

# Automation & Control System Security Assurance (ACSSA) Implementation Update



International Society of Automation  
*Setting the Standard for Automation™*



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# Agenda



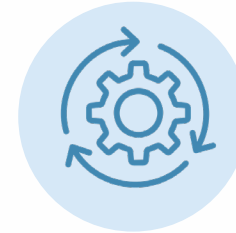
WELCOME



PANELIST INTRO



ACSSA ...  
THE WHY



TECHNICAL  
UPDATE






Q&A

**Questions** ... Submit them through the Q&A Panel throughout the Program



# ISASecure Certifications

Today's Webinar Topic

Certification Description	Certification Mark	Availability
<b>Automation and Control system Security Assurance (ACSSA)</b> ISA/IEC 62443 2-1, 2-4, 3-2, 3-3	"ISASecure IEC 62443 Conformant Operating Site"	Summer 2025
<b>IIoT Component Security Assurance (ICSA)</b> ISA/IEC 62443-4-1 and ISA/IEC 62443-4-2 plus 16 extensions	 Certified IIoT Component <b>ISASecure</b>	Dec 2022
<b>Component Security Assurance (CSA)</b> ISA/IEC 62443 4-1 and ISA/IEC 62443 4-2	 Certified Component <b>ISASecure</b>	Aug 2019
<b>System Security Assurance (SSA)</b> ISA/IEC 62443 3-3 and ISA/IEC 62443-4-1	 Certified System <b>ISASecure</b>	Oct 2018
<b>Security Development Lifecycle Assurance (SDLA)</b> ISA/IEC 62443 4-1	"An ISASecure Certified Development Organization"	July 2014



# Mission and Vision for ACSSA

## 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.

## ISA/IEC 62443 Asset Owner Standards (346 requirements)

**62443-2-1 –  
Security program  
requirements**

**62443-3-2 –  
Risk assessment &  
system design**

**62443-3-3 –  
System requirements  
& security levels**

**62443-2-4 –  
Service provider  
requirements**

*TSC = Technical  
Steering  
Committee*

**ISASecure TSC  
Develops  
Specifications**

*CAB = Conformity  
Assessment Body*

## “Core” ISASecure ACSSA Program

### Evaluation methods

#### Evaluation Specification & Report

Standardized evaluation  
methods, & **report**.

#### Three-day Training Class

Asset owner standards, ACSSA  
evaluation methodology

#### Specification Licensing Agreements

End-users, consultants,  
conformity assessment bodies,  
other

### Third-party Inspection/ Certification Schemes

#### Scheme Definitions

Pass/fail for certification  
Program policies & procedures

#### CAB Accreditation

ISO/IEC 17020 (inspection),  
17065 (certification) and  
scheme specific requirements

