b>   </b>				<u> </u>
😹 Start 🎯 Globa/Vision	Trusted GlobalVisio	on Co 📝 untitled - Paint		😻 9:24 AM

Figure 87 – Add Trusted IPX Console screen (sample)

7. If you wish to remove any console from the Trusted GlobalVision console list, highlight the address or addresses to be removed. When you highlight an address, the Remove button becomes active. Click on the Remove button. See Figure 88. The Trusted GlobalVision Consoles screen will reflect the changes requested. You must click on OK to finalize the change. A dialog box will appear telling you that GlobalVision must be restarted for changes to take effect.

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🚯 Globa	al View							<u> </u>
- • E	) Cubix E	nterprise	Details					
÷ (	📲 Loc	al GlobalVision Console	Nene	(alua				
			I Name					
			Trusted GlobalV	ision Conse	oles		×	
			10.1.1.129 10.1.1.201 0000001:0020 00000100:0020	9404104d 9404104d		Add IP Add IPX Remove Request Upd	ate	
						OK		
						Cancel		
🔒 Alarm	n Monito	r i i i i i i i i i i i i i i i i i i i						
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Status	Туре	Alarm		Date/Tir	ne		Origin	Description
	7	Subsystem Power Failur	e	02:44 PI	M Mon, Apr 10,	2000	Local	IES # 29; Power Supply 2; At
	8	Subsystem Power Opera	ational	02:44 PI	M Mon, Apr 10,	2000	Local	IES # 29; Power Supply 2; At
	9	Subsystem Fan Failure		02:44 Pl	M Mon, Apr 10,	2000	Local	IES # 29; Fan 1; At 04-10-00
<u>Ц</u>	10	Subsystem Fan Uperatio	onal	02:45 PI	M Mon, Apr 10,	2000	Local	IES # 29; Fan 1; At U4-10-00 💌
								<u> </u>
🄀 Start	🍪 Glot	palVision	📝 untitled - Paint		Trusted Glob	alVision Co		😻 3:30 PM
		Figure 88 -	- Removin	g Trus	sted IP	or IPX C	onso	le screen

 If you wish to merge another console's trusted console list, you would use the Request Update button. Locate the console's address you wish to update and highlight. Click on the Request Update button. A Request Update dialog box will appear. See Figure 89. If the console address is the correct address, click on **Connect**. The progress status bar will activate as GlobalVision queries the console for it's list of servers. When the query is complete, the Trusted GlobalVision Console screen will reappear with the new list of addresses incorporated into the old list. Click on **OK** in the Trusted GlobalVision Console screen to finalize the change. A dialog box will appear telling you that GlobalVision must be restarted for changes to take effect.

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	Name Va	lue		
	Trusted GlobalVis	ion Consoles	X	
	10.1.1.129		Add IP	
	10.1.1.201			
	00 Request Up	date	×	
	10.1.1.201			
			ate	
	Connect	Can		
<u> </u>			Cancel	
🔒 Alarm Monitor			Caricel	
	12			
	<b>1</b> 2	1		
Status Type Alarm		Date/Time	Origin	Description
7 Subsystem Power	Failure	02:44 PM Mon, Apr 10, 2000	Local	IES # 29; Power Supply 2; At
8 Subsystem Power	Operational	02:44 PM Mon, Apr 10, 2000	Local	IES # 29; Power Supply 2; At
9 Subsystem Fan Fa	ilure	02:44 PM Mon, Apr 10, 2000	Local	IES # 29; Fan 1; At 04-10-00
10 Subsystem Fan Up	perational	U2:45 PM Mon, Apr 10, 2000	Local	IES # 29; Fan 1; At U4-10-00 👻
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	Figure 89 –	<ul> <li>Request Updat</li> </ul>	e screen	

#### Window Menu Heading

The fourth menu heading of the GLOBAL VIEW MENU SYSTEM is **Window**. **Window** has most of the standard Windows<sup>®</sup> menu items that are normally found under this heading. **Window** has four menu items: **Cascade**, **Tile**, **Arrange Icons**, and **"Open Windows"**. See Figure 90.

- Cascade Standard Windows<sup>®</sup> cascade function.
- Tile Standard Windows<sup>®</sup> tile function.
- Arrange Icons Standard Windows<sup>®</sup> arrange icons function.
- "Open Windows" Lists the windows open in the GLOBALVISION CONSOLE. The window in the foreground is signified by a check-mark to the left of the name. Standard Windows<sup>®</sup> open windows function.

Clobal Vision         Ele       View       Window       Help         Cobal View       Cascado         Ille       Arrange Icons         O       Local       Ille         O       Ente       Ille         O       Ente       Ille         O       Este       Ille         O       BC 3       Windows 3.1         O       BC 4       Este       Este         O       BC 6       Este       Este         O       BC 8       Este       Este	Details       Details       Description       Cubix Enterprise       Status
Alarm Monitor	Date/Time Origin

Figure 90 - Global View Menu System, Window menu heading

#### **Help Menu Heading**

The fifth and final menu heading of the GLOBAL VIEW MENU SYSTEM is **Help**. **Help** is used to access the on-line HELP SYSTEM and the ABOUT GLOBALVISION window. **Help** has two menu items: **Help Topics** and **About GlobalVision**. See Figure 91.

- Help Topics Used to access the on-line HELP SYSTEM. The HELP SYSTEM is a standard Windows<sup>®</sup> help system.
- About GlobalVision Used to access the ABOUT GLOBALVISION window, which has the Version Number and Copyright Date. See Figure 91.



Figure 91 - Global View Menu System - Help menu heading

## Section 2 - Global View Button System



Figure 92 - About GlobalVision window

The GLOBAL VIEW BUTTON SYSTEM is the button system used when the GLOBAL VIEW window is highlighted. The button system is located on the Toolbar, which is located just underneath the GLOBAL VIEW MENU SYSTEM. Most items in the button system are standard Windows<sup>®</sup> buttons. The ALARM MONITOR uses a different button system, which is available when the ALARM MONITOR is highlighted. The button system has four buttons, from left to right: **OPEN**, **SAVE**, **ABOUT GLOBALVISION**, and **TOPIC HELP**. See Figure 93. When the Question Mark Button representing the ABOUT GLOBALVISION is selected, the About GlobalVision window will appear with information regarding the current version installed on your system. See Figure 92.

•	<b>OPEN</b> (Opened Folder)	Used to open an existing ALARM or USAGE REPORT. Uses a standard Windows <sup>®</sup> Open dialog box. Multiple reports can be opened at the same time.
•	SAVE (Disk)	Disabled for GLOBAL VIEW BUTTON SYSTEM. Used for ALARM MONITOR BUTTON SYSTEM.
•	ABOUT GLOBALVISION (Question Mark)	Used to access the ABOUT GLOBALVISION window, which has the Version Number and Copyright Date. See Figure 92.
•	<b>TOPIC HELP</b> (Arrow/Question Mark)	Used to bring up the on-line HELP SYSTEM with a selected topic. Click on this button, then click on a selected button, menu item, or dialog box to bring up the HELP SYSTEM with the selected topic.



Figure 93 - Global View Button System

## Section 3 - Global View Operations

The GLOBAL VIEW is a split window that provides access to an overall view as well as a detailed view of the Cubix hardware in an enterprise. On the left side is a hierarchical tree of the Cubix hardware, while the right side details specific information about the node currently highlighted in the tree on the left. The GLOBAL VIEW shows all the detailed information about the Cubix Enterprise, Local and Remote GlobalVision Consoles, two different types of IES levels (processor and remote) and computer boards.

The GLOBAL VIEW also provides various controls and menu options that can be set for the chassis and computer boards.

## **GlobalVision Hierarchical Tree**

The GLOBAL VIEW displays the Cubix products that are being monitored in a hierarchical tree structure. The top of the tree is the CUBIX ENTERPRISE, which consists of all equipment being monitored by GlobalVision. The next level is the LOCAL and REMOTE GLOBALVISION CONSOLES. The next level is the IES (can be with enclosure description: ERS/FT II or DENSITY). The last level is the PROCESSORS (whether it is a BC, SP, DP or CP).

Each level of the GlobalVision tree will be explained in detail in the following sections: Cubix Enterprise, Local GlobalVision Console, Remote GlobalVision Console, IES Level, and Processor Level. Each section includes the information available from each level, and the control and menu options available.

#### GlobalView Menu

The top of the GlobalVision hierarchical tree is the CUBIX ENTERPRISE, which consists of all equipment being monitored by GlobalVision. Listed underneath this level are the LOCAL and REMOTE GLOBALVISION CONSOLES.

To expand the GlobalVision tree, double-click on the CUBIX ENTERPRISE description or single-click on the plus sign in front of CUBIX ENTERPRISE description.

To retract the GlobalVision tree, double-click on the CUBIX ENTERPRISE description or single-click on the minus sign in front of the CUBIX ENTERPRISE description.

The name "CUBIX ENTERPRISE" can be changed. Use the mouse and click on the description text once. The name can now be changed. Suitable names could be the name of the company, enterprise, division, department, or other pertinent name. Caution should be used in choosing a name that has a suitable meaning for the environment GlobalVision is monitoring.

#### **Information Tab**

The CUBIX ENTERPRISE level of the GlobalVision hierarchical tree has one information tab: Details.

#### **Details Tab**

The DETAILS tab shows the specific descriptive information and the status of the CUBIX ENTERPRISE level of the GlobalVision hierarchical tree. See Figure 94.

- Description Name of the top level in the GlobalVision hierarchical tree.
- Status Shows the current status of the all equipment GlobalVision is monitoring

Image: Second state     Second state       Second state     Second state       Image: Second state     Image: Second state       Image: Second state     Image: Second state	
Global View  Global View  Cubix Enterprise  Global Vision Console  G	Details Name S Value Description Cubix Enterprise ● Status Normal
Alarm Monitor	
Status Type Alarm	Date/Time Origin

Figure 94 - Cubix Enterprise level, Details tab

#### **Control Features**

The CUBIX ENTERPRISE level of the GlobalVision hierarchical tree has one control: Add Remote GlobalVision Console.

#### Section 4 - Local GlobalVision Console Level

The second level of the GlobalVision hierarchical tree contains the LOCAL GLOBALVISION CONSOLE. Listed underneath this level is the CHASSIS.

To expand the tree, double-click on the LOCAL GLOBALVISION CONSOLE description or single-click on the plus sign in front of LOCAL GLOBALVISION CONSOLE description. See Figure 95.

To retract the tree, double-click on the LOCAL GLOBALVISION CONSOLE description or single-click on the minus sign in front of the LOCAL GLOBALVISION CONSOLE description. See Figure 95.

The name "LOCAL GLOBALVISION CONSOLE" can be changed. Use the mouse and click on the description text once. The name can now be changed. Suitable names could be the area where the **GLOBALVISION CONSOLE** is located, or the type of environment the Console is monitoring. Caution should be used in choosing a name to avoid confusion with other **GLOBALVISION CONSOLES**.

The order of the equipment in the GlobalVision hierarchy tree is sorted alphabetically when a branch is first opened. If desired, the order of the equipment may be preserved by leaving the default description and appending any additional information, *e.g.* "BC 1" becomes "BC 1 - NT Workstation/GlobalVision". The group order can then be preserved.

#### Information Tab

The LOCAL GLOBALVISION CONSOLE level of the GlobalVision hierarchical tree has one information tab: **Details.** 

#### **Details Tab**

The DETAILS tab shows the specific descriptive information, status, type, and the number of IES Modules and QL Supervisors the LOCAL GLOBALVISION CONSOLE level is monitoring of the GlobalVision hierarchical tree. See Figure 95.

- Description Name of the second level in the GlobalVision hierarchical tree.
- Status Shows the current status of **GLOBALVISION CONSOLE**. See Appendix for a reference table of status indicators.
- Type Defines whether the GLOBALVISION CONSOLE is Local or Remote.
- IES Modules Number of IES Modules the GLOBALVISION CONSOLE is monitoring.

#### **Control Features**

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Cubix Enterprise	Details
in Other Procession Consults	Name 🗸 Value
Orive Group 1	Description Local GlobalVision Console
En en IES 4 - ERS/FT II	Type Local GlobalVision Console
	IES Modules 2
BC 3 - Windows 95	QL SUPERVISOIS O
• • • BC 4	
● □ BC7	
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🔒 Alarm Monitor	
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Date/Time	Origin Description
11:40 AM Fri, Jan 30, 1998	Local IES # 2
IES configured successfully	
TEO COnfigured successfully.	

#### Figure 95 - Local GlobalVision Console, Details tab

The LOCAL GLOBALVISION CONSOLE level of the GlobalVision hierarchical tree has four control features: Alarm, Usage, Add IES, and Network.

- 1. Double-click on the CUBIX ENTERPRISE description to expand the GlobalVision tree.
- 2. Click on the LOCAL GLOBALVISION CONSOLE description.
- 3. Right-click on the description to reveal the LOCAL GLOBALVISION CONSOLE pull-down menu. The menu items available are Alarm, Usage, Add IES, and Network.
- 4. Click on the desired control feature to continue.

#### Section 5 - Alarm Control

The **Alarm** control allows access to the **Alarm** menu options. The **Alarm** menu options provide utilities to generate ALARM REPORTS, clear the ALARM DATABASE, identify which Remote GlobalVision Consoles to receive alarms from, and select which types of actions to invoke when alarms are received from Local and Remote GlobalVision Consoles.

