



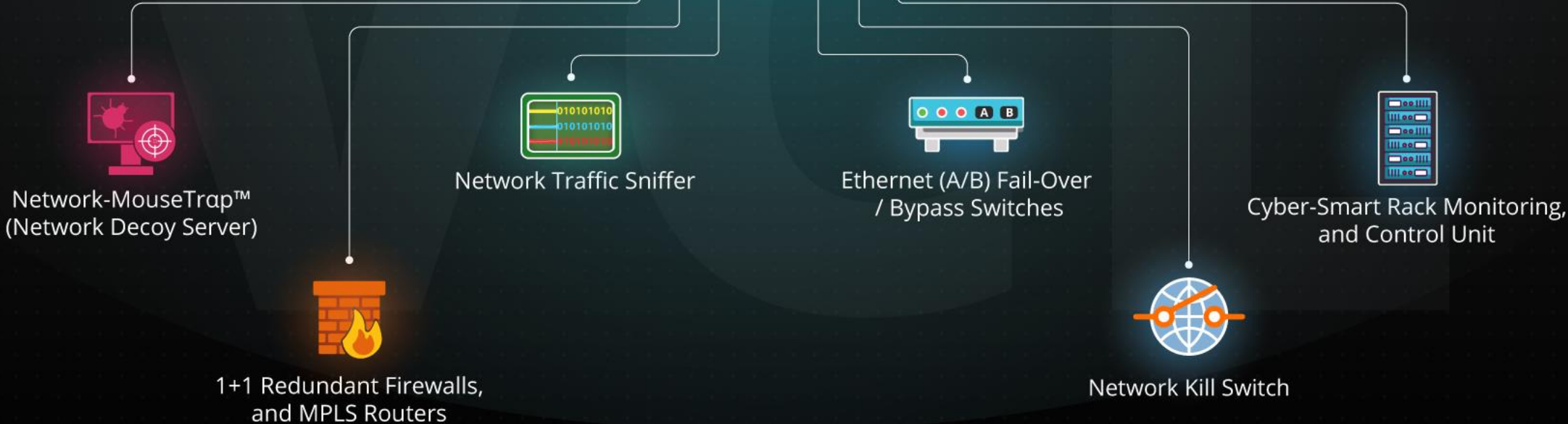
CYBER SECURITY SOLUTIONS



VCL

CYBER SECURITY

SOLUTIONS



VCL UNIFIED NMS

Network Management Software



Centrally Monitor all devices in the **"VCL Cyber Security Suite"**

Logs and reports **firewall breaches, network intrusions** and **cyber-attacks** in "real-time"

Conduct forensic **analysis** and trace the **Attack route** within **seconds**

Identify the points of **Network vulnerability**

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NETWORK-MOUSE TRAP™

Network Decoy Server



- 👁️ Alerts of a Network Intrusion or **Cyber-Attack** in real time with an **audio** and **visual alarm**
- 👁️ Identifies the source of customer network vulnerability by providing **intrusion** or **attack trace** and supporting data for Forensic Analysis
- 👁️ Can be configured to emulate a Network Server, Personal Computer, Router, Switch, SCADA Server, Protection Relay, RTUs, Data Storage Device, ATMs and other devices used by financial organizations etc.



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FIREWALLS

VCL

- High data throughput options designed to secure critical infrastructure such as utilities, **sub-stations**, **smart-grid distribution systems**, **airports** and **railways** networks as well as IT Networks of financial institutions such as banks and corporate networks.
- Purpose built low-cost options to secure end-point terminals such as **ATMs**, **sub-station RTUs** etc.



- 🛡️ VCL-MX-5000 Series **ruggedized MPLS router** equipment with advanced features for the most demanding networks
- 🛡️ Designed to serve as backbones of high data rate networks with support up to **100G** data rates

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MPLS ROUTERS

Next Generation Transmission Equipment

NETWORK TRAFFIC SNIFFER

Beyond the Firewall







- ❖ VCL's "Beyond the Firewall" Cyber Security Solution does not negate or invalidate the role of the "Firewall" in any manner
- ❖ The Firewall still remains the primary element of defence against cyber-attacks. However, cyber-attacks succeed because firewalls get breached
- ❖ "Beyond the Firewall" concept provides the "next line-of-defence" against firewall breaches, resulting in the enhanced network security and resilience against cyber attacks

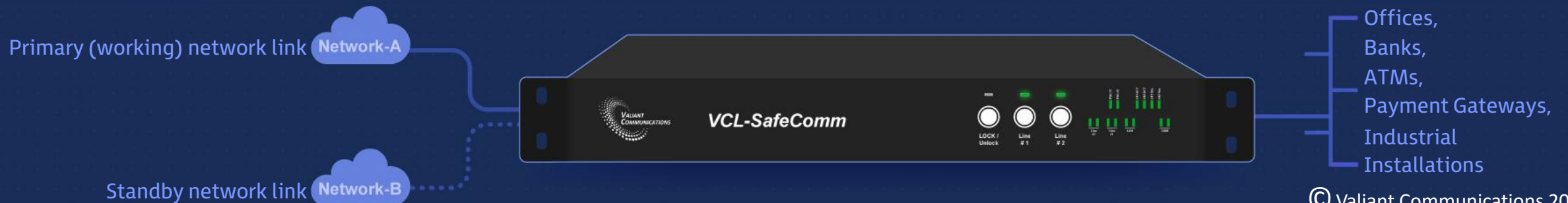


BEYOND
THE FIREWALL

ETHERNET (A/B) FAILOVER SWITCHES

-  **VCL-SafeComm-E** is a family of Ethernet Failover Protection Switches that provide 1+1 Automatic Ethernet Failover / AB Fallback Protection between an "active" and "standby" equipment; or between "main" and "standby" networks
-  Ensures the network remains protected against downtime
-  Available with Fast Ethernet and Gigabit Ethernet interfaces
-  Fail-Safe. Never becomes a point of failure. Automatically reverts to and reconnects to the "primary network" even in the power down condition

