## **>** Technical Requirements

The SitePortal® application is available to be licensed and installed on customer servers/computers (or virtual machines), or through the use of our hosted services as software accessed via the Internet, for monitoring and managing remote devices.

#### BANDWIDTH

- 5 Mb/s
- Static IP

#### **POWER**

- Non-Redundant, 480W (80+ BRONZE)
- Optional Redundant 500W (80+SILVER)
- Auto Ranging (100V~240V)

#### SPACE REQUIREMENTS

- 1U or 2U rack server
- C Squared Systems requires access to the server for troubleshooting & upgrades
- For SitePortal<sup>™</sup> hosted by C Squared Systems, access to C Squared supplied static IP is all that is required for the hosted option

About C Squared Systems

#### **REDUNDANCY & BACKUP**

- Scheduled automatic backups are user definable
- Redundant, cloud-based system mirror active servers
- Fail-over procedure automatically redirects users as needed

### **BROWSER COMPATIBILITY**

 Internet Explorer, Mozilla Firefox, or Chrome with Adobe Flash Player installed

#### **CONNECTION TYPES**

- HTML (HTTP, HTTPS)
- SNMP (V1, V2, V2C, V3)
- Telnet (SSH, SFTP)
- Modbus

C Squared Systems is a consulting source and software developer for communication

tools to provide solutions that exceed project scope and client expectations.

professionals and organizations seeking to establish, manage, or expand communication

networks. Our mission is to leverage our in-house expertise with state-of-the-art analysis

- Dial-up Modem
- Northbound SNMP

#### PARTIAL LIST OF COMPATIBLE VENDORS

Haliplex

WaveRider

Westell

Zinwave

- Advanced RF

- Corning

- Dialight

- Ericsson
- GE

- ADRF

- Alvarion

- CSPFalcon

- Emerson
- GST
- Intelibs Alcatel-Lucent IT Watchdogs JDSU Allied-Telesis Kathrein Asentria Kentrox Alcatel-Lucent Linksys APC Motorola MultiTech Aptilo Aviat NEC Axell Panasonic Bard Phoenix Broadband Cellvine Cisco Powerware COMBA PowerWave CommScope Puregas Redline MobileAccess Sierra Simple Com Tools Dali Solid Dell TE Connectivity TEKO DragonWave TRENDnet ELTEK VMware

# All signal, No noise

#### C Squared Systems, LLC

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**SitePortal**® is a web-based Network Management System (NMS) for remote monitoring and management of large-scale, distributed systems and equipment. **SitePortal®** was engineered by C Squared Systems to address the vital need for capturing critical data from a multi-manufacturer environment.

**SitePortal**® is more than just alarming – it's the industry's most robust network management tool and is trusted by the world's biggest network operators and facilities managers.



All signal, No noise

## Advanced Network Management

SitePortal® embraces a standardized approach to network management that closely aligns with the ISO's Telecommunications Management Network (TMN) and FCAPS framework. This architecture allows engineers or technicians responsible for managing the complexities of remote locations or systems to have immediate visibility into the status of their networks and devices through a single, consistent interface with clear notifications, logical layers, and contextual documentation.

SitePortal® was developed by engineers who deal with highly granular remote device management every day. It provides users with a single, intuitive interface for monitoring the critical information needed to keep their networks performing optimally.

#### **FAULT MANAGEMENT**

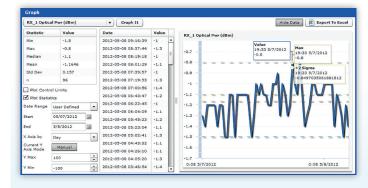
- Alarm History
- Polling & Traps for **Current Alarms**
- Ignored Alarms
- Option to Group Alarms
- Automatic Reports

- Email & SMS Notifications
- Ticketing
- Northbound SNMP (multi-destination)