- 1. Click on the LOCAL GLOBALVISION CONSOLE description.
- 2. Right-click on the description to reveal the LOCAL GLOBALVISION CONSOLE pull-down menu. The menu items available are Alarm, Usage, Add IES, and Network.
- 3. Click on the Alarm menu item. See Figure 96. The menu items available are Generate Report, Clear Database, Clear Entire Database, Receive Alarms From, and Announce Options.

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Alarm Monitor
Date/Time Origin Description
11:40 AM Fri, Jan 30, 1998 Local IES # 2
IES configured sucessfully.

Figure 96 - Local GlobalVision Console controls

#### Generate Report Menu Item

The **Generate Report** menu item under the **Alarm** control allows ALARM REPORTS to be created. These ALARM REPORTS are useful for troubleshooting a problem. They are also useful for analyzing a history of errors of Cubix equipment to predict future problems. 1. Click on the **Generate Report** menu item under the **Alarm** control of the LOCAL GLOBALVISION CONSOLE level of the GlobalVision tree. See Figures 96 and 97.

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<u>File V</u> iew <u>N</u> etwork <u>W</u> indow <u>H</u> elp
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Cubix Enterprise
Eccal GlobalVision Console
Drive Group 1
Ome IES 4 - ERS/FT II     Ty Clear Entire Database n Console
BC1 - Windows 3.1
O     O
- O C BC 7
Date/Time Origin Description
11:40 AM Fri, Jan 30, 1998 Local IES # 2
IES configured successfully.

Figure 97 - Local GlobalVision Console controls, Alarm menu items

2. Choose the time range to include in the report in the **ALARM TIME FRAME** dialog box and choose **NEXT** to continue. See Figure 98.

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Date	
Day Month Year	
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Fri 30 🔹 Jan 💌 1998 🐳	
Next > Cancel Help	
	Date Day Month Year Thu 1 Jan V 1998 V Fri 30 V Jan V 1998 V Mext > Cancel Help

Figure 98 - Alarm Time Frame dialog box

- 3. Choose which alarm types to include in the report in the ALARM TYPES dialog box. Do the following in the dialog box. The report will be created and displayed . See Figure 99.
  - Select specific alarm types by clicking and highlighting them in the **SELECTED ALARMS** list box.
  - Select all alarm types by clicking on the **SELECT ALL** button.

- Select none of the alarms types by clicking on the **CLEAR ALL** button.
- Select only unacknowledged alarms by placing a check-mark in the check-box to the left of SHOW ONLY UNACKNOWLEDGED ALARMS.

Click FINISH to continue.	

Alarm Types	×
Selected Alarms BC CPR Reset BC Pending Offline Reset QL 3000 Series CPR Reset QL 4000 Series Pending Offline Reset QL 4000 Series Pending Offline Reset Subsystem Power Failure Subsystem Power Failure Subsystem	
Show Only Unacknowledged Alarm:	
< Back Finish Cancel	Help

Figure 99 - Alarm Types dialog box

#### **Clear Database Menu Item**

The **Clear Database** menu item under the **Alarm** control allows the ALARM DATABASE to be cleared. The alarms to be cleared can be filtered to clear alarms from a certain date range and of a certain type. This should be done periodically to remove alarms that are old and to decrease the size of the database. An unreasonably large database will take an excessive amount of time to generate reports and update.

- 1. Click on the **Clear Database** menu item under the **Alarm** control of the LOCAL GLOBALVISION CONSOLE level of the GlobalVision tree. See Figures 96 and 97.
- 2. Choose the time range of alarms that should be cleared from the database in the ALARM TIME FRAME dialog box and choose **NEXT** to continue. See Figure 98.
- 3. Choose which alarm types to clear from the database in the ALARM TYPES dialog box. Do the following in the dialog box. See Figure 99.
  - Select specific alarm types by clicking and highlighting them in the SELECTED ALARMS list box.
  - Select all alarm types by clicking on the SELECT ALL button.
  - Select none of the alarms types by clicking on the CLEAR ALL button.
  - Select only unacknowledged alarms by placing a check-mark in the check-box to the left of SHOW ONLY UNACKNOWLEDGED ALARMS.
  - Click **FINISH** to continue.
- 4. Choose **OK** in the CLEAR ALARM DATABASE message box to clear the entries in the database. The alarm types will be cleared from the ALARM DATABASE. See Figure 100.



Figure 100 - Clear Alarm Database message box

#### **Clear Entire Database Menu Item**

The **Clear Entire Database** menu item under the **Alarm** control allows the entire ALARM DATABASE to be cleared. This should be done periodically to remove alarms that are old and to decrease the size of the database. An unreasonably large database will require an excessive amount of time to generate reports and update.

- 1. Click on the **Clear Entire Database** menu item under the **Alarm** control of the LOCAL GLOBALVISION CONSOLE level of the GlobalVision tree. See Figures 96 and 97
- 2. Choose **OK** in the CLEAR ALARM DATABASE message box to clear the entries in the database. All alarm types will be cleared from the ALARM DATABASE. See Figure 100.

#### **Receive Alarms From Menu Item**

The **Receive Alarms From** menu item under the **Alarm** control is used to select which Remote GlobalVision Consoles will send their alarms to the Local GlobalVision Console. This step is necessary to allow the Local GlobalVision Console to receive information from the Remote GlobalVision Console.

The TCP/IP network address must be in the format xxx.xxx.xxx, where xxx is a decimal number between 0 and 255. The "periods" are mandatory between the decimal numbers.

The IPX/SPX network address must be in the format xxxxxxx:yyyyyyyyyy, where xxxxxxx is an eight digit hexadecimal network number and yyyyyyyyyy is a twelve digit hexadecimal node number. The "colon" between the network and node number is mandatory.

- 1. Click on the **Receive Alarms From** menu item under the **Alarm** control of the LOCAL GLOBALVISION CONSOLE level of the GlobalVision tree. See Figures 66 and 67.
- 2. The **Receive Alarms From** dialog box should appear. Do the following in the dialog box. See Figure 71.
  - Enter the IP or IPX address of the Remote GlobalVision Console into the SUBSCRIBEES text box and click on **ADD** to add a Remote GlobalVision Console.
  - Highlight any existing IP or IPX address in the ADDRESS LIST BOX and click on **REMOVE** to remove a Remote GlobalVision Console.

- Select which alarms should be sent from the Remote GlobalVision Console to the Local GlobalVision Console by highlighting and unhighlighting the desired alarms in the SELECTED ALARMS text box. Click on SELECT ALL or CLEAR ALL to choose all or none of the alarms, respectively.
- Click **OK** when finished.

Receive Alarms from	
Subscribees         100.100.120         Add         Eemove	Selected Alarms BC CPR Reset BC Pending Offline Reset QL 3000 Series CPR Reset QL 4000 Series CPR Reset QL 4000 Series Pending Offline Reset QL 4000 Series Pending Offline Reset Subsystem Power Failure Subsystem Power Operational Subsystem Fan Derational Subsystem Slot Power Off/Slot Fuse Failu Subsystem Slot Power On/Slot Fuse Oper Subsystem Temperature Exceeded Thres

Figure 101 - Receive Alarms From dialog box

#### Announce Options Menu Item

The **Announce Options** menu item under the **Alarm** control is used to select which alarms are monitored for the Local and Remote GlobalVision Consoles. This control also determines which alarms cause the ALARM MONITOR to pop up, will cause an audible sound, will invoke a batch file, and will send an e-mail message.

The TCP/IP network address must be in the format xxx.xxx.xxx, where xxx is a decimal number between 0 and 255. The "periods" are mandatory between the decimal numbers.

The IPX/SPX network address must be in the format xxxxxxx:yyyyyyyyyy, where xxxxxxx is an eight digit hexadecimal network number and yyyyyyyyyy is a twelve digit hexadecimal node number. The "colon" between the network and node number is mandatory.

- 1. Click on the **Announce Options** menu item under the **Alarm** control of the LOCAL GLOBALVISION CONSOLE level of the GlobalVision tree. See Figures 96 and 97.
- 2. The ANNOUNCE OPTIONS dialog box should appear. Do the following in the dialog box. See Figure 102.
  - Choose whether the actions to be caused by alarms are for the Local or Remote GlobalVision Console by choosing LOCAL ANNOUNCEMENTS or REMOTE ANNOUNCEMENTS in the SCOPE selection box.
  - Choose which action will be taken from the options in the ANNOUNCEMENT selection box when any of the selected alarms are received.
    - MONITOR ALARMS causes alarms to be placed in the ALARM MONITOR.
    - POPUP ALARM MONITOR WINDOW causes the ALARM MONITOR to expand itself from an iconic state into a full window, and place itself on top of all other windows inside the GLOBALVISION CONSOLE.
    - INVOKE SOUND FILE causes the file selected in the SOUND FILE text box to be executed.

- INVOKE COMMAND FILE causes the file selected in the COMMAND FILE text box to be executed. This option allows you to be notified via a third-party pager. You can select specific alarms you would like to be paged on. For other less significant alarms, SOUND FILES or INTERNET MAIL notification can be used.
- SEND INTERNET MAIL causes an e-mail message to be sent to the recipients on the specified e-mail servers describing the nature of the problem.

Announcement Options	
Scope	C <u>R</u> emote Announcements
Announcement      Monitor Alarm      Popup Alarm Monitor Window	Alarms Items selected/located: 54
C Invoke Sound File C Invoke Sound File C Send Internet Mail	BC CPR Reset BC Pending Offline Reset IES Alam Queue Overflow IES Communication Failure QL 3000 Series CPR Reset QL 3000 Series CPR Reset QL 4000 Series CPR Reset QL 4000 Series Pending Offline Reset SafeStor Terminator Installed Backwards
Command File Settings Command File Command Line Parameters	Subsystem +12 Voltage Outside Normal Range Subsystem +12 Voltage Within Normal Range Subsystem +5 Voltage Outside Normal Range Subsystem -12 Voltage Outside Normal Range Subsystem -12 Voltage Outside Normal Range Subsystem -5 Voltage Within Normal Range Subsystem -5 Voltage Outside Normal Range Subsystem -5 Voltage Within Normal Range
Mail Settings SMTP Server Recipients	Subsystem A/D Conversion Channel Fault Subsystem Audible Clear Switch Stuck in Enable Subsystem Auto-Configuration Test Failed Subsystem BC Group Selection "DDWN" Switch Subsystem BC Group Selection "DDWN" Switch Subsystem A/D Group Selection "DDWN" Switch
	C <u>a</u> ncel <u>H</u> elp

Figure 102 - Announce Options dialog box

- 3. If INVOKE SOUND FILE is selected, use the selection button to the right of the SOUND FILE text box to find the desired sound file. A standard Windows<sup>®</sup> selection dialog box is used.
- If INVOKE COMMAND FILE is selected, use the selection button to the right of the COMMAND FILE and COMMAND LINE PARAMETERS text boxes to bring up the COMMAND SETUP dialog box.
- 5. The **COMMAND SETUP** dialog box is used to specify the desired batch or executable file and any necessary program parameters. Do the following in this dialog box. See Figure 103.
  - Enter the file name, including the complete path, into the COMMAND text box, or use the **BROWSE** button to search for the file. A standard Windows<sup>®</sup> browse dialog box is used.
  - Enter any necessary program parameters into the PARAMETERS text box.
  - Click **OK** when finished.

Command Setup	×
Command Enter the file name including the complete path or click on Browse to search for the file.	
Browse	
Parameters Enter the list of command line parameters as required by the program.	
OK Cancel	

Figure 103 - Command Setup dialog box

- 6. If SEND INTERNET MAIL is selected, use the selection button to the right of the SMTP SERVER and RECIPIENTS text boxes to bring up **the MAIL SETUP** dialog box.
- 7. The **MAIL SETUP** dialog box is used to specify e-mail addresses on specific SMTP servers to send warning alarms. Do the following in this dialog box. See Figure 104.
  - Enter the name or IP address of the specific SMTP server into the MAIL SERVER text box.
  - Enter the Internet mail addresses into the MAIL RECIPIENTS text box.
  - Click **OK** when finished.

М	ail Setup	×
[	Mail Server Enter the name or IP address of your SMTP 	
	Mail Recipients	_
	Enter the Internet mail addresses where error messages should be sent. Separate multiple addresses with a comma (,).	
[	OK Cancel	

Figure 104 – Mail Setup dialog box

- 8. Select which alarms will invoke the chosen action by highlighting and unhighlighting the desired alarms in the SELECTED ALARMS list box. Click on **SELECT ALL** and **CLEAR ALL** to choose all or none of the alarms, respectively.
- 9. Click **OK** when finished in the **ANNOUNCEMENT OPTIONS** dialog box.

#### **Section 6 - Usage Control**

The **Usage** control allows access to the **Usage** menu options. The **Usage** menu options provide utilities to generate USAGE REPORTS and clear the USAGE DATABASE.

- 1. Click on the LOCAL GLOBALVISION CONSOLE description.
- 2. Right-click on the description to reveal the LOCAL GLOBALVISION CONSOLE pull-down menu. The menu items available are **Alarm**, **Usage**, **Add IES**, and **Network**. See Figure 96.
- 3. Click on the **Usage** menu item. The menu items available are **Generate Report, Clear Database**, and **Clear Entire Database**. See Figure 105.

#### **Generate Report Menu Item**

The **Generate Report** menu item under the **Usage** control allows USAGE REPORTS to be created. These USAGE REPORTS are useful for troubleshooting a problem. They are also useful for analyzing a history of usage by personnel to predict future usage.

