



# SITEPORTAL®

Robust remote site monitoring and management solution

**HMI**  
**TECHNICAL SOLUTIONS**  
A **HENKELS & MCCOY** Group Company



## SitePortal® offers you critical features and benefits not available through any other product.

Whether you're managing 5 or 5,000 devices, it's critical to know that your network is functioning properly at all times. HMI Technical Solutions (HMITs) is proud to offer C2 Systems' SitePortal®, a remote web-based network management system (NMS) that's easy to use, scalable, and provides enhanced control for complex networks while delivering cost savings.

### 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 provides immediate, full visibility into the status of networks and devices through a single, consistent interface with clear notifications, logical layers, and contextual documentation. It provides users with a single, intuitive interface for monitoring the critical information needed to keep networks performing optimally.

### Fault Management

Created for network managers, technicians, and engineers, SitePortal® goes substantially beyond standard alarms. SitePortal® is the industry's most robust network management and monitoring tool, trusted by the world's biggest network operators and facilities managers.

- Alarm History
- Option to Group Alarms
- Polling & Traps for Current Alarms
- Automatic Reports
- Ignored Alarms
- Email & SMS Notifications

### Configuration

Advanced configuration management capabilities aid in troubleshooting, allowing users to update remotely and automatically track parameter changes for future audits and trend analysis.

- Device Information
- Dynamic Polling of Serial Number & Firmware Versions
- Properties
- Auto-Detection of New Modules
- Parameter Change Alarms
- Parameter History

### Administration

The ability to assign custom alarm thresholds to key variables provides proactive maintenance to prevent issues and outages. Contextual documents relevant to the monitored devices can be stored for easy accessibility.

- Device Web Interface Launch
- Stores Notes & Logs User Administration
- Location, Phone, & Access Info
- Custom Escalation for Ticketing
- Multi-User Web Interface
- Document Upload & Association

## Performance

See your entire network geographically or at the venue level with robust mapping features.

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

## Security

Depend on SitePortal® with confidence. The system incorporates the highest-level, industry-leading security features. Users have full control over permissions and restrictions, as well.

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

## Routers & Switches

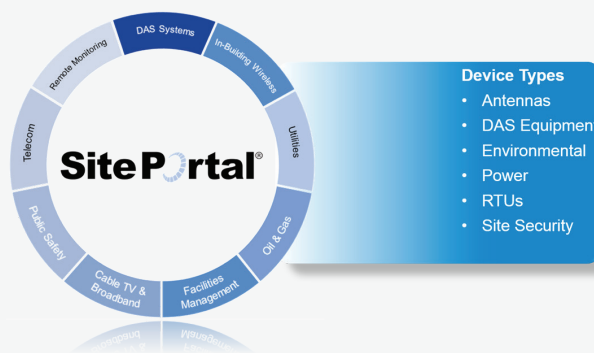
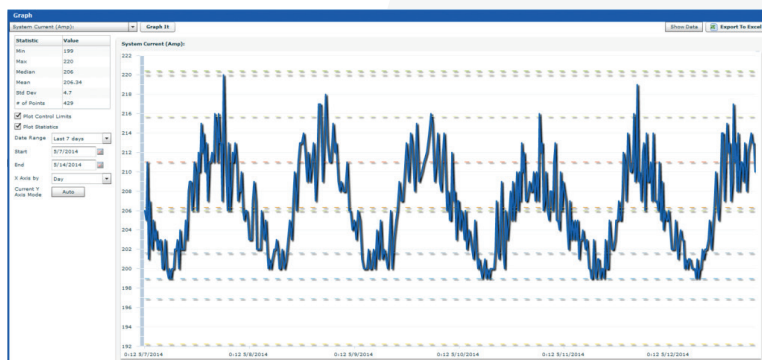
SitePortal® can be used for monitoring and managing a wide variety of devices and equipment from major manufacturers, and adding new devices is virtually plug-and-play. Device data is captured by polling, traps, or on-demand scanning via HTML, HTTPS, SSH, SFTP, SNMP, Telnet, Modbus, Dial-up Modem, and other protocols, depending on the device. Northbound SNMP forwarding is also supported for higher-level system integration.

- Wireless Controllers
- Authentication Services
- Ethernet Fiber MUX
- Fiber Distributed Antenna Systems
- Repeaters
- Batteries & Generators
- Contact Closures
- Access & Security
- FAA Tower Lights
- Microwave
- IP Cameras
- RET Antennas
- Commercial Power, Energy, & Demand
- Analog Sensors, e.g., temp, humidity, voltage

## Monitoring Options

Every network and environment is different — from small buildings with dozens of end-users, to large-scale, multi-site networks with thousands of end-users. SitePortal® meets the needs of unique requirements, and is offered as an enterprise software, as well as software as a service (SaaS). In addition to software, an expert NOC monitoring team is available to provide full system monitoring offsite.

- Enterprise Software
- Software as a Service (SaaS)
- NOC Monitoring



## Technical Requirements

The SitePortal® application is available to be licensed and installed on customer servers/computers, virtual machines, or through the use of 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~140V)

### SPACE REQUIREMENTS

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

### REDUNDANCY & BACKUP

- Scheduled automatic backups are user definable
- Redundant, cloud-based system mirrors 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
- Dial-up Modem
- Northbound SNMP

## PARTIAL LIST OF COMPATIBLE VENDORS

ADRF	Axell	Dali	Haliplex	NEC	Sierra
Advanced RF	Bard	Dell	Intelibs	Panasonic	Simple Com Tools
Alcatel-Lucent	Cellvine	Dialight	IT Watchdogs	Phoenix	TE Connectivity
Alvarion	Cisco	DragonWave	JDSU	Broadband	TEKO
Allied-Telesis	COMBA	ELTEK	Kathrein	Powerware	TRENDnet
Asentria	CommScope	Emerson	Kentrox	Powerwave	VMware
APC	Corning	Ericsson	Linksys	Puregas	Westell
Aptilo	MobileAccess	GE	Motorola	Redline	Zinwave
Aviant	CSP Falcon	GST	MultiTech		

**Find out how HMITS can  
improve management of your network, save  
resources, and lower costs with SitePortal®.  
Contact us today at 484-344-2161.**

HMI Technical Solutions (HMITS) is a multi-discipline, privately held firm that designs, constructs, and maintains the nation's critical utility infrastructure. With advanced knowledge, extensive experience and proven performance, HMITS delivers intelligent solutions that meet clients' goals and timelines. HMITS builds every project and every relationship on a foundation of safety, integrity, and trust.



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[www.hmiservices.com](http://www.hmiservices.com)  
[marketing@hmiservices.com](mailto:marketing@hmiservices.com)

**Contact us at 484-344-2161**

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