

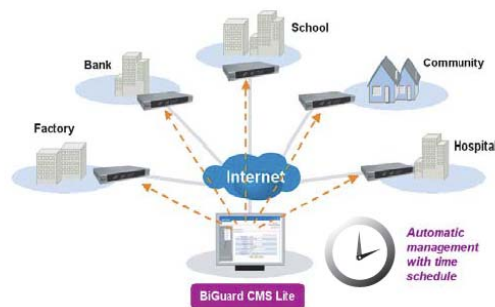
## BiGuard CMS series

### Product models

- BiGuard CMS Lite
- BiGuard CMS Pro

## BiGuard Central Management System

At any time, small offices and SMBs with limited MIS resources require their service vendors to specially take care of their networking needs. The client-server-architecture BiGuard CMS series allows service providers that are capable of system integration or a total network solution to manage their end-customers' network devices remotely via a web-based interface. This management software provides service providers with remote configuration functions, such as data backup and restoration, firmware upgrades, on devices to centrally administer multiple customer devices either on demand or to a pre-defined schedule. The log function in the BiGuard CMS series allows administrators to record device events, and thus to continuously track their status.



## Key Features and Benefits

### Saves maintenance effort

The BiGuard CMS series provides a service provider with a single system to manage all the remote network devices for their end customers to enforce the management policy from a central site. A one-to-many configuration feature in the BiGuard CMS Pro minimizes the effort needed to manage various network devices at dispersed sites when implementing firewall policies, filtering rules and other global objects.

### Highly secured management

All the managed data of a remote network device in the pipeline is encrypted with an HTTPS mechanism to avoid hacker attacks. The remote administrator identification from service providers is qualified and authorized.

### Ease-to-use

A "click-on" web-based interface makes it easy to add devices, upgrade firmware and carry out all other remote configuration functions. It's even easy to install the BiGuard CMS series by using a setup Wizard.

### Grouping device management

The devices can be clustered for group-based remote management instead of one-by-one. In addition, the administrator can choose to display the devices with a tree view or list view.

### Historical reports for analysis

BiGuard CMS series also offers a list of historical reports to allow the administrator to analyze the bandwidth usage, event log statistics, alarm event statistics and firmware upgrade results.

### Automatic management with time schedule

What makes the BiGuard CMS series very convenient is that it allows the administrator to set up the management policies with time scheduling, for example back up data every day, or upgrade firmware at 8pm or after office hours. The policies will be automatically launched according to schedule without requiring an administrator onsite.

### Flexible upgrades

The firmware upgrades of remote network devices can be performed on demand, whenever the administrator thinks it is necessary. BiGuard CMS Pro is available by upgrade from the previous BiGuard CMS Lite without the need to reconfigure existing settings.

### Multiple platform support

Using a Java-based design, the BiGuard CMS series supports hardware platform for Intel-X86-based devices and software platforms such as MS Windows XP, and later MS Windows 2003 server and Linux(\*).

### Real time monitoring and alerts

BiGuard CMS Pro supports centralized event logging and alerting. When an alarm happens, it is able to receive the alert and notify the administrator via an alarm event and send an email alert at the same time. The administrator is able to monitor the status of all devices through BiGuard CMS Pro and take action in real time when abnormal events occur.

## Products and Features

### BiGuard CMS Lite

- Native HTML/HTTPS interface between the remote device and BiGuard CMS
- Data encryption and ID/password authentication for secure management
- No client installation needed
- Web-based user interface
- Supports PostgreSQL
- Firmware upgrade for single/grouped devices on demand or according to a schedule
- Configuration backup for single/grouped devices on demand or at regular time intervals
- Configuration restoration
- Device connectivity checking
- Event logs of BiGuard CMS actions
- Supports BiGuard SSL VPN series security appliances
- Supports different levels of central management :10 · 20 · 30 devices
- Database backup and restoration **note2**
- Ideal for SMBs and service providers

### BiGuard CMS Pro

- XML/HTTPS interface between the remote device and BiGuard CMS
- Data encryption and CMS server authentication by remote device for secure management
- No client installation needed
- Web-based user interface
- Automatic device discovery
- Remote configuration management
- Supports Java Database Connector (JDBC)  
Database Management Systems (DBMSs) - PostgreSQL, MySQL
- Supports database backup and restoration **note2**
- Firmware upgrade for single/grouped devices on demand or according to a schedule
- Configuration backup for single/grouped devices on demand or at regular time intervals
- Configuration restoration
- Device connectivity check
- Device model auto-detection
- Fault management
- Real time monitoring and alerts
- Email alert upon emergency event
- Statistics and log reports
- Security – account management by access level for CMS
- Supports BiGuard SSL VPN series security appliances
- Supports different levels of device management :10 · 30 · 60 and 100; central management for 100 above devices is provided with projectbased version upon request for telcos and ISPs. **note1**
- Ideal for SMBs and service providers

### Applicable Device Model (Firmware ver 3.19 or later)

BiGuard S5 · BiGuard S10 · BiGuard S20 · BiGuard S100N · BiGuard S3000 · BiGuard S6000

### System Requirements

Client Browser: Microsoft IE 6.0 or later

#### Server Requirements:

- CPU: Pentium 4, 2.6GHz or faster
- RAM: 2GB or more

#### Operating Systems:

- Windows XP Pro Edition
- Windows 2003 server
- Linux distributions (\*)

\*Note:

(\*) for future release

1. Available by license upgrade. Additional software installation is required for the desired number of managed devices.
2. Not available in "Evaluation Edition"
3. Specifications in this datasheet are subject to change without prior notice.