



GLOBAL
CYBERSECURITY
ALLIANCE

www.isa.org/ISAGCA



38,500
MEMBERS

135
SECTIONS

44
COUNTRIES

350,000
CUSTOMERS

STANDARDS

EDUCATION

CERTIFICATION

CONFERENCES

PUBLICATIONS

COMPLIANCE



The Foundation of ISA's Work in Automation Cybersecurity

The ISA/IEC 62443 Series of Standards

Importance of the ISA/IEC 62443 Standards

**Leveraging industry standards
increases productivity, lowers costs, and keeps facilities safe**

World's only consensus-based
standard for automation and
control system applications



Defines requirements and
procedures for implementing
electronically secure systems



Flexible framework to address
and mitigate current and
future security vulnerabilities



Leverages a holistic approach,
bridging the gap between operations
and information technology; and
between safety and cybersecurity



IEC 62443 Family of Standards

General

ISA-62443-1-1

Concepts and models

ISA-62443-1-2

Master glossary of terms and abbreviations

ISA-62443-1-3

System security conformance metrics

ISA-TR62443-1-4

IACS security lifecycle and use-cases

Policies & Procedures

ISA-62443-2-1

Security program requirements for IACS asset owners

ISA-62443-2-2

Security Protection Rating

ISA-TR62443-2-3

Patch management in the IACS environment

ISA-62443-2-4

Requirements for IACS service providers

ISA-TR62443-2-5

Implementation guidance for IACS asset owners

System

ISA-TR62443-3-1

Security technologies for IACS

ISA-62443-3-2

Security risk assessment and system design

ISA-62443-3-3

System security requirements and security levels

Component

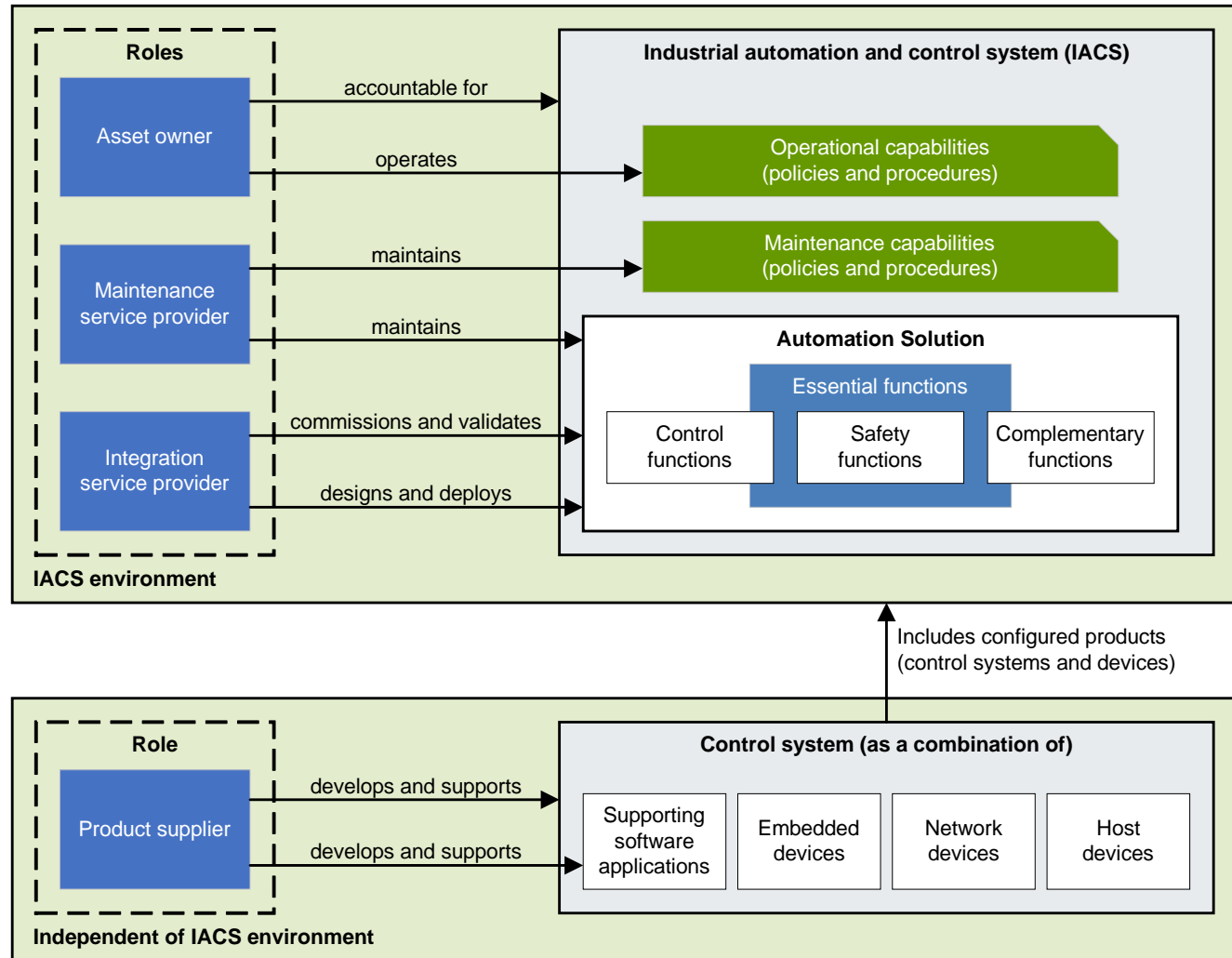
ISA-62443-4-1

Secure product development lifecycle requirements

ISA-62443-4-2

Technical security requirements for IACS components

Stakeholder Roles, Responsibilities and relevant 62443 standards



- **Asset Owner**
 - Part 1-1 – Concepts and models
 - Part 2-1 – Security program requirements
 - Part 2-2 – Security protection rating
 - Part 2-3 – Patch management
 - Part 3-2 – Risk assessment and system design
- **Maintenance Service Provider**
 - Part 1-1 – Concepts and models
 - Part 2-4 – Service providers
- **Integration Service Provider**
 - Part 1-1 – Concepts and models
 - Part 2-4 – Service providers
 - Part 3-2 – Risk assessment and system design
 - Part 3-3 – System requirements and security levels
- **Product Supplier**
 - Part 1-1 – Concepts and models
 - Part 3-3 – System requirements and security levels
 - Part 4-1 – Security development lifecycle
 - Part 4-2 – Component requirements

ISA's Cybersecurity Consortia