### **CONFIGURATION**

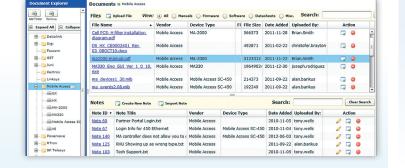


- Device Information
- Properties
- Parameter Change Alarms
- Parameter History

- Auto-Detection of New Modules
- Dynamic Polling of Serial Number & Firmware Versions

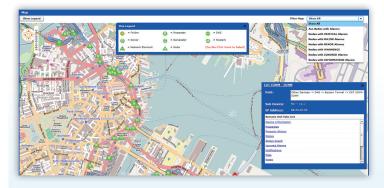
#### **ADMINISTRATION**

- Device Web Interface Launch
- Location, Phone, & Access Info
- Multi-User Web Interface
- Store Notes & Logs **User Administration**
- Document Upload & Association
- Custom Escalation Policy for Ticketing
- Suggestive Search



## Advanced Network Management

### **PERFORMANCE**



- SLA Reporting & Management
- Remote Troubleshooting
- Geographic & Venue Mapping
- GPS Tracking
- Status Graphs
- Status Variable Alarm Thresholds

#### SECURITY

- Secure Protocols (ex. HTTPS, SNMPv3 & SSH)
- Full Administration of User **Permissions & Roles**
- Password Policy Control
- Alarm on **Parameter Changes**
- Controlled Constraints & Tracking of Ignored **Alarms & Disabled Scans**
- Multiple Device **Communications Protocols**

| lotes                   | Lo                   | g Notification: | s File                       | Es Location and  | Access Info | Custom Fields                | Donor | Sites          | Generat  | ors      |      |         |
|-------------------------|----------------------|-----------------|------------------------------|------------------|-------------|------------------------------|-------|----------------|----------|----------|------|---------|
| Run Selected Generators |                      |                 | Stop Selected Generators Set |                  |             | Threshold For Selected 🔀 Sch |       | edule Selected |          |          |      |         |
| Select                  | elect Generator Name |                 | Status Fuel Level            |                  |             | Fuel Level                   |       | Level          | Capacity | Controls |      |         |
|                         |                      | GENERATOR       | Idle                         | 58.16% Threshold | ۵           | 149.93 Gal                   | 58.16 | 87.2           | 149.93   | Start    | Stop | Cockout |
|                         |                      | GENERATOR       | Idle                         | 58.16%           |             | 149.93 Gal                   | 58.16 | 87.2           | 149.93   | Start    | Stop | Cockout |
|                         |                      | GENERATOR       | Idle                         | 58.2% Threshold  | Δ           | 150 Gal                      | 58.2  | 87.3           | 150      | Start    | Stop | Cockou  |
|                         |                      | GENERATOR       | Idle                         | 58.23%           | <u> </u>    | 149.92 Gal                   | 58.23 | 87.3           | 149.92   | Start    | Stop | Cockout |
|                         |                      | GENERATOR       | Idle                         | 58.56% ===       |             | 149.93 Gal                   | 58.56 | 87.8           | 149.93   | Start    | Stop | Cockout |

- SitePortal® can be used for monitoring and managing a wide variety of devices and equipment from major manufacturers – while adding new devices is virtually plug-and-play. Device data is captured by polling, traps, or on-demand scanning via HTML, HTTPS, SSH, SFTP, SNMP, Telnet, Modbus, Dial-up Modem, and other protocols depending on the device. Northbound SNMP forwarding is also supported for higher-level system integration.
  - Routers & Switches
  - Wireless Controllers
  - Authentication Services
  - Ethernet Fiber MUX•
  - Fiber Distributed Antenna Systems
  - Repeaters
  - Batteries & Generators
  - Contact Closures
  - Analog Sensors (ex. temp, humidity, voltage)

- Access & Security
- FAA Tower Lights
- Commercial Power, **Energy, & Demand**
- Microwave
- IP Cameras
- RET Antennas
- HVAC
- Power Plants