The TCP/IP network address must be in the format xxx.xxx.xxx, where xxx is a decimal number between 0 and 255. The "periods" are mandatory between the decimal numbers.

The IPX/SPX network address must be in the format xxxxxxx:yyyyyyyyyy, where xxxxxxx is an eight digit hexadecimal network number and yyyyyyyyyy is a twelve digit hexadecimal node number. The "colon" between the network and node number is mandatory.

1. Click on the **Generate Report** menu item under the **Usage** control of the LOCAL GLOBALVISION CONSOLE level of the GlobalVision tree. See Figures 96 and 105.



Figure 105 - Local GlobalVision Console controls, Usage menu items
2. Choose the time range to include in the report in the **USAGE TIME FRAME** dialog box and choose **NEXT** to continue. See Figure 106.

Usag	ge Tim	e Frame									×
	- Time				- Date -						
		Hr	Min			Day		Month	Yea	r	
	From	÷	01 🕂 🗆	<u>Р</u> М	Thu	1	• •	Jan	▼ 197	0	
	To	• 03	15 • 🔽	Р <u>М</u>	Fri	30	÷	Jan	<b>-</b> [199	8 🕹	
											]
				< <u>B</u> ack	<u>N</u> e	xt >		Cancel		Help	

Figure 106 - Usage Time Frame dialog box

- 3. The **USAGE USER NAME** dialog box should appear. This dialog box is used to determine which User Names to include in the report. Do the following in this dialog box. See Figure 107.
  - Enter the desired User Names in the USER LIST text box and choose **ADD** to add names to the USER LIST list box.
  - Highlight names in the USER LIST text box and choose REMOVE to remove names from the USER LIST list box.
  - Choose VIEW ALL USERS IN THE USAGE DATABASE to include all users in the report, or choose VIEW ONLY USERS SELECTED IN THE LIST to include users in the USER LIST.
  - Choose **SAVE** to save the list of users to the registry. The saved user list will be the default list when USAGE REPORTS are generated.
  - Choose LOAD to load the list of user from the registry.
  - Choose **NEXT** to continue.

<b>I</b>	• View all users in the Usage Database
Add <u>R</u> emove	View only users selected in the list
Load Save	

Figure 107 - Usage User Name dialog box

- 4. The **USAGE NETWORK ADDRESS** dialog box should appear. This dialog box is used to determine which network addresses to include in the report. Do the following in this dialog box. See Figure 108.
  - Enter the desired IP or IPX network addresses in the NETWORK ADDRESS LIST text box and choose **ADD** to add addresses to the NETWORK ADDRESS LIST list box.
  - Highlight addresses in the NETWORK ADDRESS LIST text box and choose **REMOVE** to remove addresses from the NETWORK ADDRESS LIST list box.
  - Choose VIEW ALL ADDRESSES IN THE USAGE DATABASE to include all addresses in the report, or choose VIEW ONLY ADDRESSES SELECTED IN THE LIST to include addresses in the NETWORK ADDRESS LIST list box.
  - Choose **SAVE** to save the list of addresses to the registry. The saved addresses list will be the default list when USAGE REPORTS are generated.
  - Choose LOAD to load the list of addresses from the registry.
  - Choose **NEXT** to continue.

Usage Network Address	×		
Network Address List	• View all addresses in the Usage Database		
Add <u>R</u> emove	C View only addresses selected in the list		
Load Save			
< <u>B</u> ack	Next > Cancel Help		

Figure 108 - Usage Network Address dialog box

- 5. Choose the types of devices to be included in the report in the **USAGE DEVICE TYPE** dialog box. At least one device must be chosen. Choose **NEXT** to continue. See Figure 109.
  - **NOTE** A DP (dual processor) board set is considered a BC Series board for the purposes of the USAGE DEVICE TYPE dialog box and all USAGE REPORTS.

Usage Device Type	×
C Processors	
< Back Next >	Cancel Help

Figure 109 - Usage Device Type dialog box

- 6. Choose the desired USAGE REPORT to generate in the **USAGE REPORT TYPE** dialog box. Choose **FINISH** to create the report. The report will be created and displayed. See Figure 110.
  - STANDARD report shows the amount of time users have been logged.
  - PERCENT UPTIME report shows the percentage of time each workstation has been running compared to the time that GlobalVision has been running.
  - PERCENT UTILIZATION report shows the percentage of time a workstation was in use.

Usage Report Type			X
	Standard     Eercent Uptime		
	C Percent <u>U</u> tilization		
	< <u>B</u> ack Finish	Cancel	Help

Figure 110 - Usage Report Type dialog box

#### **Clear Database Menu Item**

The **Clear Database** menu item under the **Usage** control allows the USAGE DATABASE to be cleared. The data to be cleared can be filtered to clear data from a certain date range and of a certain type. This should be done periodically to remove data that is old and to decrease the size of the database. An unreasonably large database will take an excessive amount of time to generate reports and update.

The TCP/IP network address must be in the format xxx.xxx.xxx, where xxx is a decimal number between 0 and 255. The "periods" are mandatory between the decimal numbers.

The IPX/SPX network address must be in the format xxxxxxx:yyyyyyyyyy, where xxxxxxx is an eight digit hexadecimal network number and yyyyyyyyyy is a twelve digit hexadecimal node number. The "colon" between the network and node number is mandatory.

- 1. Click on the **Clear Database** menu item under the **Usage** control of the LOCAL GLOBALVISION CONSOLE level of the GlobalVision tree. See Figures 96 and 105.
- 2. Choose the time range of entries that should be cleared from the database in the **USAGE TIME FRAME** dialog box and choose **NEXT** to continue. See Figure 106.
- 3. The **USAGE USER NAME** dialog box should appear. This dialog box is used to determine which User Names to clear from the USAGE DATABASE. Do the following in this dialog box. See Figure 107.
  - Type in the desired User Names in the USER LIST text box and choose **ADD** to add names to the USER LIST list box.
  - Highlight names in the USER NAME LIST text box and choose **REMOVE** to remove names from the USER LIST list box.
  - Choose VIEW ALL USERS IN THE USER DATABASE to include all users, or choose VIEW ONLY USERS SELECTED IN THE LIST to include users in the USER LIST list box.
  - Choose **SAVE** to save the list of users to the registry. The saved user list will be the default list when clearing data from the USAGE DATABASE.
  - Choose **LOAD** to load the list of user from the registry.
  - Choose **NEXT** to continue.
- 4. The **USAGE NETWORK ADDRESS** dialog box should appear. This dialog box is used to determine which network addresses to clear from the USAGE DATABASE. Do the following in this dialog box. See Figure 108.
  - Enter the desired IP or IPX network addresses in the NETWORK ADDRESS LIST text box and choose **ADD** to add addresses to the NETWORK ADDRESS LIST list box.
  - Highlight addresses in the NETWORK ADDRESS LIST text box and choose **REMOVE** to remove addresses from the NETWORK ADDRESS LIST list box.
  - Choose VIEW ALL ADDRESSES IN THE USER DATABASE to include all addresses, or choose VIEW ONLY ADDRESSES SELECTED IN THE LIST to include addresses in the NETWORK ADDRESS LIST list box.
  - Choose **SAVE** to save the list of addresses to the registry. The saved addresses list will be the default list when USAGE REPORTS are generated.
  - Choose **LOAD** to load the list of addresses from the registry.
  - Choose **NEXT** to continue.
- 5. Choose the types of devices to be cleared from the USAGE DATABASE in the USAGE DEVICE TYPE dialog box. Choose at least one device. Choose **FINISH** to continue. See Figure 109.
- 6. Choose **OK** in the CLEAR USAGE DATABASE message box to clear the entries from the USAGE DATABASE. The data from the database will then be cleared. See Figure 111.



Figure 111 - Clear Usage Database message box

## **Clear Entire Database Menu Item**

The **Clear Entire Database** menu item under the **Usage** control allows the USAGE DATABASE to be cleared. The entire USAGE DATABASE will be cleared. This should be done periodically to remove data that is old and to decrease the size of the database. An unreasonably large database will require an excessive amount of time to generate reports and update.

- 1. Click on the **Clear Entire Database** menu item under the **Usage** control of the LOCAL GLOBALVISION CONSOLE level of the GlobalVision tree. See Figures 96 and 105.
- 2. Choose **OK** in the **CLEAR USAGE DATABASE** message box to clear the entries in the USAGE DATABASE. The data from the database will then be clear. See Figure 111.

# Section 7 – IES (ERS/FTII and Density) Chassis Level

The third level of the GlobalVision hierarchical tree is the IES level, covering the ERS/FTII CHASSIS and the DENSITY CHASSIS. Both are types of Cubix chassis or enclosures for computer boards. They are listed underneath LOCAL GLOBALVISION CONSOLE. Listed underneath this level are the computer boards.

To expand the GlobalVision tree, double-click on the IES description or single-click on the plus sign in front of the IES description. See Figure 112.

To retract the GlobalVision tree, double-click on the IES description or single-click on the minus sign in front of the IES description. See Figure 112.

The name "IES n", where "n" is the address of the IES Module, can be changed. Use the mouse and click on the description text once. The name can now be changed. Suitable names could be the type of chassis that is being monitored (either ERS/FT II or DENSITY), where the chassis is located, or the type of environment the chassis is operating in. Caution should be used in choosing a name to avoid confusion with other chassis.

The order of the equipment in the GlobalVision hierarchy tree is sorted alphabetically when a branch is first opened. If desired, the order of the equipment may be preserved by leaving the default description and appending any additional information, e.g. "IES 1" becomes "IES 1 - ERS/FT II". The IES Module order can then be preserved.

The features, information tabs, and controls for a IES under a LOCAL GLOBALVISION CONSOLE are different from the features, information tabs, and controls for a REMOTE IES under a REMOTE GLOBALVISION CONSOLE.

Image: Second system       Bile     Yiew       Network     Window       Help		
Clobal View  Cubix Enterprise  Cubix Enterprise Cubix Enterprise  Cubix Enterprise Cubix Enterprise Cubix Enterprise Cubix Enterprise Cubix Enterprise Cubix Enterprise Cubix Enterprise Cubix	Details         Environment         Configuration           Name         Value           Description         IES 4 - ERS/FT II           • Status         Normal           IES Data Highway Address         4	
Alarm Monitor		
Status Type Alarm 7 Subsystem Power Failure	Date/Time 10:25 AM <sub>-</sub> Fri, Jan 30, 1998	Origin A Local V

Figure 112 – IES 4 - ERS/FTII Chassis level, Details tab

## **Information Tab**

The IES level of the GlobalVision hierarchical tree has three information tabs: Details, Environment, and Configuration.

#### **Details Tab**

DETAILS tab shows the specific descriptive information, status, and IES Data Highway Address of the IES level of the GlobalVision hierarchical tree. See Figure 113.

- Description
   Name of the third level in the GlobalVision hierarchical tree.
- Status
   Shows the current status of all the equipment the IES is monitoring.
- IES Data Highway Address Shows the IES Data Highway Address for each chassis. Each chassis within a Local or Remote GlobalVision Console must have a unique address (ranging from 1 to 31).

#### **Environment Tab**

The ENVIRONMENT tab shows the environmental conditions of this specific chassis of the GlobalVision hierarchical tree. The ENVIRONMENT tabs will be slightly different between the ERS/FT II and the DENSITY chassis. See Figure 113 for the ERS/FT II Environment Tab, and Figure 114 for DENSITY Environment Tab.

ER	S/FT II	Environmental Information
•	Temperature	Temperature of the chassis, in Celsius and Fahrenheit scales. See Appendix for a reference table of status indicators.
•	+12 Voltage	Current voltage for the positive 12 volt for the backplane. See Appendix for a reference table of status indicators.
•	+5 Voltage	Current voltage for the positive 5 volt for the backplane. See Appendix for a reference table of status indicators.
•	-12 Voltage	Current voltage for the negative 12 volt for the backplane. See Appendix for a reference table of status indicators.
•	-5 Voltage	Current voltage for the negative 5 volt for the backplane. See Appendix for a reference table of status indicators.
•	Power Supply #1	Current operational status of Power Supply 1. See Appendix for a reference table of status indicators.
•	Power Supply #2	Current operational status of Power Supply 2. See Appendix for a reference table of status indicators.
•	Fan #1	Current operational status of Fan 1. See Appendix for a reference table of status indicators.
•	Fan #2	Current operational status of Fan 2. See Appendix for a reference table of status indicators.
•	Shared Keyboard Fuse	Current operational status of the keyboard over-current fuse See Appendix for a table of status indicators.
•	Shared Floppy Fuse	Current operational status of the floppy drive over-current fuse. See Appendix for a table of status indicators.
•	Slot Fuses/Circuit Breakers	Current operational status of the slot fuse and circuit breaker for each group in the backplane. See Appendix for a table of status indicators.



