

INFORMATION BRIEF

**Gartner Recognizes
Blue Ridge Networks, Inc.
as Top Provider for CPS
Remote Access Solutions**





Overview



Gartner, a leading global business analyst firm, recently named **Blue Ridge Networks, Inc.** as a recommended provider of Cyber Physical Systems (CPS) secure remote access solutions.

Cyber Physical Systems (CPS) are essentially the intersections where computation, networking, and physical processes converge. Embedded computers and networks monitor and control the physical processes, usually with feedback loops where physical processes affect computations and vice versa. Gartner analysts highlight that CPS involves transdisciplinary approaches, merging the cyber world with the physical world to build a highly interconnected and intelligent system capable of responding in real time to changing conditions. These systems are essential for technologies such as Unmanned Aerial Vehicles (UAV) and smart power grids, where operation via remote devices is standard.

Secure remote access in Cyber Physical Systems (CPS) is of paramount importance due to the inherent risks these systems face from cyber threats. With CPS controlling critical infrastructural components like water supply, power grids, and transportation systems, any breach could lead to catastrophic consequences, not only disrupting services but also endangering lives. A notable example is the 2024 Russian Cyber-Physical Attack Readiness Response (CARR) incident on a water utility in Texas. In this attack, hackers exploited vulnerabilities in the water utility's remote access software, enabling them to manipulate the control systems managing water flow and treatment processes. This breach not only threatened the purity and availability of the water supply to residents, but also underscored the potential for widespread public health crises stemming from compromised CPS. The incident served as a stark reminder of the critical need for robust security measures in CPS remote access solutions to prevent unauthorized access and protect essential public infrastructure.

The interconnected nature of CPS means that vulnerabilities in one system can potentially be exploited to compromise others, magnifying the impact of cyberattacks. Ensuring secure remote access mitigates these risks, protecting systems from unauthorized access and ensuring that their reliability, safety, and integrity remain uncompromised. This is a core function of our LinkGuard™ solution.



The Trusted Security of LinkGuard

LinkGuard provides the top most important features for secure remote access:

1. **Robust Authentication and Authorization:** Ensuring that only legitimate users can access the system, using multi-factor authentication (MFA) and complex authorization mechanisms to verify every access request meticulously.
2. **End-to-End Encryption:** Implementing strong encryption for data in transit and at rest, safeguarding against interception, and ensuring that sensitive information remains confidential and secure.
3. **Network Segmentation and Access Control:** Dividing the network into secure segments and controlling access to various parts of the network based on roles and responsibilities, minimizing the potential impact of a breach.



Conclusion

According to the April 18, 2024 Gartner® report "Innovation Insight: CPS Secure Remote Access Solutions", Blue Ridge Networks, Inc. has established itself as a trusted solutions provider for cyber physical system remote access security, with the CyberCloak™ capabilities of LinkGuard.

LinkGuard is easy to install, immediately actionable, and cost-effective. We are proud of this recognition from Gartner®, and we remain committed to developing innovative, scalable, reliable, and affordable quantum resistant cybersecurity solutions for CPS security.

Full Report – [Innovation Insight: CPS Secure Remote Access Solutions](#) (April 18, 2024)
(Gartner Account Required to Access/Download)

About Us

Blue Ridge Networks is a proven and trusted provider of cybersecurity breach prevention solutions. **Our mission is to provide proactive protection of critical infrastructure that eliminates the adverse impacts associated with reactive responses to compromises.**

Our unique CyberCloak capabilities secure critical assets and operations in zero-trust IT/OT network architectures. Regulated, Commercial, and Industrial organizations have trusted Blue Ridge Networks for over 20 years to prevent exploits and receive continuous returns on their investments while achieving uninterrupted operational efficiency.



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