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NETWORK KILL SWITCH

- 🔌 VCL-2702 “**Network Kill Switch**” provides the last-line-of-defence in the event of a Network security breach
- 🔌 **Isolates** the network upon receiving information of an ongoing attack to **minimize data theft**, destruction and network exposure
- 🔌 Can be used in conjunction with a **Firewall, Network Sniffer** and multiple Network-MouseTraps™ to automatically initiate a series of defensive actions that would otherwise have been manually planned by the network administrator in the event of a network security breach.

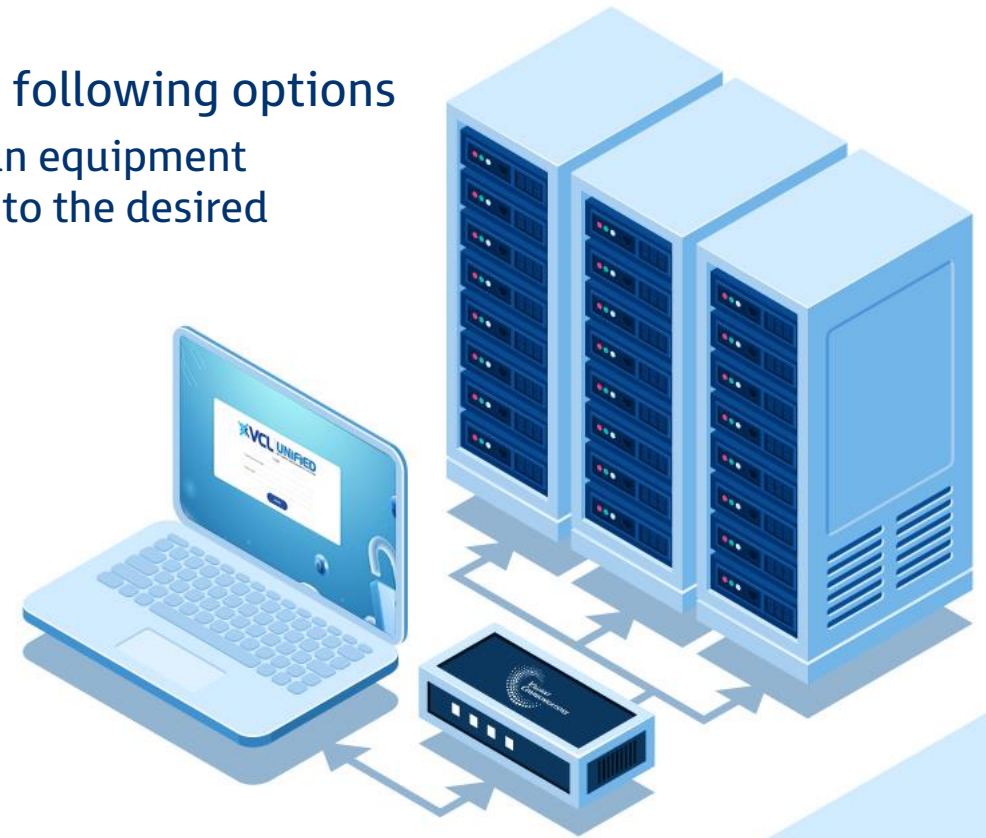


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CYBER SMART RACK

Monitoring and Control unit

- ❏ VCL-2457, Rack Management and Fan Control Unit is designed to convert and transform standard equipment racks into “*Smart-Racks*”
- ❏ The VCL-2457, Smart-Rack Management Unit provides the following options
 - ✓ Designed to monitor and control the ambient temperature of an equipment rack by “switching on” / “switching off” cooling fans according to the desired thermal environment in the equipment rack
 - ✓ Monitors up to 3 temperature zones
 - ✓ Monitors fan voltages
 - ✓ Provides multiple external inputs to connect to a wide range of sensors that may include equipment alarm, rack door open alarm, smoke alarms etc.



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GLOBAL DISTRIBUTION NETWORK





U.K

Valiant Communications (UK) Ltd
Central House Rear Office,
124 High Street, Hampton Hill,
Middlesex TW12 1NS, United Kingdom
E-mail: gb@valiantcom.com



U.S.A.

Valcomm Technologies Inc.
4000 Ponce de Leon Blvd.,
Suite 470, Coral Gables,
FL 33146, U. S. A
E-mail: us@valiantcom.com



INDIA

Valiant Communications Limited
71/1, Shivaji Marg,
New Delhi – 110015
INDIA
E-mail: mail@valiantcom.com



Contact Us

For more details, visit us at our Website
www.valiantcom.com