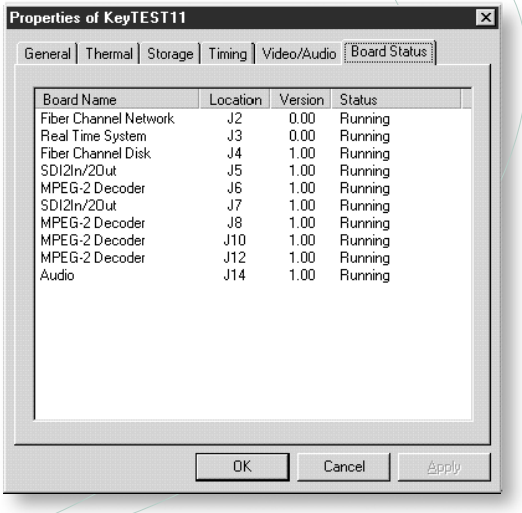
GRASS VALLEY GROUP

NETCENTRAL ENTERPRISE

REMOTE MONITORING SOFTWARE FOR PROFILE XP

PRODUCT DATA SHEET



Sample NetCentral screen shows current status of Profile XP hardware including location and software version.

KEY FEATURES

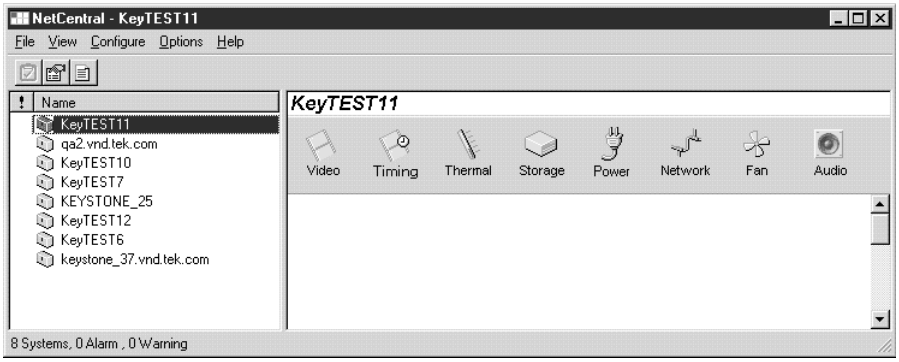
- Provides continuous status monitoring of all major XP subsystems
- Alerts operators to imminent problems not just when they become critical
- Monitors all hardware modules with with "heartbeat" checkup
- Monitors all Profile XP servers on a network anywhere around the world
- Local version standard on all Profile XPs (NetCentral Lite)
- Uses standard SNMP protocols
- Selectable action after alarms including email and paging via internet
- Lowers total cost of ownership by reducing maintenance costs

Addressing the Total Cost of Ownership

Disk based servers have dramatically lowered the maintenance cost of a facility, especially when compared to VTRs. Now the Profile XP Media Platform has taken another big step in lowering the total cost of ownership with the NetCentral Remote Monitoring Software. NetCentral provides facility engineers the ability to monitor the status and condition of all their servers from one central location, no matter where in the world they may be located.

REMOTE MONITORING

NetCentral main screen shows all of the Profile XP systems being monitored with the sub-systems of the selected unit being displayed on the right. (KeyTEST11). This panel shows any abnormal status information that may be detected.



NetCentral Enterprise and NetCentral Lite

NetCentral Lite is a standard feature of all Profile XP systems. It offers the basic functionality of NetCentral Enterprise, but only runs on the XP's own Windows NT platform to monitor only itself. A software upgrade to NetCentral Enterprise provides the ability to monitor all Profiles XPs on a network from a remote NT workstation.

NetCentral consists of a client and a server. The server runs on the XP while the client runs on a Windows NT workstation. From any workstation, you can monitor the condition of any Profile XP Media Platform on the network. NetCentral categorizes status information detected on the Profile XP, depending on its severity, as either an alarm, a warning or simply information.

Alarms

Whenever a failure occurs that threatens reliable on-air operation, the affected Profile XP subsystem sends messages to the NetCentral client using industry standard SNMP protocol. When an alarm is generated, NetCentral can be programmed to take specific actions such as send an e-mail to an internet mail server, call a technician via pager, or run a user specified program. E-mail and paging require a customer supplied internet mail server.