The logo for LOGIC, with the word "LOGIC" in a bold, sans-serif font. The "I" and "C" are stylized with blue vertical bars.

Research and development on cybersecurity topics for automation used by the oil and gas industry

Current members include:
BP, Chevron, ExxonMobil, Shell, Total, ConocoPhillips, and other large oil and gas companies that operate significant global energy infrastructure.

The logo for ISA Secure, featuring a padlock icon inside a square frame, followed by the text "ISA Secure" in a bold, sans-serif font.

ISA/IEC 62443 certification of supplier COTS products and development processes, and end user operating facilities

Notable members include:
Chevron, ExxonMobil, Honeywell, Schneider Electric, Yokogawa, exida, Control System Security Center, YPF, Japan ITPA, Royal Dutch Shell plc, TUV Rheinland, DNV GL, and TUV SUD

The logo for the ISA Global Cybersecurity Alliance, featuring a circular icon with the letters "ISA" inside, followed by the text "GLOBAL CYBERSECURITY ALLIANCE" in a bold, sans-serif font.

Brings the automation cybersecurity ecosystem together to lead culture change, drive market adoption of industry standards

ISA is uniquely qualified to lead this effort



Unbiased 501c3

Independent, tax-exempt, global professional organization



Home of the ISA/IEC 62443 Standards

Developers of the world's only consensus automation cybersecurity standards



Established Training and Certification Programs

Trusted industry resource for hands-on, vendor-neutral training and certification



Advocacy and Outreach Capabilities

ISA has extensive experience sharing knowledge across industries and stakeholder groups



Experience Managing Consortia

ISA has managed several consortia and industry groups, including LOGIIC, the ISA Secure® Program, and the ISA100 Wireless™ Program



ISA Global Cybersecurity Alliance is Different

Open, standards-based, and practical

All-Inclusive, Industry Wide

The challenge is so much bigger than any one organization - no matter how big or capable - can tackle alone. We see a need for an open, transparent body to bring all kinds of groups together.

Built Around Global Standards

A broad network of end users, vendors, government agencies, and other stakeholders will leverage the UN-endorsed, consensus-developed series of standards as a foundation.

Practical and Tactical

GCA will develop the training, tools and know-how to bridge the gap between the standards and implementation, making standards more approachable and user-friendly.

**Our member
companies hold and
promote these five
core beliefs**



Digital transformation leverages innovative technologies but often undervalues security.



