use Case

SecuriCDS® Data Diodes

Protecting information in critical infrastructure



Previously, utilities such as nuclear power stations, electricity distribution, water supply, transportation and telecommunications used closed systems for reporting. Today they all depend on open IT systems and often third parties for management, surveillance and control of functions. These functions include collecting, processing and storing log messages, managing devices on IP networks, real-time billing and more.

Protecting information in critical infrastructure

Secure digitalisation of information systems

While remote vendor support decreases costs and prevents inefficiencies, it leaves facilities more open to information leakage, and even cyberattacks that could have devastating effects. The question is how to protect information in critical infrastructure businesses? How to protect your facility from these threats, yet remain efficient and continue to guarantee operational uptime?

Data Diodes - high security hardware that protects your business processes

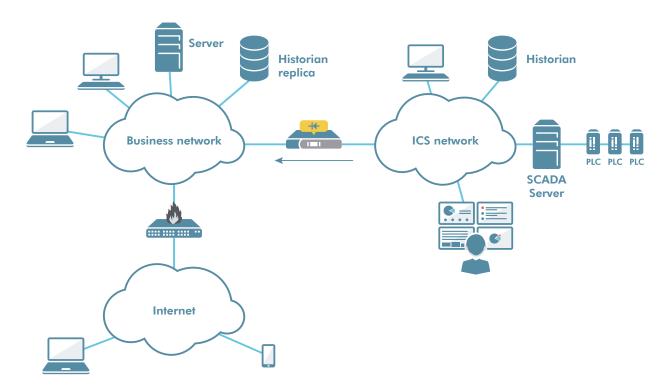
Advenica's SecuriCDS Data Diodes are the failsafe way to protect your sensitive systems and confidential data. They allow only designated data to pass in one direction, no malware, destructive data or a simple administrative mistake can change the information flow during data transfer. They keep sensitive infrastructure safe and running, even under severe conditions.

Data Diodes are compact appliances, also called 'unidirectional security gateways', which sit between two networks. They guarantee simplified yet secure real-time, one-way data transfer, safeguarding the integrity of the connected system. The Data Diode disconnects the critical part of your infrastructure from other networks while maintaining vital information flows.

Protecting your data, creating greater efficiencies

Advenica's Data Diodes are flexible, efficient, and reliable as they use proxy services. They eliminate excessive data validation processes, increasing operational safety. This ensures the availability and integrity of your systems and data. No unauthorised people or processes are able to interfere with your systems. Additionally they offer greater efficiencies over conventional firewalls by reducing firewall configuration, real-time monitoring and logging costs, auditing and training, minimising the risk of human error.

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Keep up with standards and regulations

With the growing need for IP-based access and the risk of intrusion or leakage it brings, it is more important than ever to conform to relevant standards. Advenica's Data Diodes are based on a long experience of building security solutions that have received multi-national approvals for highest classification including Restricted, Confidential, Secret and Top Secret.

SecuriCDS Data Diodes:

SecuriCDS Data Diodes not only prevent intrusion and maintain network integrity but just as effectively prevent leakage and maintain network confidentiality.

This high assurance solution safeguards assets for operators within ICS/SCADA or the defence industry.

Guaranteeing unidirectional separation between network interfaces, SecuriCDS Data Diodes can safely connect two networks of the same or different security levels.

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Advenica provides expertise and world-class high assurance cybersecurity solutions for critical data in motion up to Top Secret classification. We enable countries, authorities and companies to raise information security and digitalise responsibly. Founded in 1993, we are EU approved to the highest level of security. Our unique products are designed, developed and manufactured in Sweden.

Read more at advenica.com

