Security for the Utility Grid

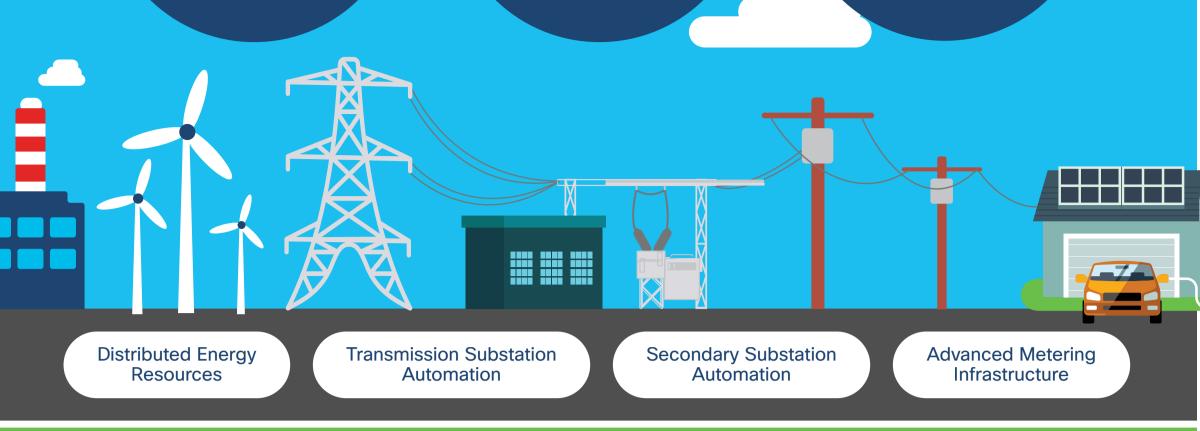
Global utilities are designing and building resilience in their modern grid deployments. Cisco enables new business models to enhance grid security postures without compromising reliability or network response time.

300% Surge of cyberattacks on industrial devices in 2019₁

41%

Of ICS computers attacked at least once in 1H2019₂

Lost to cyber-scams and ransomware in 2019₃



Common Roadblocks and Solutions

Inability to see all of my devices on the ICS network

Utilize Cisco Cyber Vision to identify assets, vulnerabilities, communication patterns, and detect process anomalies

through the entire grid



Cyber/OT-security and regulatory compliance



Deploy an end-to-end/port-to-port OT and cybersecurity approach

Perimeter security and application control not implemented Behaviors and threats not visible

Employ Cisco Secure Firewall ISA3000 to build a perimeter defense to detect

and protect against intrusions and malicious or unintended commands



On-premises and remote user access and activities are unmanaged



Automate and enforce access control with Cisco ISE to provide identity services by user, device, and location



Delayed fault location, isolation, and service restoration Improve responsiveness with a singular network distribution grid to drive



reliability and compliance



Time lapse between breach detection and threat mitigation Monitor real-time network flow, detect traffic anomalies, and predict malware



propagation with Cisco Secure Network Analytics (Stealthwatch)



Build grid resilience and efficiency Deploy IEC 61850 over WAN network, segmentation of SCADA teleprotection,



voice and video surveillance

Cisco Grid Security Solutions will:

Build an inventory of devices and applications operating in

- your grid network Enable visibility into industrial control systems (ICS) to develop
- 2 baselines for devices, applications, and traffic profiles Secure touchpoints where people and their devices securely
- interact with the industrial control systems (ICS) Prepare for the inevitable shift of operational technology (OT)
- components moving to the cloud 5 Deploy tools that enable and inform rapid incident response
- Align with industry security compliance standards such as 6 NERC CIP, and EU NIS

For more information

Contact your Cisco representative or learn more online at:

Get Your IT/OT Security Profile:

cisco.com/go/gridmodernization

3. https://pdf.ic3.gov/2019_IC3Report.pdf

cisco.com/go/itotsecurityprofile

Sources: 1. https://blog.f-secure.com/attack-landscape-h1-2019-iot-smb-traffic-abound/

2. https://ics-cert.kaspersky.com/reports/2019/09/30/threat-landscape-for-industrial-automation-systems-h1-2019/# Toc19618313

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