

International Society of Automation



Automation and Control Systems Security Assurance (ACSSA) Certification

Based on ISA/IEC 62443

For Asset Owners

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Mission and Vision for ACSSA

01

02

Mission

Publish a consensus specification and establish a global scheme for assessing and certifying the cybersecurity of automation and control systems in use at asset owner sites based on the Asset Owner series of ISA/IEC 62443 standards.

Vision

The assessment specification and resulting standard report will become the de-facto foundational document of reference for assessing and certifying OT cybersecurity, globally, by asset owners, consultants, certification bodies and public policy makers....much like the GAAP standards developed by FASB for financial accounting.





Who will use the ACSSA Assessment Specification?



Asset Owners

... for self assessments or for consultants and other third parties doing the assessments on the asset owner's behalf to standardize the process and reports.



Consultants

... when doing assessments for clients, resulting in an industry standard assessment process and report.



Certification Bodies

... to conduct conformity assessments to the ACSSA specification, certifying conformance to the referenced ISA/IEC 62443 asset owner standards.



... such as regulatory and legislative authorities, ACSSA becomes the definitive reference program when creating public cybersecurity policy.





Use-cases for ACSSA

Assess cybersecurity of production assets and control systems at asset owner site:

- in steady-state
- recently upgraded (Brownfield)
- site commissioning stage (Greenfield)





2023 Membership Additions

Asset Owners

GSK (strategic level)

Automation & Technology Suppliers and Service Providers

Trane (strategic level

SecurityGate

Secuda

IACS Consulting

Interstates

Armexa

Securing Things

CyberPrism

Walnut Creek Consulting

Arcadis

Certification Bodies

Kaizen

Ikerlan

UL Solutions





Development of ACSSA Scheme from ISA/IEC 62443

ISA/IEC 62443 Asset Owner Standards

(390 requirements)

62443-2-1 – Security program requirements

62443-3-2 - Risk assessment and system design

62443-3-3 – System requirements and security levels

62443-2-4 – Service provider Requirements

ISASecure TSC Develops Specifications

"Core" ISASecure ACSSA Program

Assessment

Assessment Specification

Standardized assessment methods, tools, assessor guidance

Three-day Training Class

Asset owner standards, ACSSA assessment methodology

Certification

Certification Definition

Pass/fail

Program policies and procedures

Assessor Company Accreditation

ISO 17020 and scheme specific requitements

Assessor Personnel Credential Program

Profile, education, experience, certifications





Develop ACSSA Sector Security Profiles

"Core" ISASecure ACSSA Program

Assessment

Assessment Specification

Standardized assessment methods, tools, assessor guidance

Three-day Training Class

Asset owner standards, ACSSA assessment methodology

Certification

Certification Definition

Pass/fail

Program policies and procedures

Assessor Company Accreditation

ISO 17020 and scheme specific requitements

Assessor Personnel Credential Program

Profile, education, experience, certifications

Water / Wastewater

Railway

Electric

Smart Buildings

Pipelines

Other





"Core" ISASecure ACSSA Certification Specification

Scope is Automation and Control Systems in Operation

- Security Requirements
- Detailed assessor guidance
- Use of tools and methods
- Certification definition
- Policies and procedures
- Pass / Fail metrics

