



Critical Infrastructure Security and Operational Efficiency: Bridging the Gap

As water and wastewater SCADA and ICS networks become more complex and increasingly connected, they become more vulnerable to attacks from malware and outside threats. Securing this critical infrastructure is essential to protecting the safety and economic vitality of local communities. At the same time, operations teams need to be able to maintain operational control and efficiency without IT interference.

Tempered Networks provides a set of sophisticated yet easy-to-use tools to secure process control environments and communication endpoints. The solution gives water and wastewater utilities a simpler approach to security that bridges the gap between IT governance and operational goals. It gives the operations team local control of connectivity and networking needs while IT retains control of cyber security compliance, oversight, and auditing.

Segment and cloak process control and SCADA networks

The Tempered Networks solution provides a private overlay network that enables utilities to segment and isolate connectivity to and between facilities and remote process controllers in any location, using any available network. The solution cloaks all devices within the private overlay network, leaving no external configuration footprint. The solution leverages existing infrastructure to enable connectivity with remote sites and legacy devices over untrusted networks without exposing device communications or requiring complex configurations.

Securely connect and monitor water control stations and remote equipment

By introducing an independent layer of connectivity, security, and trust management, the Tempered Networks solution enables the secure management of ICS—even across a third party's network infrastructure. Utilities can easily connect and monitor upstream production equipment with centralized SCADA and Historian systems. The solution supports any mix of cellular, WiFi, wired Ethernet, or satellite communications networks, including failover to cellular connectivity if the wired network becomes unavailable.

Benefits

- **Extends the network:** IT or operations teams can easily and securely extend networks to remote locations using wired, WiFi, cellular, SatCom, and public cloud networks
- **Centralizes governance:** Facilitates administration and departmental provisioning of private overlay networks
- **Integrates with legacy and modern infrastructure:** Private overlay networks can be easily integrated with any existing IT security and network infrastructure
- **Cloaks critical assets:** Isolates and encrypts communications to cloak ICS and SCADA devices
- **Increases operational integrity and availability:** Facilitates monitoring and predictive maintenance to maximize uptime
- **Enables secure remote access:** Highly constrained remote access can be easily granted and revoked without impacting the underlying network
- **Easy to deploy and maintain:** Intuitive management user interface does not require advanced IT security expertise

Manage third-party access

Providing network access to vendors and contractors can introduce an additional security vulnerability. With the Tempered Networks solution, third-party access can be granted and revoked in just minutes. Access can be constrained to a single, isolated device or a group of devices and for a specific period of time. The solution can also be configured to require user authentication.

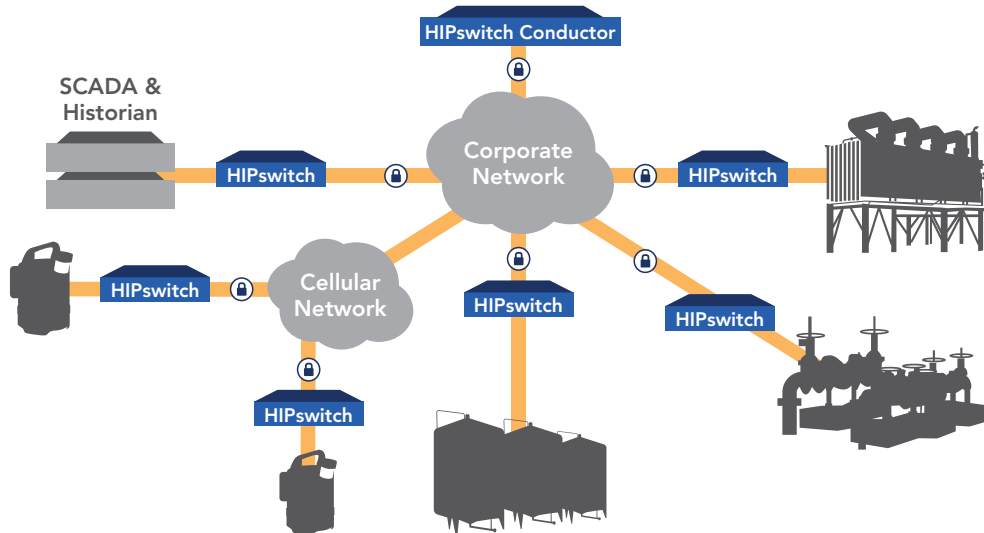


Tempered Networks Product Family

Military-Grade Security

- Secure channels bound to unique RSA 2048-bit cryptographic identities
- Per-peer explicit trust relationships validated up the certificate chain with SHA-256 signatures
- Secure channels protected with Diffie-Hellman exchange, AES-256 encryption, SHA-1 message authentication
- Stateful packet inspection (SPI)
- Denial of service (DoS) mitigation
- Full lifecycle identity management, including instant blacklisting and revocation
- Microsegmentation based on device whitelisting

The Tempered Networks Solution for Water Utilities



The solution provides a secure overlay network among HIPswitch™ appliances that secures connections for SCADA systems between facilities and remote process controllers. The HIPswitch Conductor™ orchestration engine manages configuration, security policies, trust relationships, monitoring and analytics.

Take control of your critical infrastructure with Tempered Networks' proven solution for keeping industrial, commercial, and public sector systems and assets secure and resilient.

To learn more, email sales@temperednetworks.com, call 206.452.5500, or visit temperednetworks.com.