WTI and Check Point

Console & Power Management for Check Point Security Gateways

The Problem

When a crucial network device crashes and disrupts network communication, tech support personnel need a secure, reliable means to communicate with the disabled device in order to collect crash data from console ports, review configuration parameters and restore network communication. In addition, support techs also need to be able to remotely reboot unresponsive network elements, control power switching and monitor the amount of power being used by devices at remote branch offices and equipment sites. Ideally, this solution should also allow techs to deal with the problem immediately from the NOC, without the delays and expenses of a truck roll or service call.

WTI Out-of-Band Management Solutions

WTI engineers and manufactures secure, out-of-band management solutions for local and global networks. WTI Out-of-Band Rescue™ products are designed to ensure uninterrupted access to network based devices and services by providing a means to quickly and effectively deal with problems at inaccessible equipment sites. When a router, switch, orchestrator or security gateway malfunctions and interrupts network services, WTI Out-of-Band Rescue products provide redundant, out-of-band console access and power switching/reboot control to restore network services in mission critical applications.

During network outages, WTI devices employ secondary Ethernet connections, cellular communication and/or communication via dial-up modem as a means of out-of-band communication, allowing remote access to power control functions and console ports at distant network equipment facilities when normal network communication is down.

In addition to providing control of power reboot/switching and access to console ports, WTI Out-of-Band Management products also allow administrators to set up event alarms and status alarms, to provide automatic notification when signs of trouble are first detected, well before failures actually occur.
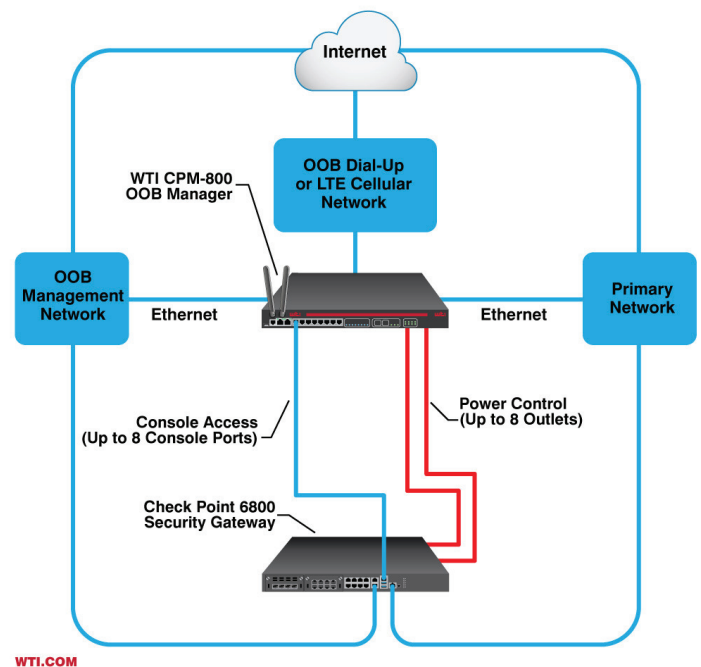
WTI Out-of-Band Rescue™ solutions provide Check Point Security Gateways with :

- In-Band and Out-of-Band Console Access
- SYSLOG and Local Storage of Console I/O
- Power Monitoring and Control
- CLI Access via Cellular LTE Connection
- Console Output Monitoring of User Specified Strings
- In-Band and Out-of-Band Access to DNS Settings
- Troubleshooting and Reconfiguration Access During Device Failures and Network Outages

Check Point Software Technologies and WTI

WTI offers a comprehensive out-of-band management strategy for Check Point Security Gateways, allowing your NOC to deal with equipment outages and resulting interruptions of network communication without the need to dispatch support teams to remote branch offices and data centers.

During network outages, WTI's console server products allow you to establish remote out-of-band connections to console ports on Security Gateways via secure, authenticated communication protocols. If a reboot is needed, WTI Switched PDU products can provide remote out-of-band access to power switching functions at distant equipment sites. WTI also offers a combination console server plus switched PDU unit for applications that require both out-of-band console access and power reboot control.

