



# VCL Cyber Security Suite

**VCL-2702, Network Isolation Switch:** Provides manual and automatic isolation of the Local Area Network from Wide Area Network, in an event of a network security breach / cyber-attack or ransomware attack. It helps create Operational Zones or secure parameter zones with the external network, in the event of the detection of a network intrusion / breach in the cyber-security perimeter of the network's demilitarized zone.



**VCL-MX-5010-R-ES:** This is an integrated ruggedized router with enhanced security and advanced features that may be installed to secure critical infrastructure such as utilities, sub-stations, smart-grid distribution systems, airports and railways as well as IT Networks of financial institutions such as banks and corporate networks.



**VCL-5001, Network Traffic Sniffer:** The VCL-5001, Network Traffic Sniffer provides non-intrusive inbound and outbound traffic monitoring analysis and alerts the network administrator of data leaks and potential moles which may be a security threat. Detects data leaks, firewall breaches, network intrusions and cyber-attacks in "real-time". It also provides the user, the data to conduct forensic analysis and trace the attack route which assists the network administrator to identify the points of network vulnerability.



**VCL-2778, Automatic Ethernet Failover Switch:** Provides 1+1 Automatic Ethernet Failover / AB Fallback Protection between an "active" and "standby" terminal equipment; or between "primary" and "standby" Networks / Firewalls / Routers / Switches for enhancing network resilience and providing 99.99% equipment and network availability. The equipment is Fail-Safe. The equipment never becomes a point of failure, even in a power down condition.



**VCL-2243, RTU Firewall IEC -104, IEC 61850 MMS, MODBUS TCP/IP:** VCL-2243 is a high-security, high-reliability, ruggedized, failsafe transparent RTU Firewall that is designed to be installed between the RTU and the SCADA server without having to reconfigure any element of the network. VCL-2243 firewall supports IEC 60870-5-104 (IEC 104), IEC 61850 MMS protocol, MODBUS TCP/IP protocol options with extremely advanced features that may be installed to secure and protect RTUs (Remote Terminal Units) in critical infrastructure.





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## VCL-2143: Network-MouseTrap™ an Advanced Honeypot:

An advanced Honeypot and is an essential network security and forensics tool that enables users to detect firewall breaches and unauthorized network intrusions in their network, in near real-time. It provides alerts in real time - including audio and visual alerts – on detection of a network security breach / ransomware attack etc. It finger-prints the credentials of the hostile entity who have entered the protected network by maintaining a complete log of their credentials such as IP address, domain and the originating location details of the intruder along with providing a trace-route of the intrusion.



**VCL-2457, Smart Rack Control Unit:** Compact size, DIN rail mount unit provides monitoring of the health of the telecom racks, alarms including Fan Control Unit for fan management and fan failure alarms for maintaining ambient temperature, 6 additional binary inputs for sensing dry contact relays (open loop / closed loop status) I/Os to monitor, smoke alarm, high temperature alarm, water-logging alarm, Equipment failure alarm etc. May be fully integrated with VCL-UNMS, Centralized Network Management System (NMS) for monitoring the health of multiple racks in the network, from single central location.

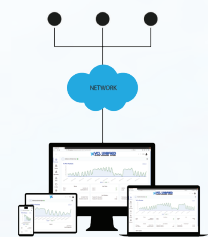


**VCL-3048, NTP Time Server:** This is a compact NTP Server that is directly locked to a GPS / GNSS reference to provide time synchronization to private networks such Electric Sub-Stations, Power Distribution and Transmission companies, Oil and Gas Utilities, that are required to maintain a complete isolation from public networks for security reasons.



**VCL-NAS:** Network Access Storage for sub-station data storage and on-location / off-location critical data back-up.

**UNMS (Universal NMS):** All these above listed elements can be monitored from Our (UNMS) Universal NMS.



Install once access anywhere