Figure 113- IES (ERS/FTII Chassis) level, Environment tab

Density		Environmental Information
•	Temperature	Temperature of the chassis, in Celsius and Fahrenheit scales. See Appendix for a reference table of status indicators.
•	+12 Voltage	Current voltage for the positive 12 volt for the backplane. See Appendix for a reference table of status indicators.
•	+5 Voltage	Current voltage for the positive 5 volt for the backplane. Appendix for a reference table of status indicators.
•	-12 Voltage	Current voltage for the negative 12 volt for the backplane. See Appendix for a reference table of status indicators.
•	-5 Voltage	Current voltage for the negative 5 volt for the backplane. See Appendix for a reference table of status indicators.
•	Power Supply #1	Current operational status of Power Supply 1. See Appendix for a reference table of status indicators.
•	Power Supply #2	Current operational status of Power Supply 2. See Appendix for a reference table of status indicators.
•	Power Supply #3	Current operational status of Power Supply 3. See Appendix for a reference table of status indicators.
•	Fan #1	Current operational status of Fan 1. See Appendix for a reference table of status indicators.
•	Fan #2	Current operational status of Fan 2. See Appendix for a reference table of status indicators.
•	Fan #3	Current operational status of Fan 3. See Appendix for a reference table of status indicators.
•	Shared Keyboard Fuse	Current operational status of the keyboard over-current fuse. See Appendix for a table of status indicators.
•	Shared Floppy Fuse	Current operational status of the floppy drive over-current fuse. See Appendix for a table of status indicators.
•	Slot Fuses/Circuit Breakers	Current operational status of the slot fuse and circuit breaker for each group. See Appendix for a table of status indicators.

# **Configuration Tab**

The CONFIGURATION tab shows the configuration conditions of the specific chassis of the GlobalVision hierarchical tree (ERS/FT II or Density). See Figure 114 for the ERS/FT II Chassis and the Density Chassis.

#### ERS/FT II CHASSIS or DENSITY CHASSIS

Displays the type of chassis. Subsystem Type . The temperature above which the IES Module will report the **Temperature Threshold** temperature is out of range and create warning messages. The number of seconds the IES Module will wait between polls of Poll Interval the computer boards for activity. Number of seconds after a reset the IES Module will wait for a **Reboot Timeout** . computer board to boot and become "Active" before reporting the computer board "Inactive". IES Date / Time Current time of the IES Module. Each IES Module keeps its own

time.

Image: Second system       Image: Second system         Image: Second		
Global View Cubix Enterprise Cubix Enter	Details         Environment         Configuration           Name         Value         Subsystem Type         Enhanced Resource S           Temperature Threshold         50°C / 121°F         Poll Interval         1 s           Reboot Timeout         60 s         IES Date/Time         01/27/98 18:55:04	Jubsystem/Fault Tolerant II (1
Alarm Monitor		
Status Type Alarm , 7 Subsystem Power Failure	Date/Time 10:25 AM _Fri, Jan 30, 1998	Origin A Local V

Figure 114 – ERS/FTII or DENSITY Chassis level, Configuration tab

#### **Control Features**

The IES CHASSIS level of the GlobalVision hierarchical tree has three control features (ERS/FT II or Density): Configure, Set Date and Time, and Invalidate Firmware.

- 1. Double-click on the CUBIX ENTERPRISE description to expand the GlobalVision tree.
- 2. Double-click on the LOCAL GLOBALVISION CONSOLE description to expand the GlobalVision tree.
- 3. Click on the IES CHASSIS description.
- 4. Right-click on the description to reveal the IES CHASSIS pull-down menu. The menu items available are **Configure**, **Set Date And Time**, and **Invalidate Firmware**.
- 5. Click on the desired control feature to continue.

# **Configure Control**

The **Configure** control is used to configure several parameters and options for the specific chassis. This may be necessary if the IES Module of the chassis loses its configuration or if some configuration options for the chassis changes.

- 1. Click on the IES CHASSIS (ERS/FT II or Density) description.
- 2. Right-click on the description to reveal the IES CHASSIS pull-down menu. The menu items available are **Configure**, **Set Date And Time**, and **Invalidate Firmware**.
- 3. Click on the **Configure** menu item. See Figure 115.

🍪 GlobalVision				_ 🗆 🗵
<u>F</u> ile ⊻iew <u>N</u> etwork <u>W</u> indow <u>H</u> elp				
🔇 Global Vie <del>w</del>				
Erre Cubix Enterprise	Details	Environment	Configuration	
E. Cocal Globalvision Console	Name		Value	
	Descrip	tion	IES 4 - ERS/FT II	
🖉 🔍 🖉 🔤 BC 1 - Wind Configur	'e	ighway Address	Normal 4	
BC2 Set Date	e and Time	,	•	
	te Firmware			
BC5 - Windows NT				
• • BC 6				
Status Type Alarm		Date/Ti	me	Origin 📩
1 7 Subsystem Power Failure		10:25 A	M _Fri, Jan 30, 1998	

Figure 115 - ERS/FTII (or DENSITY) Chassis controls

4. The SUBSYSTEM TYPE dialog box should appear. Choose the type of chassis from the available list. Click **NEXT** to continue. See Figure 116.

Subsystem Type			
			IES 4
	C Other		
	C BOS		
	C ERS		
	O ERS FT		
	O ERS II		
	• ERS FT II		
	C SafeStor FT II		
	C Density Series		
< <u>B</u> ack	<u>N</u> ext>	Cancel	Help

Figure 116- Subsystem Type dialog box

 Choose which power supplies, fans, and fuses should be monitored in the chassis in the SUBSYSTEM ENVIRONMENT dialog box. Choose whether the speaker will be activated, causing the chassis to make a beeping noise if there are any errors. Click NEXT to continue. See Figure 117.

Subsystem Environment	
Power Supplies	IES 4
Power Supply 2	
Fans	
I Fan 2 □ Fan 3	
Fan 4	
Group Power	
Keyboard Power	
CD-ROM	
	ucel Help

Figure 117- Subsystem Environment dialog box

6. Choose the temperature threshold in the TEMPERATURE THRESHOLD dialog box. This is the temperature above which the IES Module will report an environmental error and send an alarm to the Local GlobalVision Console. Click on **NEXT** to continue. See Figure 118.



Figure 118 - Temperature Threshold dialog box

- 7. Choose values for the REBOOT TIMEOUT and the POLL INTERVAL in the *PROCESSOR* INTERVALS dialog box. Click **FINISH** to complete the configuration. See Figure 119.
  - The REBOOT TIMEOUT is the number of seconds after a reset that the IES Module will wait for a computer board to boot and become "Active" before reporting the computer board "Inactive".
  - The POLL INTERVAL is the number of seconds the IES Module will wait between polls of the computer boards for activity.

Processor Intervals
Reboot Timeout Adjust the Reboot Timeout here. This is the number of seconds after a reset that the IES will wait for a processor to boot and become "active" before reporting the processor "inactive".
Poll Interval Adjust the Poll Interval here. This is the number of seconds that the IES will wait between polls of the processors for activity.
1
< Back Finish Cancel Help

Figure 119 - Processor Interval dialog box

#### Set Date And Time Control

The **Set Date And Time** control is used to set the date and time of the IES Module (ERS/FT II or Density). The date and time sent to the IES Module are from the Local GlobalVision Console. This may be necessary if the IES Module of the chassis loses its date and time.

- 1. Click on the CHASSIS description (ERS/FT II or Density).
- 2. Right-click on the description to reveal the CHASSIS pull-down menu. The menu items available are **Configure**, **Set Date And Time**, and **Invalidate Firmware**.
- 3. Click on the **Set Date And Time** menu item. There is no warning message box before this action is completed. See Figure 120.
- 4. The date and time from the Local GlobalVision Console are sent to the IES Module.

#### Invalidate Firmware Control

The **Invalidate Firmware** control is used to invalidate the firmware running on the IES Module of the chassis (ERS/FT II or Density). This control forces the firmware on the IES Module to become invalid. The chassis will not be monitored by GlobalVision until new firmware has been downloaded.

Only a chassis listed under a Local GlobalVision Console can perform the **Invalidate Firmware** control. The **Invalidate Firmware** control cannot be used from a chassis under a Remote GlobalVision Console. This is because only the Local GlobalVision Console can use the **Add IES** control to add an IES Module in a chassis to it, so only the Local GlobalVision Console can use the **Invalidate Firmware** control to remove an IES Module in a chassis from it.

After the firmware has become invalid, GlobalVision will try to send new valid firmware to the IES Module. Sometimes during the download, a computer board may be reset. It is recommended to gracefully down all servers and services running on the computer boards before invalidating the firmware.

#### WARNING!

DO THIS ONLY IN EXTREME EMERGENCY!!! DO THIS UNDER THE FOLLOWING CONDITIONS.

- The firmware has become corrupt.
- The firmware needs to be downgraded or upgraded to the same version as other chassis.
- If the IES Module in the chassis has been replaced.
- If the chassis has become unresponsive to the GLOBALVISION CONSOLE.
- A new chassis is being added to an environment with existing Cubix equipment.
- 1. Click on the CHASSIS description (ERS/FT II or Density).
- 2. Right-click on the description to reveal the CHASSIS pull-down menu. The menu items available are **Configure**, **Set Date And Time**, and **Invalidate Firmware**.
- 3. Click on the Invalidate Firmware menu item.
- The INVALIDATE FIRMWARE WARNING message box should appear. THIS IS THE ONLY WARNING BEFORE THE FIRMWARE WILL BECOME INVALID. Click on YES to continue or NO to cancel. See Figure 120.



Figure 120 - Invalidate Firmware message box

 Once the firmware has been invalidated, GlobalVision is going to try to send valid firmware to the IES Module. The next screen that will appear will be the DOWNLOAD FIRMWARE dialog box. New firmware needs to be downloaded to the IES Module for GlobalVision to properly monitor it. Click YES to continue.

- 6. To complete downloading the firmware, the IES Module must be configured. To configure the IES Module, the **Configure** control of the CHASSIS level of the GlobalVision hierarchy tree must be executed. This utility will be executed automatically after the firmware is downloaded.
- 7. The SUBSYSTEM TYPE dialog box should appear. Choose the type of chassis from the available list. In some cases, only one type of chassis can to be chosen. Click **NEXT** to continue.
- 8. Choose which power supplies, fans, and fuses will be monitored in the chassis in the SUBSYSTEM ENVIRONMENT dialog box. Choose whether the speaker will be activated, causing the chassis to beep if there are any errors. Click **NEXT** to continue.
- Choose the temperature threshold in the TEMPERATURE THRESHOLD dialog box. This is the temperature above which the IES Module will report an environmental error and send an alarm to the LOCAL GLOBALVISION CONSOLE. Click NEXT to continue.
- 10. Choose values for the REBOOT TIMEOUT and the POLL INTERVAL in the PROCESSOR INTERVALS dialog box. Click on **FINISH** to complete the configuration. The CHASSIS level in the GlobalVision hierarchy tree will be added underneath the LOCAL GLOBALVISION CONSOLE.
  - The REBOOT TIMEOUT is the number of seconds after a reset that the IES Module will wait for a computer board to boot and become "Active" before reporting the computer board "Inactive".
  - The POLL INTERVAL is the number of seconds the IES Module will wait between polls of the computer boards for activity. You must power down the system to allow the changes to become effective.

## Section 8 – Remote GlobalVision Console Setup

If a Local GlobalVision Console is a Console at which you are working, then a Remote GlobalVision Console is any other **GLOBALVISION CONSOLE** that the Local GlobalVision Console can access. A Local GlobalVision Console may or may not have Cubix products it is responsible for monitoring. **GLOBALVISION CONSOLES** can be configured to monitor each other's equipment, or a **GLOBALVISION CONSOLE** can be an end-user's desktop computer. A **GLOBALVISION CONSOLE** can even be at an end-user's desktop computer at home.

This section details how to install and configure **GLOBALVISION CONSOLES** to monitor each other as Local and Remote GlobalVision Consoles. This section is divided into Preliminary Setup and Configuration Options, Software Installation, and Remote Console Setup. See Chapter 2, Sections 1 and 2 for complete details for Preliminary Setup and Configuration Options of a Local GlobalVision Console.

# **Preliminary Setup and Configuration Options**

The Preliminary Setup and Configuration Options for a Remote GlobalVision Console are the same as for a Local GlobalVision Console. All sub-sections (including Hardware Setup, Operating System, Network Protocols, SNMP Service, Microsoft<sup>®</sup> ODBC Files, and Determining Network Addresses) can be used to setup a computer to be a Remote GlobalVision Console. See Section ---- for complete details for Preliminary Setup and Configuration Options of a Local GlobalVision Console.

# **Remote Console Setup**

Once the **GLOBALVISION CONSOLE** application has been installed and configured on the Remote GlobalVision Console, the Remote is ready to start sending information and alarms to other GlobalVision Consoles.

Remember, a Local GlobalVision Console is the Console currently being worked with, while a Remote GlobalVision Console is any **GLOBALVISION CONSOLE** the Local sends updates to. For a Remote GlobalVision Console to be monitored by a Local GlobalVision Console, the Local GlobalVision Console must be configured to see the Remote GlobalVision Console's network address (TCP/IP or IPX/SPX) and to receive alarms from the GlobalVision Console running on the IES Supervisor. The following configuration instructions will enable a Local GlobalVision Console to see and monitor a Remote GlobalVision Console.

The TCP/IP network address must be in the format xxx.xxx.xxx, where xxx is a decimal number between 0 and 255. The "periods" are mandatory between the decimal numbers.

The IPX/SPX network address must be in the format xxxxxx:yyyyyyyyyyy, where xxxxxxx is an eight digit hexadecimal network number and yyyyyyyyyy is a twelve digit hexadecimal node number. The "colon" between the network and node number is mandatory.