#### Evaluator Personnel Credential Program

Profile, education, experience,  
certifications

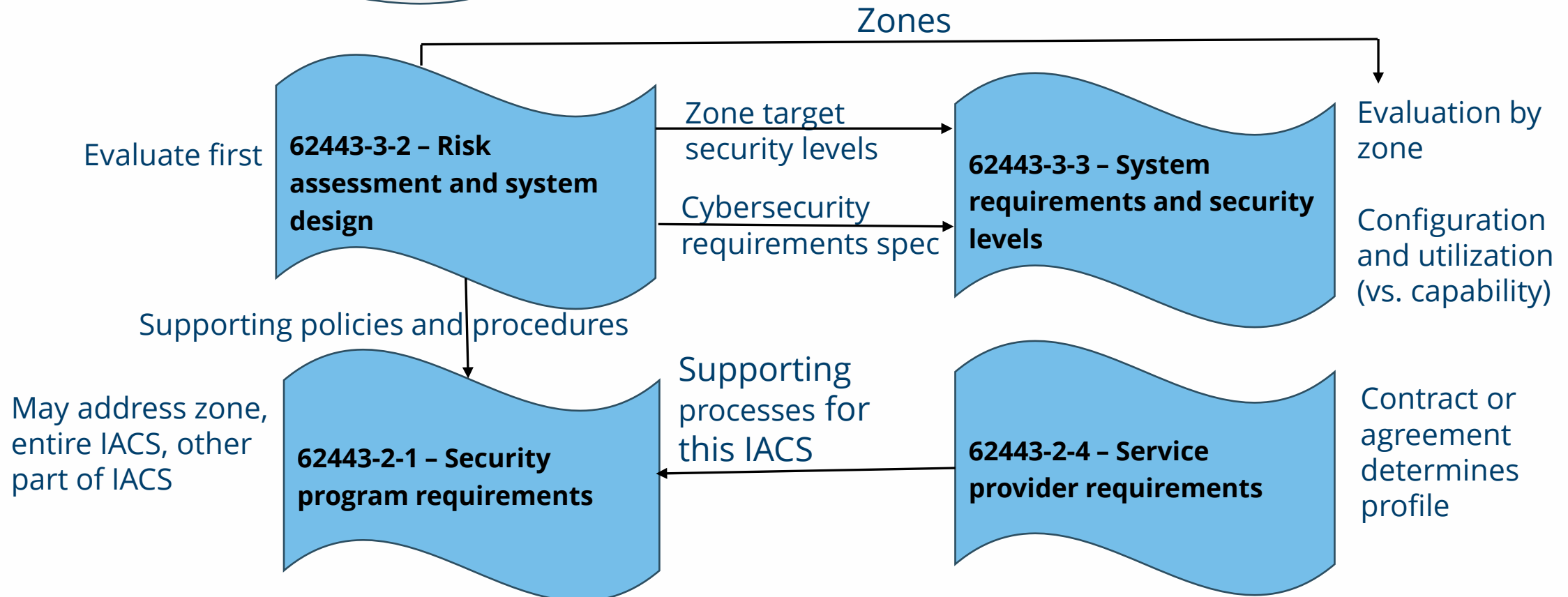


## Evaluation Specification & Report

Standardized evaluation methods, and **report**.

Progress: evaluation specification at 95%,  
kicked off report development

Evaluation integrated across parts of the standard





## Scheme Definitions

Pass/fail for certification

Program policies & procedures

Progress: 85%

### Decided:

- Two programs, same technical evaluation:
  - Inspection (one and done)
  - Certification (3-year certificate, annual surveillance)
- Evaluation plan for each client
- Option to roll inspection report into certification
- Certification is for maturity level 3
- Public or specific disclosure of certificate up to asset owner



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### **CAB Accreditation**

ISO 17020 (inspection), 17065 (certification) and scheme specific requirements

### **Evaluator Personnel Credential Program**

Profile, education, experience, certifications

Progress: 85%

#### **Requirements for evaluators include:**

- Work experience in ACS environment
- 62443 expertise
- ACSSA training certificate, pass exam
- Annual ACSSA training update





## Three-day Training Class

Asset owner standards, ACSSA  
evaluation methodology

Progress: Team in place, class outline

Coverage: How to perform an ACSSA evaluation

Prerequisite: 62443 expertise (tested)

### Top level outline:

- Overview of ACSSA
- Eligibility
- Plan the evaluation
- Evaluation process
- Evaluation methods
- Document the evaluation
- Surveillance
- Recertification



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## Specification Licensing Agreements

End-users, consultants, conformity assessment bodies, other

Coming Soon



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# Q&A

# Cybersecurity Resources at ISA

ISASecure product certifications – <https://www.isasecure.org/en-US/>

ISASecure web page with ACSSA program details <https://isasecure.org/isasecure-site-assessment-0>

ISA Global Cybersecurity Alliance - <https://isagca.org/>

ISAGCA Blogs (tons of great info and free downloads) - <https://gca.isa.org/blog>

ISA/IEC 62443 Training - <https://www.isa.org/training-and-certification/isa-training>

In 2021, ISA established a cybersecurity incident command system for industrial control systems.  
[www.ics4ics.org](http://www.ics4ics.org)

***Elevating OT cybersecurity from an art, to a science, to an engineering discipline***



# Thank You



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