

# Critical Infrastructure Protection

## Industrial Control Systems / OT Security

Security within an Industrial Control environment is quite different to IT Security and needs to be addressed within its own context.

DTS specialize in **Industrial Control Systems and OT Security**.

**DTS Solution** has partnered with market leaders in the field to provide the most comprehensive ICS security solution offering based on the **ISA99 / IEC-62443** standards.

Working very closely with the vendors, DTS is able to translate the most complex of ICS security solutions into something that is practical, intuitive and complete.

**Industrial Control Systems Security** is the prevention of intentional or unintentional interference with the proper operation of industrial automation and control systems.

These control systems manage essential services including electricity, petroleum production, water, transportation, manufacturing, and communications. They rely on computers, networks, operating systems, applications, and programmable logic controllers, each of which could contain security vulnerabilities. The 2010 discovery of the Stuxnet worm demonstrated the vulnerability of these systems to cyber incidents.

Many government authorities have now passed cyber-security regulations requiring enhanced protection for control systems operating critical infrastructure.

#### Cyber Security Framework Development

- Security Policies Development
- Security Procedures and Standards Development
- Control System Asset Management
- Risk Assessment for ICS / SCADA
- Gap Analysis for ICS / SCADA
- Business Continuity Planning
- Incident Response Plan
- Security Architecture Blueprint
- Workforce Training and Development
- Security Controls Mapping to Industry Standards
- SCADA Network Analysis
- ICS SOC

#### SCADA Security

SCADA (Supervisory Control and Data Acquisition) refers to industrial control systems; computer systems that monitor and control industrial, infrastructure, or facility-based processes.

With **SCADA**, industrial processes include those of manufacturing, production, power generation, and refining, and typically functions in continuous, batch, repetitive or discrete modes. Infrastructure processes may be public or private, and include water treatment and distribution, waste water collection and treatment, oil and gas pipelines, electrical power transmission and distribution wind farms, solar power plants, civil defense siren systems and large communication systems. Facility processes occur both in public facilities and private ones, including buildings, airports and sea ports. They monitor and control HVAC, access, and energy consumption.

**DTS Solution** brings practical SCADA security solutions to the regional market space through unique understanding of SCADA systems, processes and critical integration requirements. SCADA Security for PLC (Programmable Logic Controller) and DCS (Distributed Control Systems) controllers or RTU (Remote Terminal Unit) and protecting interaction from HMI (Human Machine Interface) terminals. Whilst **SCADA security** is unique and different from IT Security, it needs to be managed from a common risk perspective.

#### Technical SCADA Security Services

- Security Architecture Review and Re-Engineering
- Network Segmentation
- Security Zoning and Conduits
- One Way Diode Firewall
- Overlay Encryption
- Patch Management
- Endpoint Security
- Application Whitelisting
- Vulnerability Management for Control System
- SIEM for the ICS/SCADA Environment
- 3rd Party Remote Access