- 1. Press the **START** button on the taskbar of the operating system where the Local GlobalVision Console is located.
- 2. Select the **Programs** option from the available **START** button list.
- 3. Select the GlobalVision group from the available Programs option list.
- 4. Select the **GlobalVision** program from the available **GlobalVision** group list.
- 5. As the application loads, a GLOBALVISION MARQUEE will appear, followed by the **GLOBALVISION CONSOLE.**
- 6. Click on the CUBIX ENTERPRISE.
- 7. Right-click on the description to reveal the Cubix Enterprise pull-down menu. The only menu item is **Add Remote GlobalVision Console.**
- 8. Click on the Add Remote GlobalVision Console menu item.
- 9. The ADD REMOTE GLOBALVISION CONSOLE dialog box should appear. Do the following in the dialog box
  - Enter the IP or IPX address of the Remote GlobalVision Console that is to be updated by this Local GlobalVision Console into the dialog box.
  - Click **OK** when finished.
- A Remote GlobalVision Console icon will now appear in the "Cubix Enterprise" tree. The network address will become the description of the Remote GlobalVision Console that has been added. This description can be changed.
- 11. Click on the added REMOTE GLOBALVISION CONSOLE description.
- 12. Right-click on the description to reveal the Remote GlobalVision Console pull-down menu. The menu items available are **Alarm**, **Usage**, **Network**, and **Remove Remote Console**.
- 13. Click on the Alarm menu item. The menu items available are Generate Report, Clear Database, Clear Entire Database, Receive Alarms From, and Announce Options.
- 14. Click on the **Receive Alarms From** menu item under the **Alarm** control of the Remote GlobalVision Console.
- 15. The RECEIVE ALARMS FROM dialog box should now appear. Do the following in the dialog box:
  - Enter the IP or IPX address of the Remote GlobalVision Console into the SUBSCRIBEES text box and click on **ADD** to add a Remote GlobalVision Console.
  - Highlight any existing IP or IPX address in the address selection box and click on **REMOVE** to remove a Remote GlobalVision Console.
  - Select which alarms should be sent from the Remote GlobalVision Console to the Local GlobalVision Console by highlighting and unhighlighting the desired alarms in the SELECTED ALARMS text box. Use SELECT ALL and CLEAR ALL to choose all or none of the alarms, respectively.
  - Click **OK** when finished.
  - The latest Windows NT® service pack must be re-applied at this time

#### NOTE!

Any **GLOBALVISION CONSOLE** can act as either a Local or Remote GlobalVision Console simultaneously. It is possible for two **GLOBALVISION CONSOLES**, each running on IES Supervisors, to monitor each other's equipment. Additionally, any **GLOBALVISION CONSOLE** can update multiple Remote GlobalVision Consoles.

#### NOTE!

A **GLOBALVISION CONSOLE** that is not managing any Cubix equipment locally (i.e., not running on an IES Supervisor) should not be configured as a Remote GlobalVision Console because it has nothing to be managed. This console could be used to manage other **GLOBALVISION CONSOLES**, however.

#### Section 9 - Remote GlobalVision Console Level

The second level of the GlobalVision hierarchical tree contains the REMOTE GLOBALVISION CONSOLE, as well as the LOCAL GLOBALVISION CONSOLE. Listed underneath this level is the chassis.

A REMOTE GLOBALVISION CONSOLE is any other **GLOBALVISION CONSOLE** seen by the Local GlobalVision Console, not including itself.

To expand the tree, double-click on the REMOTE GLOBALVISION CONSOLE description or single-click on the plus sign in front of REMOTE GLOBALVISION CONSOLE description.

To retract the tree, double-click on the REMOTE GLOBALVISION CONSOLE description or single-click on the minus sign in front of the REMOTE GLOBALVISION CONSOLE description.

When a Remote GlobalVision Console is added, the description defaults to the IP or IPX network address of the Remote GlobalVision Console. This can be changed. Use the mouse and click on the description text once. The name can now be changed. Suitable names could be the area where the **GLOBALVISION CONSOLE** is located, or the type of environment the Console is monitoring. Caution should be used in choosing a name to avoid confusion with other **GLOBALVISION CONSOLES**.

The order of the equipment in the GlobalVision hierarchy tree is sorted alphabetically when a branch is first opened. If desired, the order of the equipment may be preserved by leaving the default description and appending any additional information, *e.g.* "BC 1" becomes "BC 1 - NT Workstation/GlobalVision". The group order can then be preserved.

#### Information Tab

The REMOTE GLOBALVISION CONSOLE level of the GlobalVision hierarchical tree has one information tab: Details.

#### **Details Tab**

The DETAILS tab shows the specific descriptive information, status, and network address of the REMOTE GLOBALVISION CONSOLE level of the GlobalVision tree.

- Description Name of the second level in the GlobalVision hierarchical tree.
- Status Shows the current status of the **GLOBALVISION CONSOLE** (See Appendix A, Section A.2.1.1 for a reference table of status indicators).
- Network Address IP or IPX network address of the REMOTE GLOBALVISION CONSOLE.



Figure 121 - Remote GlobalVision Console, Details tab

#### **Control Features**

The REMOTE GLOBALVISION CONSOLE level of the GlobalVision hierarchical tree has four control features: Alarm, Usage, Network, and Remove Remote GlobalVision Console.

- 1. Double-click on the CUBIX ENTERPRISE description to expand the GlobalVision tree.
- 2. Click on the REMOTE GLOBALVISION CONSOLE description.
- 3. Right-click on the description to reveal the REMOTE GLOBALVISION CONSOLE pull-down menu. The menu items available are **Alarm**, **Usage**, **Network**, and **Remove Remote GlobalVision Console**.
- 4. Click on the desired control feature to continue.

## **Alarm Control**

The **Alarm** control allows access to the **Alarm** menu options. The **Alarm** menu options provide utilities to generate ALARM REPORTS, clear the ALARM DATABASE, and identify which Remote GlobalVision Consoles to receive alarms from.

The **Alarm** menu options for the Remote GlobalVision Console perform exactly the same as for the Local GlobalVision Console, except the reports, alarms, and information are for the Remote GlobalVision Console.

The Announce Options menu item feature is disabled and is not available.

#### Usage Control

The **Usage** control allows access to the **Usage** menu options. The **Usage** menu options provide utilities to generate USAGE REPORTS and clear the USAGE DATABASE.

The **Usage** menu options for the Remote GlobalVision Console perform exactly the same as for the Local GlobalVision Console, except the reports, alarms, and usage information are for the Remote GlobalVision Console.

#### **Network Control**

The **Network** control is used to set network configuration parameters for Local and Remote GlobalVision Consoles. For Local GlobalVision Consoles, the dialog box is used to specify the number of Retries and the Timeout value for SNMP requests sent to the console's agents. For Remote GlobalVision Consoles, the dialog box is used to specify the number of Retries and the Timeout value for SNMP requests sent to the specified Remote GlobalVision Console and its agents. For both consoles, the Timeout value is the number of seconds GlobalVision will wait for an SNMP request before sending it again, and the Retry value is the number of times GlobalVision will send the SNMP request before it reports an error.

The **Network** control for the Remote GlobalVision Console performs exactly the same as for the Local GlobalVision Console.

#### **Remove Remote GlobalVision Console Control**

The **Remove Remote GlobalVision Console** control is used to remove a REMOTE GLOBALVISION CONSOLE from the enterprise monitored by this **GLOBALVISION CONSOLE**.

- 1. Click on the REMOTE GLOBALVISION CONSOLE description.
- 2. Right-click on the description to reveal the Remote GlobalVision Console pull-down menu. The menu items available **Alarm**, **Usage**, **Network**, and **Remove Remote GlobalVision Console**.
- 3. Click on the Remove Remote GlobalVision Console menu item. See Figure 122.

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Figure 122 - Remote GlobalVision Console controls

4. The REMOVE REMOTE GLOBALVISION CONSOLE message box should appear. Click **OK** to remove the REMOTE GLOBALVISION CONSOLE. See Figure 123.



Figure 123 - Remove Remote GlobalVision Console message box

# Section 10 - Remote IES (ERS/FT II or Density) Chassis Level

The third level of the GlobalVision hierarchical tree also contains the REMOTE IES (ERS/FT II or DENSITY) which consists of a Cubix enclosure for computer boards listed underneath a REMOTE GLOBALVISION CONSOLE. Listed underneath this level are the computer boards.

To expand the GlobalVision tree, double-click on the CHASSIS description or single-click on the plus sign in front of CHASSIS description.

To retract the GlobalVision tree, double-click on the CHASSIS description or single-click on the minus sign in front of the CHASSIS description.

The name "IES n", where "n" is the address of the IES Module, can be changed. Use the mouse and click on the description text once. The name can now be changed. Suitable names could be the type of chassis that is being monitored, where the chassis is located, or the type of environment the chassis is operating in. Caution should be used in choosing a name to avoid confusion with other chassis.

The order of the equipment in the Global/Vision hierarchy tree is sorted alphabetically when a branch is first opened. If desired, the order of the equipment may be preserved by leaving the default description and appending any additional information, e.g. "IES 1" becomes "IES 1 - ERS/FT II" or "IES 2" becomes IES 2 - DENSITY. The IES Module order can then be preserved.

The features, information tabs, and controls for the REMOTE IES level under a REMOTE GLOBALVISION CONSOLE are different from the features, information tabs, and controls for an IES under a LOCAL GLOBALVISION CONSOLE. Only the features, information tabs, and controls which are different will be addressed.

#### Information Tabs

The REMOTE IES (ERS/FT II or DENSITY) level of the GlobalVision hierarchical tree has four information tabs: Details, Environment, Configuration, and Front Panel.

#### **Details Tab**

The DETAILS tab shows the specific descriptive information, status, and IES Data Highway Address of the REMOTE IES (ERS/FT II or DENSITY) level under the REMOTE GLOBALVISION CONSOLE of the GlobalVision hierarchical tree.

All information in the DETAILS tab is identical to the information in the DETAILS tab for the IES level under the LOCAL GLOBALVISION.

#### **Environment Tab**

The ENVIRONMENT tab shows the environmental conditions of the REMOTE IES (ERS/FT II or DENSITY) level under the REMOTE GLOBALVISION CONSOLE of the GlobalVision hierarchical tree.

All information in the ENVIRONMENT tab is identical to the information in the ENVIRONMENT tab for the IES level under the LOCAL GLOBALVISION CONSOLE.

#### **Configuration Tab**

The CONFIGURATION tab shows the configuration conditions of the REMOTE IES (ERS/FT II or DENSITY) level under the REMOTE GLOBALVISION CONSOLE of the GlobalVision hierarchical tree.

All information in the ENVIRONMENT tab is identical to the information in the ENVIRONMENT tab for the IES level under the LOCAL GLOBALVISION CONSOLE.

#### Front Panel Tabs for ERS/FT II or Density Chassis

The FRONT PANEL tab is a working representation of the physical front panel of the REMOTE IES (ERS/FT II or DENSITY) level under the REMOTE GLOBALVISION CONSOLE of the GlobalVision hierarchical tree. All the features of the FRONT PANEL tab work exactly the same as if using the front panel while sitting in front of the chassis. See Figures 124 (ERS/FT II) and 125 (DENSITY).

Currently, the FRONT PANEL tab is available for the ERS/FT II series chassis and the DENSITY series chassis. Other types of chassis will not have this tab available within GlobalVision.



Figure 124 - Remote IES (ERS/FT II), Front Panel tab

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		GROUP
🔒 Alarm Monitor		_ 🗆 🗵
Status Type Alarm	Date/Time Origin	Description

Figure 125 - Remote IES (DENSITY), Front Panel tab

#### BC Group Up / Down Buttons for ERS/FT II

The BC GROUP UP / DOWN buttons are used to select a different group to work with on the FRONT PANEL tab of the ERS/FT II. The BC GROUP UP / DOWN buttons are small white square buttons with gray trim. They are located on the top right-hand corner of the FRONT PANEL tab, just to the left of the GROUP POWER button.

The BC Group selected appears in the BC GROUP SELECTED window, which is located on the top right-hand corner of the FRONT PANEL tab, just to the right of the GROUP POWER button. It is the top selected window in the group of three. See Figure 124.

- 1. Click on the BC GROUP UP button to select to the next computer board in the chassis. The new group number will appear in the BC GROUP SELECTED window. See Figure 124.
- 2. Click on the BC GROUP DOWN button to select the previous computer board in the chassis. The new group number will appear in the BC GROUP SELECTED window. See Figure 124.

#### **Previous Group/Next Group for DENSITY**

The PREVIOUS GROUP/NEXT GROUP buttons are used on the Density chassis under the FRONT PANEL tab to select which group will control output to the VKM. The PREVIOUS GROUP/NEXT GROUP buttons are clearly labeled (however, the wording may vary slightly, depending upon the Density chassis version). When the FRONT PANEL tab is selected, they are located on the left side of the Density chassis, just under the CDROM SELECT/DESELECT button.

The group selected will be displayed under the VKM LED columns. The LED will be green if the power to the group is on, red if the power is off. See Figure 125.

#### Group Power Button for ERS/FT II

The GROUP POWER button is used to power up or power down the selected group from the FRONT PANEL tab of the ERS/FT II. The GROUP POWER button is a small black square button. It is located on the top right-hand corner of the FRONT PANEL tab, in between the BC GROUP UP / DOWN buttons and the BC GROUP SELECTED window, and just below the GROUP POWER ON / OFF indicators. See Figure 124.

The GROUP POWER ON / OFF indicators show whether the group currently has power. The GROUP POWER ON / OFF indicators are two LEDs, which can be green, red, or not illuminated. They are located on the top right-hand corner of the FRONT PANEL tab, just above the GROUP POWER button. See Figure 124.

