

use
case **04**

SecuriCDS®
ZoneGuard

**Two-way data
transfer without
fear of cyberattacks**



Power plants and other utility companies need continuous monitoring systems to send commands and receive other information such as system logs or process information. Validation of incoming connections and information flow is critical to mitigate cybersecurity threats.

Two-way data transfer without fear of cyberattacks

Monitoring is often performed by third parties and through networks of varying security levels outside the control of the organisation. The dilemma many companies within critical infrastructure face is how to perform the two-way transfer of data without compromising their systems and leaving them open to cyberattacks.

Secure multi-directional communication

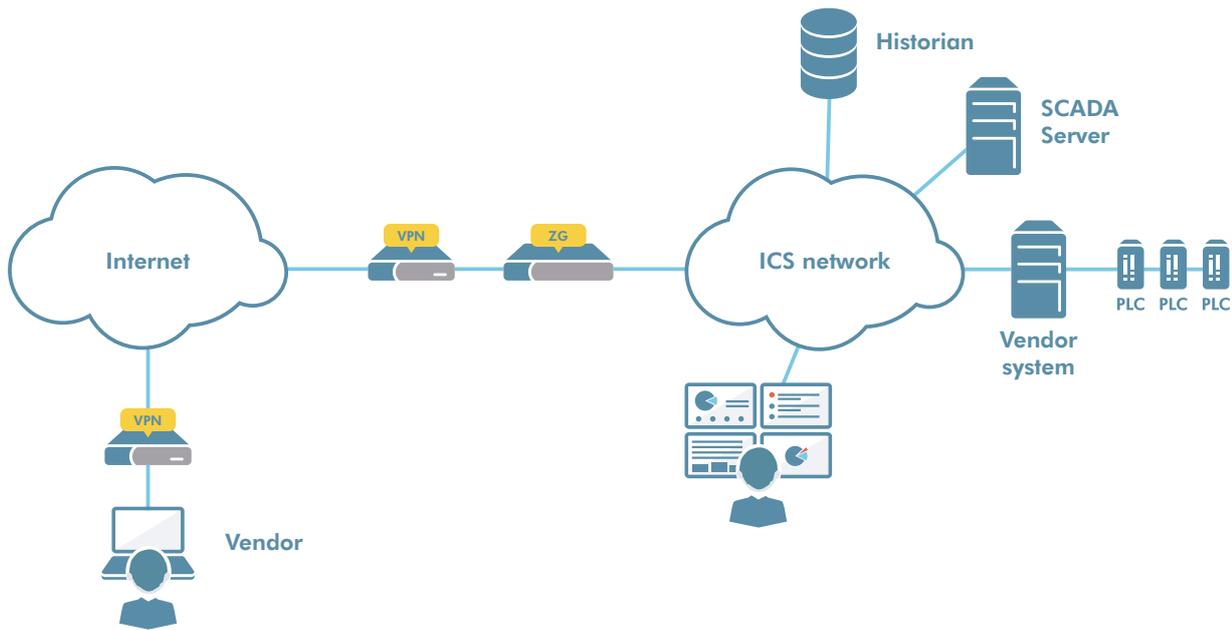
Advenica's SecuriCDS ZoneGuard is a versatile, high-security, protocol independent solution that allows information to flow between different security domains and permits or denies this depending on the implemented filters. As it is a Cross Domain Solution (CDS) it acts as a guard between these domains, which are usually limited by internal rules, policies and external regulations.

Controlled information flows

By using ZoneGuard, organisations can allow access to relevant parts of the system from a third party in a secure way. The information flow can be transferred via a public network using VPN, the information is secured and filtered through ZoneGuard before entering the ICS/SCADA zone.

As an example, when an energy production plant develops a fault it will send an alarm to the relevant equipment supplier who will then request the technical log book, or access to other information or processes that may be sensitive or damaging in the wrong hands. Using automated regulatory processes that govern who may receive what information and when, ZoneGuard approves and sends the technical logs securely.

ZoneGuard helps the power plant send out information to the equipment supplier while sending back acknowledgement receipts. All access and information transferred can be logged to create a complete audit trail for future regulatory evidence.



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 SecuriCDS ZoneGuard is based on a long experience of building highly secure and trusted solutions based on national and EU regulations. The SecuriCDS solution portfolio ensures controlled automatic enforcement of security policies.

Benefits

By using ZoneGuard to safeguard connections to and from ICS/SCADA networks, the integrity of the systems is protected. ZoneGuard enables digitalisation and connections to e.g. vendors without compromising security. Threats towards the critical ICS/SCADA network is effectively mitigated in the cross-domain point by ZoneGuard’s validation and filtering of information.

Solutions from Advenica:

Advenica has extensive experience in building secure solutions based on national and international standards and recommendations. We have developed solutions which facilitate IT security and are easy to use and administer.

- Our solutions provide maximum protection in line with national and international regulations
- Tailor-made product portfolio for different applications
- Broad and deep experience in developing high security and high assurance solutions



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



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