



*ComView WS is a wireless, SNMP and Modbus RTU/ TCP-manageable, multi-functional device designed for remote equipment access, control, and alarm monitoring applications that require convenient use of mobile phone for SMS based site access.*

ComView WS integrates a quad-band GSM/GPRS wireless modem, a 4-port intelligent console server, a network firewall router, a 4-logical IP port server, an IPSec VPN/OpenVPN gateway, 4 wet/dry contact sensing inputs, 2 relay-driven outputs, redundant AC & DC power inputs, and a suite of access security and management application software in a standalone hardware device.

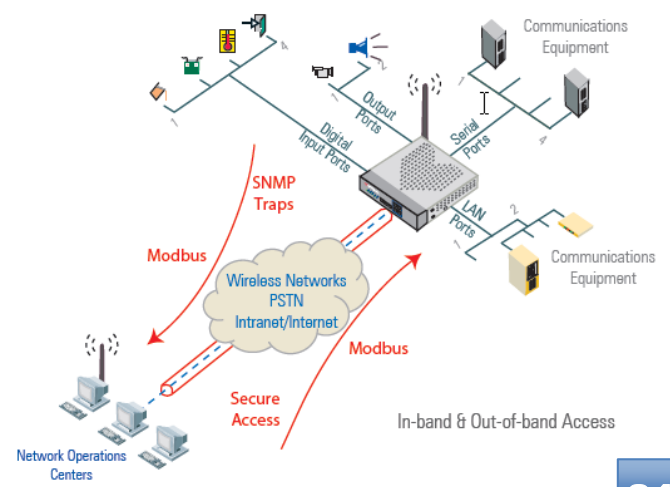
ComView WS is capable of monitoring alarm conditions at its contact inputs, serial ports, and network ports according to user-definable alarm signatures. It can filter, escalate, and automatically deliver alarm messages to multiple locations in different notification formats over wireless and/or landline network connection.

To help facilitate on-the-road alarm resolution and site control & status queries, ComView WS integrates a secure SMS message exchange protocol to let you conveniently interact with the site using just your mobile phone. Furthermore, ComView WS easily lets you manage your equipment from both the IT world - using SNMP and the process-control world - using Modbus RTU/TCP for operational redundancy and effectiveness.

ComView WS enables you to consolidate the proactive management of a wide range of serial and IP network administered equipment as well as a wide range of contact/ voltage-based environmental sensors and controls, communications equipment, power systems, security devices, and other manageable devices. ComView WS is the right solution for your remote equipment administration, management, monitoring, and other services delivery.

## Applications

- Consolidated equipment site administration & monitoring
- Environmental condition monitoring and control
- Remote administration of serial & IP-based equipment
- Equipment access control
- Console server
- Secure out-of-band access
- Real-time alarm monitoring
- SNMP mediation
- Data collection
- Administrative task automation
- IP to serial connectivity
- Standardize equipment access



**24/7**



## Hardware

- Low-power, high-performance 32-bit processor
- 4 serial ports
- 4 contact inputs – wet/dry
- 2 relay-driven outputs
- 2 10/100 Ethernet port, IP addressable
- Quad-band GSM/GPRS wireless modem
- 1 local access serial port
- AC input, 9Vdc universal AC/DC power adapter
- DC input, accepting 20Vdc-60Vdc range, polarity insensitive
- Dimensions: 7.30”(W) x 5.30”(D) x 1.71”(H)
- Weight: under 2 lbs

## Features

- Embedded UNIX operating system
- Perl scripting language
- Task scheduler
- Secure SMS message exchange for user access
- SNMP manageable
- Modbus RTU & TCP manageable
- Mid-level SNMP manager - SNMP traps detection, filtering, and forwarding
- Script-based interactive or passive data capturing for raw data collection or alarm extraction
- Alarm qualifications and classification into critical, major, minor with escalations on thresholds
- Alarm notification:
  - SNMP traps over network
  - ASCII message over TCP socket
  - Email messaging

- SMS messaging
- Map ASCII events to SNMP traps
- Map contact conditions to SNMP traps
- Definable corrective action on alarm event through scripts
- Data capturing and alarm monitoring through logical IP ports
- Transparent access to serial ports
- Direct IP to Serial connection
- On-demand, user programmable virtual LANs
- Online monitoring of incoming data stream
- Online monitoring of contact input conditions
- Self-diagnostics, operational integrity checks, and notification
- Self-extracted downloadable configuration text files and software upgrades
- Customizable software

## Security

- IP Filtering firewall/router
- Network address translation (NAT)
- SMS access with access control list and callback support
- Definable user profiles, access privileges
- Definable port-level access restriction
- Definable user command access restriction
- TACACS+ AAA with access control over individual user commands
- RADIUS
- Definable access time window
- SSH-based access
- IPv4/IPv6 networking
- IPsec VPN/OpenVPN networking

- Secure lock-down mode operation (disable unused network services)
- Online monitoring of user activities at ports
- Definable user inactivity timer to log out user
- Definable user inactivity timer to terminate dialog session
- SSL-enabled Telnet
- sFTP
- Access log
- Audit log via TACACS+
- 3DES, DES, AES, Blowfish, Arcfour
- Public Key, RAS1, RSA, DSA, MD5, SHA1, X11

## Protocols

- Modbus RTU & TCP
- BACnet
- TCP, UDP, ARP, ICMP
- Telnet, SSH(v1&v2), FTP, HTTPs
- SNMP, DHCP, SMS
- IPv4/IPsec, IPv6
- SSL(v2/v3), TLS(v1)

## Ordering Information

ComView WS -64A-128M-G  
(GSM/GPRS Modem Option)

ComView WS -64A-128M-56  
(56K/V.92 Modem Option)

## About CSS

CSS is a developer and manufacturer of hardware and software solutions for critical network infrastructure equipment management. Our solutions enable different industry sectors to remotely monitor and manage network assets reliably, efficiently, and cost effectively.

CSS Inc.  
151 Superior Blvd.  
Unit 13 and 14  
Mississauga, Ontario  
L5T 2L1  
CANADA  
P: +1 905 564 6674  
F: +1 905 564 6679  
E: [Info@csstel.com](mailto:Info@csstel.com)  
W: [www.csstel.com](http://www.csstel.com)

