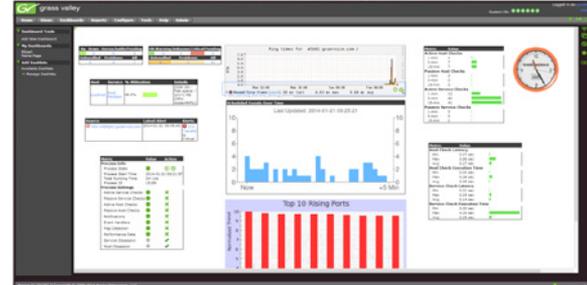


GV GUARDIAN

FAQ

1 What is GV GUARDIAN?

GV GUARDIAN from Grass Valley is a standards-based, preventative, remote monitoring tool that lets broadcast and IT engineers quickly diagnose and resolve issues with media systems. It enables users to predict problems before they happen, to understand issues before they become problems, and to resolve problems as fast as possible. In addition to SNMP, it also adds RMON, Syslog, and WMI for extreme flexibility and is tailored to make monitoring Grass Valley products easy.



2 How does GV GUARDIAN compare to NetCentral?

NetCentral, Grass Valley's earlier monitoring product, was a custom-developed windows application that required a special "device provider" for every monitored device. This could lead to complexity and significant cost. GV GUARDIAN has a web-based user interface and requires no additional software to monitor most systems. This makes it cost-effective. GV GUARDIAN is also built on top of an open-source tool that has been well accepted in the IT industry. This makes it easy to use, very flexible, and easy to extend with a wide array of plugins and extensions.

3 What is the relationship between GV GUARDIAN and Nagios XI?

GV GUARDIAN is a superset of Nagios XI. It uses Nagios XI as a base platform but adds a variety of functionality aimed specifically at making monitoring Grass Valley-based broadcast systems easy, including products from third parties (see #9). Nagios is an open source computer system monitoring, network monitoring, and infrastructure monitoring software application in widespread use designed for various IT environments.

4 What makes GV GUARDIAN unique compared to Nagios XI?

GV GUARDIAN adds significant value through its spreadsheet-based configuration uploader, a number of Grass Valley-specific configuration wizards, predefined profiles for Grass Valley products that make configuring a large number of devices easy, automated report generation, a very easy-to-use data center map design tool, and easy-to-use log upload tools for quick and effective transfer of information to the Grass Valley support team.

5 What makes GV GUARDIAN unique compared to other monitoring products?

SNMP has long been established as a basic monitoring mechanism for use across platforms. GV GUARDIAN is a world-class implementation of an SNMP manager. The limitation is that not all products have SNMP, and more importantly when using SNMP, monitoring is limited to only those attributes that the equipment manufacturer chooses via a MIB. GV GUARDIAN is intended to be as flexible as possible and implements this flexibility through inclusion of WMI, Syslog, and RMON in addition to SNMP. Using these additional features it is easy to monitor characteristics of Windows- and UNIX-based systems as well as a network irrespective of whether or not the manufacturer has chosen to expose those characteristics via SNMP. For example, even without SNMP, GV GUARDIAN can monitor any process or service, and any other aspect of a Windows-based system via WMI.

6 What is so important about WMI?

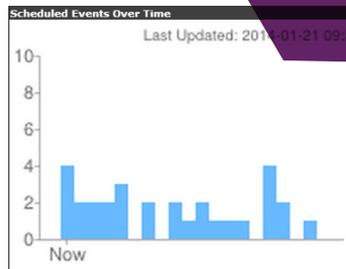
The Windows Management Instrumentation system, or WMI, is a collection of Windows Driver Model extensions that provides an interface through which virtually all aspects of a Windows-based system can deliver information and notifications to an external monitoring application. Using WMI allows Windows-based systems like K2 Summit and GV STRATUS to be comprehensively monitored without complex configuration or setup.