Consequence-driven, cyber-informed engineering is a business imperative.



Safety and cybersecurity are inseparable.



Cybersecurity improvement is a discussion about organizational culture, not just technology.



These challenges can only be handled by collaborating and working together in an open, inclusive environment.

Fast Facts

- ISAGCA launched 2nd half of 2019 as a global initiative
- Six initial members, over 35 today and growing
- Four major areas of focus, all operational with member champions
- One key deliverable released, with two more slated for release in summer 2020



ISAGCA is growing formal liaisons to collaborate with other industry groups:

- ISASecure
- LOGIIC
- ISA99 standards committee
- Others underway, to be announced

The ISA Global Cybersecurity Alliance

will work together to develop solutions that
address our biggest challenges



COLLABORATION

When manufacturers, asset owners, vendor companies, government agencies, and other stakeholders join together in an open and transparent way, we can move industry forward faster and more effectively



STANDARDIZATION

Standards exist, but aren't well understood. Our companies need easy-to-follow guides for implementing best practices, and industry needs to increase the adoption of standards globally



EDUCATION










Human error is the biggest factor in safety and security incidents around the world. Providing accessible, consistent training and education for professionals at all levels gives our companies a first line of defense



PROTECTION

Ensuring the inherent security of vendor devices and systems, and exploring ways to increase compliance with best practices, offers real risk reduction in your operations

Alliance Objectives

	Expansion and adoption of ISA/IEC 62443	=	User-friendly, consistent standards implementation	
	Industry reach and awareness	=	A vigilant, proactive cybersecurity culture in every facility	
	Workforce training and development	=	A skilled, experienced workforce that drives results	
	Optimized compliance and prevention	=	Reliable, secure, and interoperable devices and systems	
	Shared threat intelligence and experience	=	Stay ahead of increasing threats and vulnerabilities	

Manufacturer Benefits

Top Reasons for Manufacturers to Join the ISAGCA

*Leverage the power of a
unified group of experts
and thought leaders*

EXPONENTIAL KNOWLEDGE

- 01** Leverage the collective knowledge, experience, and best practices across industries, facilities, and geographies

UNPARALLELED ACCESS

- 03** Access the experts and thought leaders that are shaping the future of cybersecurity in multiple industries

CONSISTENCY

- 05** Develop a consistent approach to cybersecurity using the lens of people, processes, and technology

AMPLIFIED VOICE

- 02** Explore and define challenges with people who can take down barriers and solve problems

INFLUENCE SOLUTIONS

- 04** Influence the creation of the latest tools, guides, and best practices to help your company address cybersecurity challenges

EMPOWERMENT

- 06** Empower your company to create and sustain a positive cyber-aware culture at every level of the organization

Initial Workgroups of the ISA Global Cybersecurity Alliance

Awareness and Outreach



- Cultivates awareness and engagement around important cybersecurity issues with industry and stakeholders across all relevant sectors
- Serves as primary marketing arm for the ISAGCA's objectives and accomplishments

Advocacy and Adoption



- Expands and extends the adoption and use of cybersecurity standards worldwide
- Cultivates relationships with key global stakeholder groups and agencies
- Develops materials that help all sectors utilize standards and technical guidance

Training and Education



- Delivers specific workforce development initiatives with consideration to all relevant job functions and industry sectors
- Develops and promotes training courses, web seminars, educational events, certificates or certification programs, etc.

Compliance and Prevention



- Expands and develops compliance, prevention, and harmonization initiatives
- leverages collective expertise and intelligence of member companies for the good of industry

[illegible]

Download a free overview of the ISA/IEC 62443 standards -
courtesy of ISAGCA!



— GUIDE TO —
CYBERSECURITY
STANDARDS

WWW.ISA.ORG/CYBERGUIDE

PARTNER WITH US TO CHANGE THE WORLD OF AUTOMATION CYBERSECURITY



Join the ISA Global
Cybersecurity Alliance to
lead and influence
direction, priorities, and
work products



Explore standards-based
certification for your
products and development
processes through
ISASecure



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General Inquiries:

Andre Ristaino
ISA Global Cybersecurity
Alliance Director
aristaino@isa.org

Membership Inquiries:

Elena Pitt
Strategic Business Development
epitt@isa.org
+1 919-323-4023

Education & Certification Inquiries:

Geri McGrath
Global Education Director
gmcgrath@isa.org
+1 919-990-9381