- If the GROUP POWER ON indicator is green and the GROUP POWER OFF indicator is not illuminated, the group is receiving power.
- If the GROUP POWER OFF indicator is red and the GROUP POWER ON indicator is not illuminated, the group is not receiving power.

The GROUP POWER button affects power to the entire group. The power will be turned on or off for all computer boards within the group, including all Cubix and third-party boards located in ISA and PCI expansion slots.

#### TO POWER OFF A GROUP:

- 1. Verify by looking at the GROUP POWER ON / OFF indicators that the group is receiving power.
- 2. Click on the GROUP POWER button to power off the selected group. See Figure 124.

3. The POWER DOWN CONFIRMATION message box should appear. **THIS IS THE ONLY WARNING BEFORE THE SELECTED GROUP IS POWERED DOWN.** Click on **YES** to power down the group. See Figure 126.

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i - • ■ IES 29	
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• BC 3 • BC 4	MP SERIAL PORT
- • - BC 5	SUBSYSTEM DATA TRANSMIT
• E BC 7	POWER SUPPLY 2 4 CARRIER 4 4 FANS 4 DTR 4
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	I his option will remove power from the processor immediately, which may be disruptive to some operating systems. Uo
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Alarm Monitor	
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	<u>×</u>
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Figure 126 - Power Down Confirmation message box

#### TO POWER ON A GROUP:

- 1. Verify using the GROUP POWER ON / OFF indicators that the group is not receiving power.
- 2. Click on the GROUP POWER button to power on the selected group. See Figure 124.

# POWER ON/OFF SELECTED GROUP for DENSITY

The POWER ON/OFF SELECTED GROUP button is used to power on or off an individual group(s). The POWER ON/OFF SELECTED GROUP button is a small black square button. It is located on the left side of the FRONT PANEL tab, above the VKM CD LEDs. See Figure 127.

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Figure 127 – POWER ON/OFF SELECTED GROUP button

The VKM LED for the selected group will indicate the power status.

- If the VKM LED is green, the power to the group is on
- If the VKM LED is red, the power to the group is off
- If there is no LED light illuminated, there may not be a computer board installed in the group

#### TO POWER OFF A GROUP:

- 1. Verify by looking at the CDROM LEDs that the group is receiving power.
- 2. Use the PREVIOUS GROUP or NEXT GROUP buttons to select the group you want to be powered off. Check Figure 127 for location.
- 3. Click on the POWER ON/OFF SELECTED GROUP button.
- 4. The POWER DOWN CONFIRMATION message box should appear. THIS IS THE ONLY WARNING BEFORE THE SELECTED GROUP IS POWERED DOWN. Click on YES to power down the group.

#### BC Reset Button for ERS/FT II

The BC RESET button is used to reset the computer board in the selected group from the FRONT PANEL tab for the ERS/FT II. The BC RESET button is a small black square button. It is located on the top right-hand corner of the FRONT PANEL tab, below the MP SERIAL PORT UP button. See Figure 124.

The reset performed is a hard reset of the computer board, just as if the reset button was pressed on a standard PC. The BC RESET button on the FRONT PANEL tab behaves exactly like the BC RESET button on the physical FRONT PANEL of the chassis.

Make certain before performing any reset function on a computer board that the operating system running on the computer board is in a state it can be reset. Some operating systems will not behave correctly if they are not downed in a proper fashion. Please see the users and reference manuals of any operating systems running on Cubix products for proper procedures for downing the operating systems.

- 1. Click on the BC RESET button to reset the selected group. See Figure 124.
- The PROCESSOR RESET CONFIRMATION message box should appear. THIS IS THE ONLY WARNING BEFORE THE COMPUTER BOARD IN THE SELECTED GROUP IS RESET. Click on YES to reset the computer board. See Figure 128.



Figure 128 - Processor Reset Confirmation message box for ERS/FT II

# **RESET SELECTED GROUP for DENSITY**

The RESET SELECTED GROUP button is used to reset the computer board in the selected group from the FRONT PANEL tab. The RESET SELECTED GROUP button is a small black square button. It is located on the top left half of the Density front panel, above the POWER ON/OFF SELECTED GROUP button. See Figure 125.

The reset performed is a hard reset of the computer board, just as if the reset button was pressed on a standard PC. The RESET SELECTED GROUP button on the FRONT PANEL tab behaves exactly like the RESET SELECTED GROUP button on the physical FRONT PANEL of the chassis.

Make certain before performing any reset function on a computer board that the operating system running on the computer board is in a state it can be reset. Some operating systems will not behave correctly if they are not downed in a proper fashion. Please see the users and reference manuals of any operating systems running on Cubix products for proper procedures for downing the operating systems.

- 1. Click on the RESET SELECTED GROUP button to reset the selected group. See Figure 125.
- The PROCESSOR RESET CONFIRMATION message box should appear. THIS IS THE ONLY WARNING BEFORE THE COMPUTER BOARD IN THE SELECTED GROUP IS RESET. Click on YES to reset the computer board. See Figure 129



Figure 129 – Processor Reset Confirmation message box for DENSITY

## Video Select Button for ERS/FT II

The VIDEO SELECT button brings up the following menu items: **Remote Control BC** and **Press Switch**. The VIDEO SELECT button is a small white square button with gray trim. It is located on the bottom right-hand corner of the FRONT PANEL tab, in between the Console Lock and the VIDEO SELECT indicators. See Figure 130.

- 1. Click on the VIDEO SELECT button to reveal the VIDEO SELECT pull-down menu. The menu items available are **Remote Control BC** and **Press Switch.** See Figure 130.
- 2. Click on the desired control feature to continue.



Figure 130 - Front Panel tab, Video Select Button controls for ERS/FT II

## **CD-ROM SELECT/DESELECT Button for DENSITY**

The CD-ROM SELECT/DESELECT button allows you to assign the CD-ROM drive to an individual group. The CD-ROM SELECT/DESELECT button is a small black button located on the top right half of the Density Chassis, above the PREVIOUS GROUP/NEXT GROUP buttons. See Figure 125.

- Use the PREVIOUS GROUP or NEXT GROUP buttons to select the group you want to assign the CD-ROM drive to (the VKM LEDs will indicate which group is selected). It will be necessary to POWER OFF the group you want to change from first, as well as the group you want to change to, BEFORE YOU CHANGE GROUPS!
- 2. Click on the CD-ROM SELECT/DESELECT button. The CD LED will now be green. (Note: The operating system for the selected group must have the proper CD-ROM drivers installed.)
- 3. Reboot the group so it can acknowledge the attached CD-ROM drive.

## STATUS LIGHTS for DENSITY

The Status Lights for POWER, FANS and TEMPERATURE display diagnostic information. The Status Lights are located in the center on the top of the Density Chassis and are accessible through the FRONT PANEL tab. See Figure 125.

- Power A Green LED indicates the power supplies are functioning properly. A Red LED indicates a failure of one of the power supplies, or power supply fans.
- Fans A Green LED indicates that the system fans are operating correctly. A Red LED indicates a system fan failure.
- Temperature A Green LED indicates the system temperature is within acceptable operating parameters. A Red LED indicates system temperature has exceeded acceptable operating parameters.

## **REMOTE CONTROL BC CONTROL for ERS/FT II and DENSITY**

The **Remote Control BC** menu item is used to take over the computer board using a third-party remote control application. This may be necessary to perform maintenance or troubleshoot an operating system or application, to add or remove an application to the operating system, or to properly down the operating system. All this can be done remotely.

The TCP/IP network address must be in the format xxx.xxx.xxx.xxx, where xxx is a decimal number between 0 and 255. The "periods" are mandatory between the decimal numbers.

The IPX/SPX network address must be in the format xxxxxxx:yyyyyyyyyy, where xxxxxxx is an eight digit hexadecimal network number and yyyyyyyyyy is a twelve digit hexadecimal node number. The "colon" between the network and node number is mandatory.

- Click the Remote Control BC menu item from the VIDEO SELECT button on the ERS/FT II. See Figure 131. Click the Remote Control BC menu item from the SELECT CHASSIS button on DENSITY, See Figure 132.
- 2. The REMOTE CONTROL COMMAND LINE dialog box should appear. Do the following in this dialog box. See Figure 133.
  - Enter the complete command line for the remote control application into the COMMAND LINE text box.
  - Enter the complete path and any necessary parameters the command requires, including the network address or computer name. Necessary parameters will vary depending on the third-party remote control software application used
  - To place the network address or computer name in the command line, click on the **ADDRESS** or **NAME** buttons, respectively, as the command line is being entered.
  - Click **OK** to continue.



Figure 131 – Remote Control BC menue item from Video Select button on ERS/FT II



Figure 132 – Remote Control BC menue item from Select Chassis button on Density

Remote Control Command Line				
Enter the complete command line to remote control this Cubix Processor in the space below. Enter the complete path and any parameters that the command needs, including network address or computer name.				
To place the Network address or computer name in the command line, press the Address or Name buttons respectively as you are typing.				
Command Line				
c:\netop\guest\nguestw 100.100.100.113				
Address	Name			
ок	Cancel			

Figure 133 - Remote Control Command Line dialog box

3. The third-party remote control application will be executed. Please see the user manual of the application for installation, configuration, operation, and maintenance instructions.

## PRESS SWITCH CONTROL on ERS/FT II

The **Press Switch** control is used to enable and disable the keyboard and mouse input and video output for the chassis. The Press Switch control behaves exactly like the VIDEO SELECT button on the front panel on the chassis, as if sitting physically in front of the chassis.

- Click on the **Press Switch** menu item from the VIDEO SELECT button to disable input and output. The video output will cease and the computer board will be unable to accept keyboard and mouse input. See Figure 131.
- Click on the Press Switch menu item from the VIDEO SELECT button to enable input and output. The video output will resume and the computer board will be able to accept keyboard and mouse input. See Figure 131.

#### **Control Features**

The REMOTE CHASSIS (PROCESSOR) level of the GlobalVision hierarchical tree has three control features: **Configure**, **Set Date And Time**, and **Invalidate Firmware**.

The functionality of the **Configure** control is identical to the functionality of the **Configure** control for the IES level under the LOCAL GLOBALVISION CONSOLE.

The functionality of the **Set Date And Time** control is identical to the functionality of the **Set Date And Time** control for the IES level under the LOCAL GLOBALVISION.

Only a chassis under a Local GlobalVision Console can perform the **Invalidate Firmware** control. The **Invalidate Firmware** control cannot be used from a chassis under a Remote GlobalVision Console. This is because only the Local GlobalVision Console can use the **Add IES** control to add an IES Module, so only the Local GlobalVision Console can use the **Invalidate Firmware** to remove an IES Module.

Though the **Invalidate Firmware** control is not disabled, this control will not have any functionality under a REMOTE IES level under a REMOTE GLOBALVISION CONSOLE.

# Section 11 – Operation of GV Web

GlobalVision Web is a split window that provides easy management of the Cubix enterprise over the Internet. GV Web provides an integrated view of Cubix servers. GV Web also provides administrators the ability to check the status of various servers, reset locked processors, schedule selected processors for shutdown and perform numerous other management tasks that are required to insure efficiency and maximum uptime of a large fleet of network servers.

The GV Web split window shows a hierarchical tree of the Cubix hardware on the left side, and on the right side, detailed specific information about the node currently highlighted on the left side. GV Web shows all the information regarding the Cubix Enterprise, Local and Remote GlobalVision Consoles, two different types of IES levels and computer boards.



To connect to GV Web, log in the location. See Figure 134.

Figure 134 – GV Web splash screen

#### **GV Web Hierarchical Tree**

Because GV Web is an extension of the Local GlobalVision Console, the control feature and tabs will be very similar. Just like the Local GlobalVision Console, GV Web displays the Cubix products that are being monitored in a hierarchical tree structure. The top of the tree is the CUBIX ENTERPRISE, which consists of equipment being monitored by GlobalVision. The next level is the LOCAL GLOBALVISION CONSOLES. The next level is the IES (ERS/FT II or DENSITY describes the type of enclosure). The last level is the PROCESSORS (whether it is a BC, SP, DP or CP). GV Web has all the control features of the GlobalVision Console, except that GV Web cannot access REMOTE CONSOLES or manage via the FRONT PANEL button.

Following will be a display of the various GV Web screens with their various control features. Because of the similarities to the GlobalVision Console, you can refer to Chapter 5, Operation of GlobalVision, for more specific information.

#### Information Tabs

The CUBIX ENTERPRISE level of the GV Web hierarchical tree has two information tabs: **Details** and **Add GlobalVision Console.** See Figure 135.

• **Details** will provide the name of the CUBIX ENTERPRISE and a summary of the Status of all the consoles within the CUBIX ENTERPRISE



Figure 135 – GV Web, Cubix Enterprise level - Details

♦ Add GlobalVision Console will provides a query form. You must type in the IP or IPX address of the GlobalVision Console to be added. The console will appear in the navigation frame at the next refresh ("refreshes" occur approximately every 30 seconds). See Figure 136.



Figure 136 – GV Web, Enterprise Level – Add GlobalVision Console query screen

# **GlobalVision Console Level**

The GLOBALVISION CONSOLE level of the GV Web hierarchical tree has three control features: **Details**, **Alarms and Remove GlobalVision Console.** See Figure 137.

• **Details** will provide the name of the GlobalVision Console (in this case "Test") and a summary of the status of all the IES chassis and all BC boards under the IES control.