Warnings

A warning message is one that does not require immediate action but informs the user that some preventative action may be required. For instance, the system's internal temperature may be rising due to a fan failure or poor cooling in the equipment racks. Alternatively, the disk array may report excessive retries on data retrieval. In these cases, although the Profile XP system is still functional, it is not operating at its optimal performance. NetCentral alerts maintenance staff to investigate such warnings.

Informational

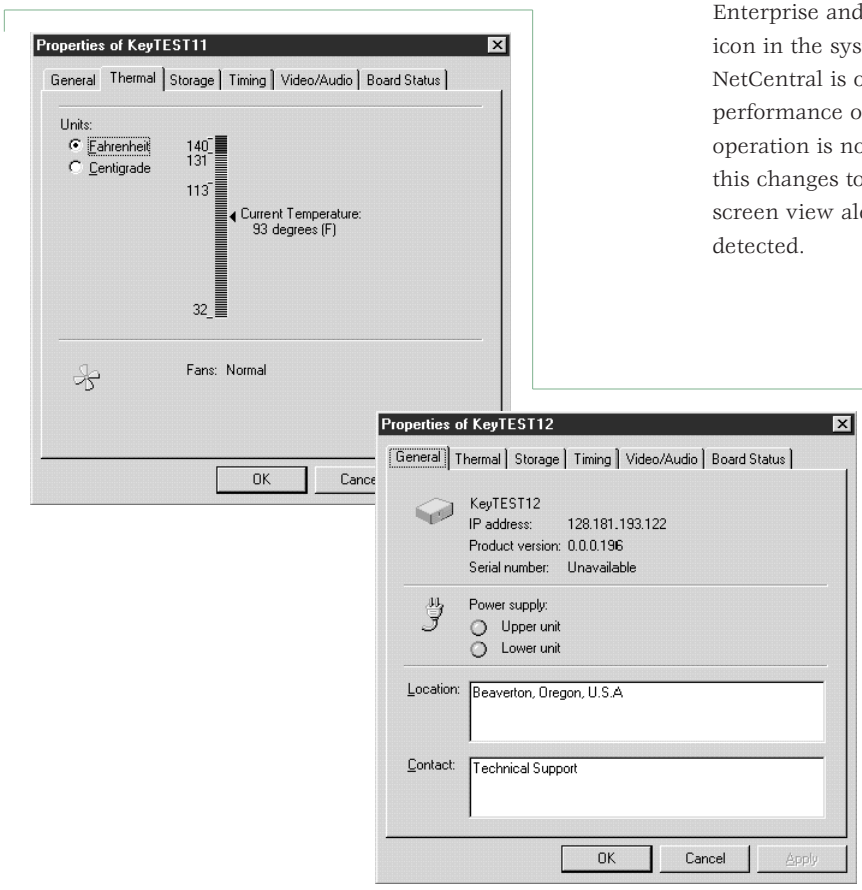
Provides general information about the server such as configuration, software version levels, etc.

System logs are available to NetCentral and can be viewed from a remote location. These logs can be saved to a file and sent to the Grass Valley Support Center for analysis by a Profile support specialist.

Users are provided access to set or reset warning and alarm conditions in accordance with local conditions and preferences. Profile XP provides several GPI outputs controlled by NetCentral. These are triggered in event of warning or alarms on the system. In addition it is possible to localize operator messages displayed by NetCentral for local languages. Contact your local Grass Valley representative for further information.

NetCentral Monitor

The NetCentral Monitor (included in both NetCentral Enterprise and NetCentral Lite) runs on the XP as a small icon in the system tray. A revolving indicator shows that NetCentral is on watch actively monitoring the status and performance of the system. When the icon monitor is green, operation is normal. However, in event of a warning or fault, this changes to red and restores the application to a full screen view alerting the operator to the problem that was detected.



DETAILED INFORMATION

Clicking on any icon opens a second panel providing detailed information. The two dialog boxes show the thermal characteristics of the system and general information about the system including power supply status. The specific location of the system as well as local contact information for the facility engineer can also be entered for maintenance technicians that may be monitoring the system remotely.

SPECIFICATIONS

Profile Requirements

- Any PVS1000 or PVS2000 system
- Remote monitoring requires network connection and is only available with the NetCentral Enterprise version. If connection to a mail server is desired, users should employ a gateway to firewall the Profile control network from other IT network traffic.

