

Subject: Cyber Security Demo Abstract

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Below is an abstract we can use for the Cyber Security demo planned for CIGRE:

The Cisco Substation Security solution is meant to address the NERC-CIPv5 requirements that went into effect in April 2016. The focus of the solution is on the Cisco substation devices including the ISA3000, IE4000, and CGR2010, as well as the control and datacenter applications that support them (including Cisco Identity Services Engine or ISE). The ISA3000 is Cisco's new ruggedized security appliance that combines the ASA feature set (firewall, VPN) with Sourcefire FirePOWER IPS (including support for industrial protocol signatures). Additionally, the ISA3000 includes support for fail-open ports that can pass traffic even if the ISA3000 fails or loses power. The ISA3000 forms the center of the substation security solution, especially when used in conjunction with the ISE, IE switches, and other components.

The Cisco Cyber Security demonstration use cases include:

- ISA3000 in the substation for FW, industrial IPS, and VPN
- Substation zones and best practices for zone separate based on function
- Integration with ISE for RBAC, courtesy port for contractor access, device monitoring and behavior profiling
- Defense Center for centralized FirePOWER IPS management
- IE4000 switchport security features
- Deep packet inspection for MODBUS / DNP3 (s/w simulator included)

Regards,

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