WTI console servers simplify the process of collecting data from console ports on multiple Check Point Security Gateways scattered across your network. Configuration parameters, event logs, and other system information can be easily captured and saved locally or offsite for analysis, providing administrators with a useful tool for determining the cause of outages and helping to plan strategies to minimize future network service interruptions.

The ability to capture and save console port data is also extremely useful in cases where a broken connection with a branch office would otherwise result in lost data. Out-of-band access to console ports allows the WTI console server to function as a centralized access point, where console data from multiple Security Gateways spread over a large global network can be collected and reviewed by administrators, simplifying the challenge of managing a large number of remote devices while minimizing resource use.

WTI console servers that include dual 10/100/1000 Ethernet ports can provide secure access to advanced DNS functions when primary and/or secondary ISP connections are switched or disconnected. WTI's Dual Ethernet console servers allow you to remotely configure primary and secondary DNS settings and set up IP tables to maximize availability of Security Gateways during network outages, ensuring seamless transfers between primary and secondary ISPs.

Application Example 1

Problem:

Provide secure, authenticated access to configuration parameters on console ports on Check Point Security Gateways during outages.
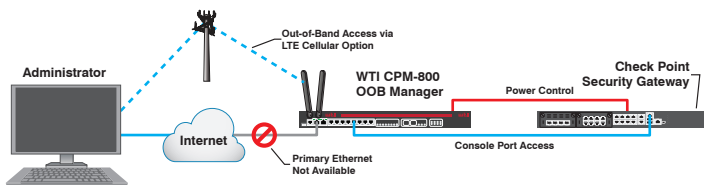
Answer:

WTI console servers with Dual GigE Ethernet ports ensure secure console port connections via primary and secondary Ethernet as well as OOB access via optional LTE Cellular or POTS dial-up modem.
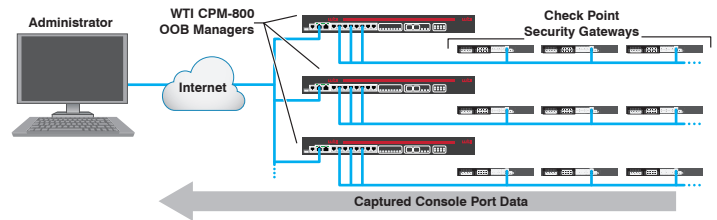
Results:

If the primary in-band network fails, techs can initiate secure SSH connections to Security Gateway console ports via out-of-band, allowing access to configuration parameters and other data used to troubleshoot unresponsive devices and revive network services.

Application Example 2

Problem:

Provide secure access to logged console port data on multiple Check Point Security Gateways.

Captured Console Port Data

Answer:

A single WTI console server can be connected to console ports on up to 40 Check Point Security Gateways.

Results:

Administrators can employ the WTI Out-of-Band Rescue device to securely access console port data from multiple Check Point Security Gateways, and log and store that data locally or on syslog servers. Multiple out-of-band connections to the WTI device allow your NOC team to ensure that crucial data such as error messages, alarms and audit logs, are saved and securely accessible when primary, in-band communication is down.

About WTI

WTI designs and manufactures Secure Out-of-Band Management Solutions for local and globally deployed networks. WTI provides redundant OOB console access and power control to mission critical infrastructure … even when the network is down. WTI products can be purchased factory direct and through various channel partners worldwide. Since 1964, WTI has maintained local in-house manufacturing, engineering and technical support. Learn more at www.wti.com.

About Check Point Software Technologies, Ltd.

Check Point Software Technologies Ltd. (www.checkpoint.com) is a leading provider of cyber security solutions for corporate enterprises and governments across the globe. Check Point solutions protect customers from 5th-generation cyber-attacks with an industry leading catch rate of malware, ransomware and other targeted attacks. Check Point offers a multilevel security architecture with our new Gen V advanced threat prevention that protects networks, cloud and mobile operations against all known attacks combined with the industry's most comprehensive and intuitive single point of control management system.