SYNOPSIS

SECURITY FOR INDUSTRIAL AUTOMATION AND CONTROL SYSTEMS
PART 2: SEC 4: SECURITY PROGRAM REQUIREMENTS FOR IACS SERVICE PROVIDERS

SCOPE:

The subject of this technical specification is security for industrial automation and control systems. In order to address a range of applications (i.e., industry types), each of the terms in this description have been interpreted very broadly. The term "Industrial Automation and Control Systems" (IACS), includes control systems used in manufacturing and processing plants and facilities, building environmental control systems, geographically dispersed operations such as utilities (i.e., electricity, gas, and water), pipelines and petroleum production and distribution facilities, and other industries and applications such as transportation networks, that use automated or remotely controlled or monitored assets. The term "security" is considered here to mean the prevention of illegal or unwanted penetration, intentional or unintentional interference with the proper and intended operation, or inappropriate access to confidential information in IACS. Cybersecurity which is the particular focus of this technical specification, includes computers, networks, operating systems, applications and other programmable configurable components of the system.

This part of IS/IEC 62443 specifies a comprehensive set of requirements for security capabilities for IACS service providers that they can offer to the asset owner during integration and maintenance activities of an Automation Solution. Because not all requirements apply to all industry groups and organizations, Subclause 4.1.4 provides for the development of Profiles that allow for the subsetting of these requirements. Profiles are used to adapt this document to specific environments, including environments not based on an IACS.

IS/IEC 62443 to prevent confusion with other uses of this term. Collectively, the security capabilities offered by an IACS service provider are referred to as its Security Program. In a related specification, IS/IEC 62443-2-1 describes requirements for the Security Management System of the asset owner.