Figure 137 – GV Web, Local GlobalVision Console Level – Details

Alarms will provide provide a form for specifying which alarms you want reported. You must enter the times and dates you want reported, and select from the list the alarms you want reported. See Figure 138.



Figure138 – GV Web, GlobalVision Console level – Alarm Report Screen

Remove GlobalVision Console will provide a form allowing you the ability to remove a console from the CUBIX ENTERPRISE. The form will contain the name of the console, IP or IPX address and a box that says "Yes, Remove it." If you click on this box, the console will be removed at the next refresh. See Figure 139.

Education with Education - Petition			1fils
Seat S Bacad Horse	Least Hologe Part State	0 11	N
- • E Cate Concenter + • • Test	GVC 10.1.1.201 Details Alarma Remove Global	Autan Consolio	
	Do you want to remove the Globa	Vision Canaale described below?	
	Description	Datasis Address	
	<u>Yan, Fi</u>	an pool t	
1 Jacob State	J	1 No. 40 10	*

Figure 139 – GV Web, GlobalVision Console level – Remove GlobalVision Console

# IES (ERS/FT II or Density) Chassis Level

The IES level (either ERS/FT II or DENSITY) of the GV Web hierarchical tree has three control features: **Details, Environment and Configuration.** See Figure 140.

• **Details** will provide the description or name of the IES and a summary of the status of all of the BC boards under it's control.



Figure 140 – GV Web, IES level – Details

• Environment will provide a detailed list of environmental conditions. See Figure 141.



Figure 141 – GV Web, IES level – Environment tab

• Configuration shows the configuration conditions of the specific IES, or chassis. See Figure 142.



Figure 142 – GV Web, IES level – Configuration

## BC Level

The BC level of the GV Web hierarchical tree has nine control features: **Controls, Details, System, Network, Mouse, Drive, LPT Ports, COM Ports and Management.** See Figure 143.

 Controls provides the ability for the Administrator to RESET, CLEAR RESET COUNTERS, ENABLE CPR, DISABLE CPR, ENABLE POL, DISABLE POL, FORCE OFFLINE, FORCE ONLINE, POWER OFF GROUP and POWER ON GROUP.



Figure 143 – GV Web, BC level – Controls

 If RESET, FORCE OFFLINE or POWER OFF GROUP are selected, a dialog box will appear asking the Administrator to enter a password. This is a security feature and the correct password must be entered before the computer board can be reset, forced offline or powered down. See Figure 144.



Figure 144 – GV Web, BC level – Password dialog box

 If CLEAR RESET COUNTERS, ENABLE CPR, DISABLE CPR, ENABLE POL, DISABLE POL, FORCE ONLINE or POWER ON GROUP are selected, the command selected will take immediate affect.

The remaining tabs: DETAILS, SYSTEM, NETWORK, MOUSE, DRIVE LPT PORTS, COM PORTS and MANAGEMENT are informational tabs, which give detailed information on each of the individual items associated with the BC board.

# Appendix

## Section 1 – Setup and Configuration Options for Windows-based Operating Systems

There are several items and configurations which must be setup after installation of a **GLOBALVISION AGENT** and **IES RESPONDER**. These items include: Network Protocols and SNMP Service. These items must be considered or administered for a successful installation.

#### **Network Protocols**

After the operating system, the **GLOBALVISION AGENT**, and **IES RESPONDER** have been installed (including installation of IPX/SPX and/or TCP/IP network protocols), the network protocols need to be configured to the network environment. The two most common network protocols GlobalVision uses are IPX/SPX and TCP/IP. The following sections will detail how to configure a computer board running the **GLOBALVISION AGENT** and **IES RESPONDER** to the network environment so it can be monitored. Both network protocols are accessed from the NETWORK dialog box in the CONTROL PANEL group.

- 1. Press the START button on the taskbar of the operating system.
- 2. Select the **Settings** option from the available **START** button.
- 3. Select the **Control Panel** option from the available **Settings** option list. This will open up the CONTROL PANEL group.
- 4. Select the network icon in the CONTROL PANEL group. The NETWORK dialog box will appear .
- 5. Select the PROTOCOLS tab in the NETWORK dialog box.

#### **Configuration of TCP/IP Network Protocol**

If the network uses the TCP/IP network protocol, this network protocol needs to be configured for the **GLOBALVISION AGENT**.

The TCP/IP network address must be in the format xxx.xxx.xxx, where xxx is a decimal number between 0 and 255. The "periods" are mandatory between the decimal numbers.

- 1. Select the PROTOCOLS tab in the NETWORK dialog box.
- 2. Select the **TCP/IP Protocol** option in the available network protocols list, then click on the **PROPERTIES...** button. The Microsoft<sup>®</sup> TCP/IP PROPERTIES dialog box will appear.
- 3. Select the IP ADDRESS tab in the Microsoft<sup>®</sup> TCP/IP PROPERTIES dialog box.
- 4. Do the following in the Microsoft<sup>®</sup> TCP/IP PROPERTIES dialog box:
  - Select the correct network adapter from the list in the ADAPTER drop-down list.
  - Enter the correct IP address for the network in the IP ADDRESS text box.
  - Enter the correct subnet mask for the network in the SUBNET MASK text box.
  - Click on **OK** when finished.
- 5. Click on **OK** on the NETWORK dialog box.
- Configuration of the operating system is now complete. The computer or server board needs to be rebooted. Follow proper shutdown procedures for the operating system and reboot the system. Please see the Windows NT<sup>®</sup> user's manual for proper shutdown procedures.

### **Configuration of IPX/SPX Network Protocol**

If the network uses the IPX/SPX network protocol, this network protocol needs to be configured for the **GLOBALVISION AGENT**.

- 1. Select the PROTOCOLS tab in the NETWORK dialog box.
- Select the NWLink IPX/SPX Compatible Transport option in the available network protocols list, then click on the PROPERTIES... button. The NWLink IPX/SPX PROPERTIES dialog box will appear.
- 3. Do the following in the NWLink IPX/SPX PROPERTIES dialog box:
  - Select the network adapter from the available list in the ADAPTER drop-down list.
  - Choose the frame type from the available list in the FRAME TYPE drop-down list.
  - Click **OK** when finished.
- 4. Click on **CLOSE** or **OK** on the NETWORK dialog box.
- Configuration of the operating system is now complete. The computer or server board needs to be rebooted. Follow proper shutdown procedures for the operating system and reboot the system. Please see the Windows NT<sup>®</sup> user's manual for proper shutdown procedures.

#### **SNMP Service**

Microsoft<sup>®</sup> SNMP Service must be installed and enabled on the Windows operating system of the computer board. Please refer to the user's manual of the operating system for installation and configuration instructions for installing and enabling the SNMP Service.

Certain options for SNMP Service must be configured for the **GLOBALVISION AGENT**. SNMP Service must be enabled for proper operation of the **GLOBALVISION AGENT**.

#### **Configuration of SNMP Service**

Certain options for SNMP Service must be configured for the **GLOBALVISION AGENT**. The community name and SNMP trap destinations must be specified.

- 1. Press the **START** button on the taskbar of the operating system where the **GLOBALVISION AGENT** is located.
- 2. Select the **Settings** option from the available **START** button list.
- 3. Select the **Control Panel** option from the available **Settings** option list. This will open up the CONTROL PANEL group.
- 4. Select the network icon in the CONTROL PANEL group. The NETWORK dialog box will appear.
- 5. Select the SERVICES tab in the NETWORK dialog box.
- 6. Select the SNMP SERVICE option in the available services list, then click on the **PROPERTIES...** button. The Microsoft<sup>®</sup> SNMP PROPERTIES dialog box will appear.
- 7. Select the SECURITY tab in the Microsoft<sup>®</sup> SNMP PROPERTIES dialog box.

- 8. Do the following in the Microsoft<sup>®</sup> SNMP PROPERTIES dialog box to configure the computer board to the network to send SNMP traps:
  - Enable SEND AUTHENTICATION TRAP check-box.
  - Verify "public" is in the ACCEPTED COMMUNITY NAME list box. "public" must be in lowercase.
  - ACCEPT SNMP PACKETS FROM ANY HOST is enabled.
- 9. Select the TRAPS tab in the Microsoft<sup>®</sup> SNMP PROPERTIES dialog box.
- 10. Do the following in the Microsoft<sup>®</sup> SNMP PROPERTIES dialog box to configure the computer board to send SNMP traps:
  - Verify "public" is entered in the COMMUNITY NAME drop-down list.
  - Verify the correct TCP/IP or IPX network address of the Local GlobalVision Console is entered in the TRAP DESTINATIONS list box. See Chapter 2, Section 2, Console Software Installation for determining the IPX or TCP/IP address of the Local GlobalVision Console.
  - If the network address is incorrect, click on the ADD button underneath the list box.
  - The SERVICE CONFIGURATION dialog box should appear. Enter the TCP/IP or IPX network address of the Local GlobalVision Console in the IP HOST OR IPX ADDRESS text box. Click **ADD** when finished. See Figure 145.

Service Configuration	? ×
IP Host or IPX Address:	Add
100.100.100.100	Cancel

#### Figure 145 - Service Configuration dialog box

- Click **OK** in the Microsoft<sup>®</sup> SNMP PROPERTIES dialog box when finished.
- 1. Click **CLOSE** or **OK** on the NETWORK dialog box.
- 2. Configuration of the operating system is now complete. The computer or server board needs to be rebooted. Follow proper shutdown procedures for the operating system and reboot the system. Please see the Windows NT<sup>®</sup> user's manual for proper shutdown procedures.

#### **Enabling SNMP Service**

SNMP Service for the **GLOBALVISION AGENT** must be enabled. The **GLOBALVISION AGENT** will not send SNMP traps and information to the Local GlobalVision Console if the SNMP Service is disabled. However, SNMP Service must be disabled for any computer boards that are operating as a Local or Remote GlobalVision Console.

- 1. Press the **START** button on the taskbar of the operating system where the **GLOBALVISION AGENT** is located.
- 2. Select the **Settings** option from the available **START** button list.
- 3. Select the **Control Panel** option from the available **Settings** option list. This will open up the CONTROL PANEL group.

- 4. Select the services icon in the CONTROL PANEL group. The SERVICES dialog box will appear.
- 5. Do the following in the SERVICES dialog box to disable SNMP Service. Scroll down the SERVICES list until "SNMP" and "SNMP Trap Service" items appear.
  - Select "SNMP" by clicking on it.
  - Click on the **STARTUP...** button. The SERVICE dialog box should appear. See Figure 146.
  - In the SERVICE dialog box, set the STARTUP TYPE to AUTOMATIC.
  - Click **OK** to close the SERVICE dialog box.
  - Repeat the previous four steps for "SNMP TRAP SERVICE".

ervices			x
Ser <u>v</u> ice	Status	Startup	Close
Plug and Play	Started	Automatic	
Remote Procedure Call (RPC) Locator		Manual	Start
Remote Procedure Call (RPC) Service	Started	Automatic	
Schedule		Manual	Stop
Server	Started	Automatic	- David
SNMP	Started	Automatic	Eause
SNMP Trap Service 😽	Started	Automatic	Continue
Spooler	Started	Automatic	2500000
TCP/IP NetBIOS Helper	Started	Automatic 🏾	Startup
Telephony Service		Manual	▼
			H <u>W</u> Profiles
St <u>a</u> rtup Parameters:			
			Help

Figure 146 - Services dialog box

- 1. Click **CLOSE** to finish and close the SERVICES dialog box.
- 2. Configuration of the operating system is now complete. The computer or server board needs to be rebooted. Follow proper shutdown procedures for the operating system and reboot the system. Please see the Windows NT<sup>®</sup> user's manual for proper shutdown procedures.

#### Setup and Configuration Files for NOVELL® NETWARE® Agents

#### AUTOEXEC.BAT File

In order for the **GLOBALVISION AGENT** to create SNMP traps and packets to send to the **GLOBALVISION CONSOLE**, one of the two following files needs to be loaded in the AUTOEXEC.BAT file:

- STPIPX.COM Used if the network is running the IPX network protocol.
- STPUPD.COM Used if the network is running the TCP/IP network protocol.

These files create SNMP packets that are sent to the Local GlobalVision Console. If neither of the files are loaded, SNMP packets will not be sent across the network.

These files can be loaded into upper memory in the AUTOEXEC.BAT file. These files should be loaded toward the end of the AUTOEXEC.BAT file.

The AUTOEXEC.BAT file has to reside at the root directory of the computer board.

The following is a sample AUTOEXEC.BAT file, which has the STPIPX.COM file being loaded. The bolded lines were added or modified.

```
@ECHO OFF
PROMPT $P$G
SET TEMP=C:\TEMP
LH /L:0;1,24800 /S C:\CUBIX\BC-UTIL\DOS\MOUSE
ECHO.
PATH=C:\NET;C:\WINDOWS;C:\DOS;c:\nwclient
LH /L:0 SMARTDRV
C:
LH /L:0;1,29952 /S C:\NET\net initialize
LH /L:1,27680 C:\NET\nwlink
LH /L:0;1,15056 /S c:\net\net start
c:\net\net use
lh lsl
LH /L:1,52656 dc21x4
lh vlm
lh c:\nwclient\stpipx
```

NOTE! The above example is for a network using IPX. For a network using TCP/IP, replace the bolded line with the following line: 1h c: \nwclient\STPUDP.COM

#### CONFIG.SYS File

During the installation of the **IES RESPONDER**, the installation program modifies the CONFIG.SYS file. The installation program adds a line which calls the CBXIES.SYS file and sets the interrupt value for the **IES RESPONDER**.