Localhost	Partition	48.9%	23171 MB (48% mode=94%)
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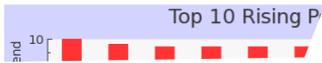
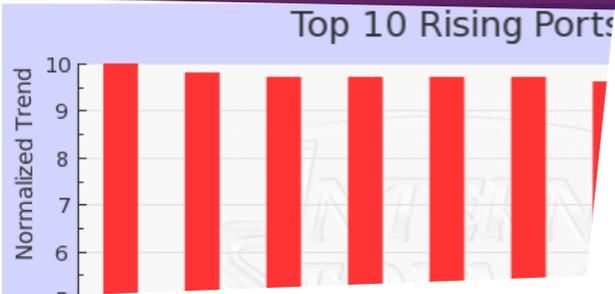
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hillv-mlbftp01.gvservice.com	2014-01-21 08:45:40	FTP Transfer Is Critical

Metric	Value	Action
Process Info		
Process State	●	⊞ ⊞
Process Start Time	2014-01-21 09:21:57	
Total Running Time	3m 14s	
Process ID	15189	
Process Settings		
Active Service Checks	●	✗
Passive Service Checks	●	✗
Active Host Checks	●	✗
Passive Host Checks	●	✗
Notifications	●	✗

0.02 MS MAX 0.08 MS AVG



Now **GV GUARDIAN FAQ**



7 Why does Grass Valley distribute GV GUARDIAN on a Virtual Machine?

Delivering a complete VM with GV GUARDIAN already installed makes initial installation, upgrades, and version updates extremely simple for customers. In the GV GUARDIAN spirit of simplicity, Grass Valley delivers the product in a way that minimizes the effort on the part of the end user.

8 How can GV GUARDIAN be customized to meet individual needs?

GV GUARDIAN includes the ability to create individual accounts and for each user to define custom views and dashboards. It is very easy to create a user-specific environment.

9 Is the application limited to monitoring Grass Valley equipment?

No. GV GUARDIAN will monitor any product that supports SNMP, WMI, or Syslog even if that product is from another manufacturer or is not part of the broadcast or media production and delivery chain.

10 Will Grass Valley support users in monitoring other manufacturer's equipment?

Grass Valley has no control over MIBs or the behavior of products from other manufacturers. However, GV GUARDIAN will be supported in any implementation to the extent that Grass Valley has control over the system. Grass Valley can commission and configure GV GUARDIAN in any environment from small systems to large enterprise implementations.

11 Does the Remote Commissioning Service cover all instances?

It is important to note that labor to accomplish large implementations, or implementations that contain non-Grass Valley hardware and/or software, must be custom quoted through the Grass Valley Professional Services organization. The GV GUARDIAN remote commissioning service covers a single instance of GV GUARDIAN and associated Grass Valley products only.

12 Why does Grass Valley offer and suggest the Remote Commissioning Service?

In a typical Grass Valley system, GV GUARDIAN can be commissioned and configured in several hours. Remote commissioning can save billable travel expenses and can provide commissioning services for a fee significantly below that of an on-site technician's full day rate. This is a new model for commissioning of Grass Valley products and offers another way to make monitoring as cost-effective as possible.

ABOUT GRASS VALLEY

The new Grass Valley keeps broadcasters, content owners, and service providers future-ready as they navigate the changing landscape of television. With the most comprehensive collection of workflow solutions in the industry, Grass Valley delivers end-to-end television production and content distribution workflows that enable the efficiency and flexibility broadcasters need to stay competitive today—while offering technological foresight they need to keep pace with consumers' desires for more content on more devices. Grass Valley, headquartered in Montreal, leverages the collective expertise and depth of the Grass Valley Group and Miranda Technologies, each having been acquired by St. Louis-based

Belden Inc. Belden delivers a comprehensive product portfolio designed to meet the mission-critical network infrastructure needs of industrial, enterprise and broadcast markets. With innovative solutions targeted at reliable and secure transmission of rapidly growing amounts of data, audio, and video needed for today's applications, Belden is at the center of the global transformation to a connected world. For more information visit www.belden.com.

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