NetCentral Setup

- Separate settings available for alarms and warnings
- Beep
- Trigger a GPI
- E-mail
- Play audio file (.wav)
- Run program (.exe)

NetCentral Lite

- Standard on all Profile XP Systems
- Includes basic functionality as described
- Enterprise version may include additional features

Profile XP Monitor Areas

- General: name, IP Address, Software version, Power Supply status
- Video/Audio: for each input – sync/async, video present, VITC present, embedded audio present
- Format/Reference: NTSC/PAL, VITC/LTC present, Genlock
- Thermal: temperature gauge, current, warning level, critical level
- Storage System: RAID status, capacity and space remaining
- Board Status: name, location, version, status
- Fans: status

Available Logs

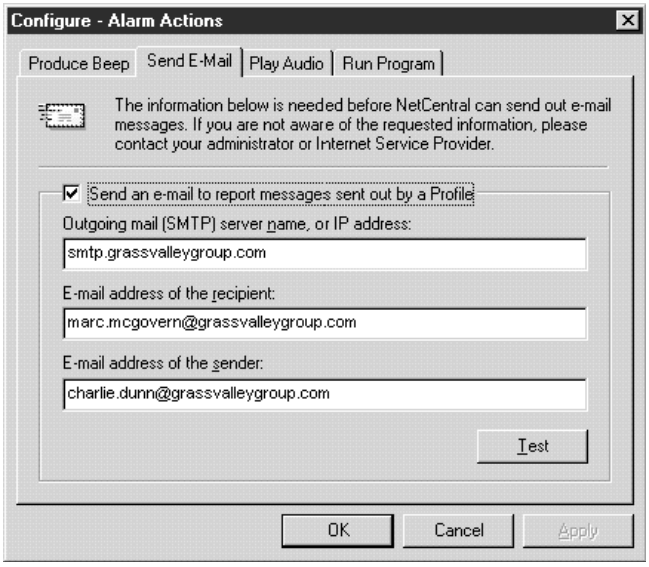
- Engineering Log: displays boot-up information, logs all system activity
- NetCentral Log: messages to/from NetCentral Client
- Port TimeLine Control: activity on each RS-422 port
- Transfer Log: network activity
- VDRPanel: activity on each channel
- Profile Protocol Log: activity via Profile protocol

Ordering Information

PART NUMBER	DESCRIPTION	LICENSES
NETCEN	NetCentral Enterprise Software	Single License. Distributed on CD with User Manual
NETCENST	NetCentral Enterprise Software	Site license

License Requirements

- One License is required for each Profile XP
- One license allows NetCentral to be run on one Profile and one remote workstation



ERROR NOTIFICATION

In the event of an error, several actions can be selected. The user specifies these actions in the configuration screen. The system can beep, play an audio file, run a user defined program, and the most common, send an e-mail or ring a pager. E-mail systems that provide rule-based processing of incoming mail allow messages to be directed into separate folders for each of a facilities' servers. This provides a convenient way to maintain maintenance records for each of the servers in a facility or to maintain records in a central remote location.

Warranty

Products offered by Grass Valley Group are manufactured to provide the highest level of reliability and performance. Grass Valley Group warrants these products against defects in materials and workmanship in accordance with the warranty statement applicable with each product.

Standard product warranty is one year from the date of installation or 15 months from the date of shipment; whichever is earlier. Warranty coverage includes:

- Hardware support with advance exchange of parts shipped next business day
- Software support includes automatic shipment of software maintenance releases
- After hours emergency phone support

Complimentary Services

Technical phone support via our 1-800-547-8949 number during regular business hours and technical e-mail support. In addition to our call center, we offer on-line technical resources and parts ordering via our web site at www.grassvalleygroup.com/support.

Value Added Services[1]

- **SmoothStart[SM] and On-Site Installation Support Services –** Critical startup services to get you going. These services include pre-installation planning, on-site checkout, on-site overview training as well as customized networking and system support services
- **Comprehensive Service Contracts –** Up to 5 years beyond initial warranty which includes advanced exchange of parts shipped next business day, proactive software subscription support, after hours emergency phone support and discounts on our training classes and field support operations
- **On-Site or Factory Training –** Operations, advanced operations and technical/maintenance training
- **Spares Kits –** For mission-critical applications, our parts kits ensure maximum on-air time

1) *Some value-added services are available for specific products only. Please contact your sales representative for details by product.*

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