The CBXIES.SYS file is used to create the packets of information that the **IES RESPONDER** sends out to the Local GlobalVision Console. The interrupt value that follows the CBXIES.SYS file is the same value that is entered during the installation of the **IES RESPONDER**.

The CONFIG.SYS file has to reside at the root directory of the computer board.

The following is a sample CONFIG.SYS file, using a value of 15 for the interrupt. The bolded lines were added or modified.

NOTE! If the interrupt value needs to be changed from 15 to 10, just change the value at the end of the bolded line in the CONFIG.SYS file.

#### DEVICE=CBXIES.SYS -i=15

DEVICE=C:\DOS\himem.sys DEVICE=C:\DOS\EMM386.EXE NOEMS Buffers=15,0 Files=40 Dos=UMB lastdrive=Z fcbs=4,0 shell=c:\dos\command.com /p /e:1024 DEVICEHIGH /L:1,9072 =C:\DOS\ANSI.SYS Dos=high Stacks=9,256 DEVICE=C:\NET\IFSHLP.SYS DEVICE = CBXMOUSE.SYS

#### **CBXNODE.INI File**

During the installation of the **GLOBALVISION AGENT** and **IES RESPONDER**, the SETUP.EXE program modifies the CBXNODE.INI file. The CBXNODE.INI file helps set up various parameters about the computer board's identity. This information is sent in the SNMP and IES packets which are sent out by the **GLOBALVISION AGENT** and **IES RESPONDER**, respectively. The installation program creates the following section:

CUBIX NODE AGENT Holds values of Trap Interval, Data Highway Address, and Group Number. These values were obtained during the installation procedure.

The CBXNODE.INI file resides at the sub-directory which contains the network client files.

Any values in this file can be changed. Be careful when editing this file. Radical changes can have dire consequences. This file is case sensitive.

The following is a sample CBXNODE.INI file. The bolded lines were added or modified.

```
Cubix Node Agent
TrapInterval = 30
DataHighwayAddress = 4
Group = 1
DeviceType = BC
```

#### **TRAPTARG.CFG** File

During the installation of the **GLOBALVISION AGENT** and **IES RESPONDER**, the SETUP.EXE program modifies the TRAPTARG.CFG file. The TRAPTARG.CFG file helps define the network protocol and address the Local GlobalVision Console is using. This information is used by the **GLOBALVISION AGENT** and **IES RESPONDER** in determining what type of network packets to create and where to send them.

The TRAPTARG.CFG file resides at the sub-directory which contains the network client files.

Any values in this file can be changed. Be careful when editing this file. Radical changes can have dire consequences. This file is case sensitive.

The following is a sample TRAPTARG.CFG file for a network using the IPX network protocol. The bolded lines were added or modified.

# traptarg.cfg # # SNMP Agent Trap Target (Destination) Configuration # # File format: # # Protocol <name> # Specifies the beginning of a list of names or # addresses of managers to which to send traps using the # protocol specified by <name> if that protocol is # registered as a service provider to the SNMP Agent. # # All destinations must be preceded by white space # Each destination must be listed on a separate line. # # The Protocol keyword, left justified, signifies the # start of a new protocol section. # # Comments are preceded by the hash mark, and proceed # to the end of the line. # 

Protocol IPX

# In this section you can put SNMP managers that want to receive # traps from the local node over IPX. Managers can be identified # by NetWare service name (a NetWare filer server name, for example) # or by IPX address

#### 0000000:0020940811E2

Protocol UPD

# In this section you can put SNMP managers that want to receive # traps from the local node over UPD. Use either IP address or # name. By default, the local mode sends traps at least to itself

The following is a sample TRAPTARG.CFG file for a network using the TCP/IP network protocol. The bolded lines were added or modified.

# traptarg.cfg # SNMP Agent Trap Target (Destination) Configuration # # File format: # # Protocol <name> # Specifies the beginning of a list of names or # addresses of managers to which to send traps using the # protocol specified by <name> if that protocol is # registered as a service provider to the SNMP Agent. # All destinations must be preceded by white space # Each destination must be listed on a separate line. # The Protocol keyword, left justified, signifies the # start of a new protocol section. # # Comments are preceded by the hash mark, and proceed # to the end of the line. # 

Protocol IPX

# In this section you can put SNMP managers that want to receive # traps from the local node over IPX. Managers can be identified # by NetWare service name (a NetWare filer server name, for example) # or by IPX address

Protocol UPD

# In this section you can put SNMP managers that want to receive # traps from the local node over UPD. Use either IP address or # name. By default, the local mode sends traps at least to itself

100.100.100.115

#### Section 2 – Status Indicators

This appendix is a complete guide to all the status indicators of the different levels of the GlobalVision hierarchical tree.

Each device in the GlobalVision hierarchical tree of the GLOBAL VIEW window has an associated status. This status is reflected by the color of the LED illustrated in the GlobalVision hierarchical tree with each device and the LEDs on the information tabs. The status indicates different things for the different devices, and the different levels of the tree. For some devices and levels, the status only indicates that a device or level further down the tree has a fault. The status LEDs allow for easy navigation of the tree to the source of the problem. This appendix is divided into the following sections: Cubix Enterprise, GlobalVision Console level, IES Level and BC or Processor level.

For consistency throughout this appendix, the term "computer board" will be used to reference a single processor BC Series board and a dual processor DP Series board set,. Unless specified, the installation and operation instructions and configurations options apply to both series of boards.

## **Cubix Enterprise Level**

The top level of the GlobalVision hierarchical tree is the CUBIX ENTERPRISE level, which consists of all equipment being monitored by GlobalVision. The status indicators for the CUBIX ENTERPRISE level reflect the status of equipment further down the hierarchical tree. The CUBIX ENTERPRISE level of the GlobalVision hierarchical tree has one information tab with status indicators: Details.

# **Details Tab**

The DETAILS tab of the CUBIX ENTERPRISE level of the GlobalVision hierarchical tree has one status indicator: **Status.** 

### Status

Please use the following table as a reference of available values for the STATUS status indicator for the DETAILS tab for the CUBIX ENTERPRISE level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Normal	No faults at the present time.
0	Red	GlobalVision Console Fault	At least one fault condition exists further down the tree.

# **GlobalVision Console Level**

The second level of the GlobalVision hierarchical tree is the LOCAL or REMOTE GLOBALVISION CONSOLE level, which consists of all equipment being monitored by this **GLOBALVISION CONSOLE**. The status indicators for the GLOBALVISION CONSOLE level reflect the status of equipment further down the hierarchical tree. The status indicators are the same for a Local and Remote GlobalVision Console. The GLOBALVISION CONSOLE level of the GlobalVision hierarchical tree has one information tab with status indicators: Details.

# **Details Tab**

The DETAILS tab of the GLOBALVISION CONSOLE level of the GlobalVision hierarchical tree has one status indicator: Status.

## Status

Please use the following table as a reference of available values for the STATUS status indicator for the DETAILS tab for the GLOBALVISION CONSOLE level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Normal	No faults at the present time.
0	Red	IES Fault	At least one fault condition exists further down the tree.

# IES Level

The third level of the GlobalVision hierarchical tree contains the IES level, which consists of a Cubix enclosure for computer boards listed underneath a LOCAL GLOBALVISION CONSOLE. The status indicators for the IES level reflect the status of equipment further down the hierarchical tree, or may reflect an environmental error occurring to the chassis itself. The status indicators are the same for a LOCAL and REMOTE IES. The IES level of the GlobalVision hierarchical tree has two information tabs with status indicators: Details and Environment.

# **Details Tab**

The DETAILS tab of the IESlevel of the GlobalVision hierarchical tree has one status indicator: Status.

Please use the following table as a reference of available values for the STATUS status indicator for the DETAILS tab for the IES level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Normal	No faults at the present time.
0	Red	BC Fault	At least one computer board is not responding to IES queries.
		Subsystem Environmental Fault	At least one environmental fault for the chassis has occurred. This could be a power supply, fan, temperature, fuse problem, etc.

## **Environment Tab**

The ENVIRONMENT tab of the IES level of the GlobalVision hierarchical tree has twelve status indicators: Temperature, Voltage (+12, +5, -12, -5), Power Supply (#1, #2, for DENSITY #3), Fan (#1, #2, for DENSITY #3), Shared Keyboard Fuse, Shared Floppy Fuse, and Slot Fuse/Circuit Breakers.

### Temperature

Please use the following table as a reference of available values for the TEMPERATURE status indicator for the ENVIRONMENT tab for the IES level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Normal	No faults at the present time.
0	Red	Temperature Exceeded Threshold	The temperature of the chassis has exceeded the temperature threshold.

## Voltage (+12, +5, -12, -5)

Please use the following table as a reference of available values for the +12 VOLTAGE, +5 VOLTAGE, -12 VOLTAGE, and -5 VOLTAGE status indicators for the ENVIRONMENT tab for the IES level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Normal	No faults at the present time.
0	Red	"v" Voltage Outside Normal Range	The "v" voltage for the chassis fell outside its normal range.

# Power Supply (#1, #2, for DENSITY #3)

Please use the following table as a reference of available values for the POWER SUPPLY #1 and POWER SUPPLY #2 status indicators for the ENVIRONMENT tab for the CHASSIS (PROCESSOR) level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Operational	No faults at the present time.
		Not Monitored	The power supply is not monitored by the IES Module.
9	Red	Inoperative	The power supply is not outputting power to the chassis for any of the following reasons: power supply ON/OFF switch is OFF, power supply not properly seated, power supply cord not properly connected, etc.

# Fan (#1, #2, for DENSITY #3)

Please use the following table as a reference of available values for the FAN #1 and FAN #2 status indicators for the ENVIRONMENT tab for the IES level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Operational Not Monitored	No faults at the present time. The fan is not monitored by the IES Module.
•	Red	Inoperative	The fan is not working for any of the following reasons: a connection is loose, an object is blocking the fan, etc.

# Shared Keyboard Fuse

Please use the following table as a reference of available values for the SHARED KEYBOARD FUSE status indicator for the ENVIRONMENT tab for the IES level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Operational	No faults at the present time.
		Not Monitored	The keyboard fuse is not monitored by the IES Module.
٥	Red	Inoperative	The keyboard fuse for the chassis has failed.

## Shared Floppy Fuse

Please use the following table as a reference of available values for the SHARED FLOPPY FUSE status indicator for the ENVIRONMENT tab for the IES level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Operational Not Monitored	No faults at the present time. The floppy drive fuse is not monitored by the IES Module.
0	Red	Inoperative	The floppy drive fuse for the chassis has failed.

# **Slot Fuses/Circuit Breakers**

Please use the following table as a reference of available values for the SLOT FUSES/CIRCUIT BREAKERS status indicator for the ENVIRONMENT tab for the IES level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Operational Not Monitored	No faults at the present time. The slot fuses are not monitored by the IES Module.
0	Red	Inoperative	At least one slot in at least one of the groups in the chassis is not receiving power.

### **BC or Processor Level**

The fourth level of the GlobalVision hierarchical tree contains the BC level, which consists of the computer boards. The status indicators for the BC level reflect the status of the computer board. The status indicators are the same for computer boards in a Local and Remote Chassis (BC or Processor). The BC level of the GlobalVision hierarchical tree has one information tab with status indicators: Details. The level also has a GlobalVision hierarchical tree icon indicator.

### **Details Tab**

The DETAILS tab of the PROCESSOR level of the GlobalVision hierarchical tree has two status indicators: Status and GlobalVision Agent.

## Status

Please use the following table as a reference of available values for the STATUS status indicator for the DETAILS tab for the PROCESSOR level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Active	No faults at the present time.
٥	Red	Inactive	Computer board is not responding to IES queries.
0	Yellow	In Reset	Computer board is currently resetting.
9	Black	Not Attached Group Power Off	There is no computer board currently attached to the group. Indicates the power is OFF to the group.
0	Gray	Offline	Computer board is in an Offline state.

# **GlobalVision Agent Status**

Please use the following table as a reference of available values for the GLOBALVISION AGENT STATUS status indicator for the DETAILS tab for the PROCESSOR level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
0	Green	Active	No faults at the present time.
0	Red	Inactive	Computer board is not responding to GlobalVision SNMP queries. Also indicates the power is OFF to the group.
0	Cyan	In Use	Computer board is currently has a user logged in.

# **GlobalVision Hierarchical Tree Icon**

Please use the following table as a reference of available values for the ICON status indicator for the for the BC level of the GlobalVision hierarchical tree.

INDICATOR	COLOR	VALUES	DESCRIPTION
	Green	Active	No faults at the present time.
	Clear	Not Attached	There is no computer board currently attached to the group.
	Cyan	In Use	Computer board is currently has a user logged in.

### Section 3 – Customer Service Information

### **CUSTOMER SERVICE INFORMATION**

For Customer Service Information: 1-800-829-0551

Customer Service available from:

5:00 a.m. to 5:00 p.m. PST Monday through Friday Also, from 8:00 a.m. to 4 p.m. PST on Saturday Closed holidays and holiday weekends

Use the Cubix Web site for trouble-shooting aids and for access to the latest information on Cubix products.

Customer Service Web site: http://www.cubix.com/support

Customer Service Email address: <a href="mailto:customerservice@cubix.com">customerservice@cubix.com</a>