



<https://t.me/learningnets>



PROJECT

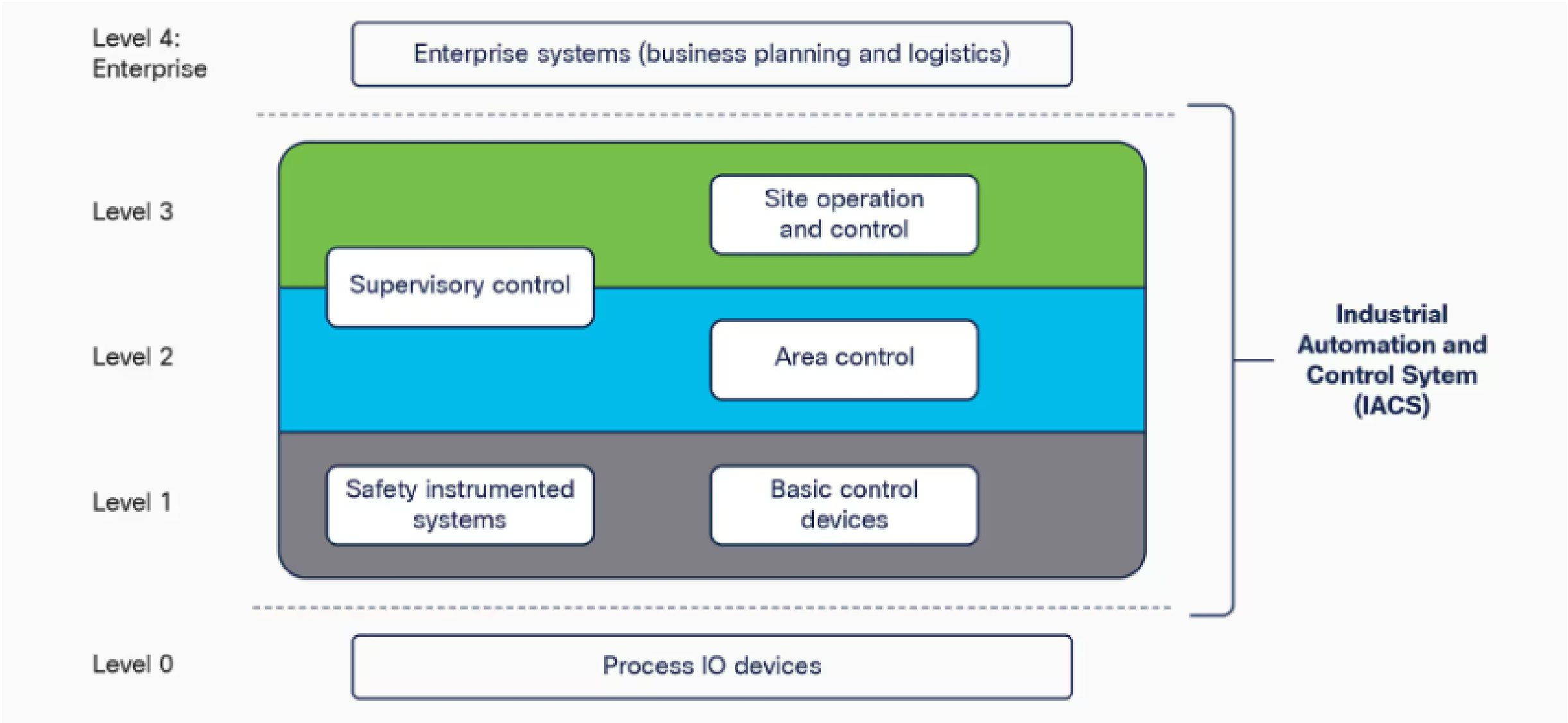
ENG

PRO

CYBER SECURITY FOR INDUSTRIAL CONTROL SYSTEMS

By Project **ENG PRO**





General

- IEC-62443-1-1
Concepts and models
- IEC-TR62443-1-2
Master glossary of terms and abbreviations
- IEC-62443-1-3
System security conformance metrics
- IEC-TR62443-1-4
IACS security lifecycle and use-cases

Policies & Procedures

- IEC-62443-2-1
Security program requirements for IACS asset owners
- IEC-62443-2-2
IACS protection levels
- IEC-TR62443-2-3
Patch management in the IACS environment
- IEC-62443-2-4
Requirements for IACS service providers
- IEC/TR62443-2-5
Implementation guidance for IACS asset owners

System

- IEC/TR62443-3-1
Security technologies for IACS
- IEC/62443-3-2
Security risk assessment and system design
- IEC 62443-3-3
System security requirements and security levels

Component

- IEC 62443-4-1
Secure product development lifecycle requirements
- IEC 62443-4-2
Technical security requirements for IACS components

FR1 – Identification, authentication and access control

FR2 – Use Control

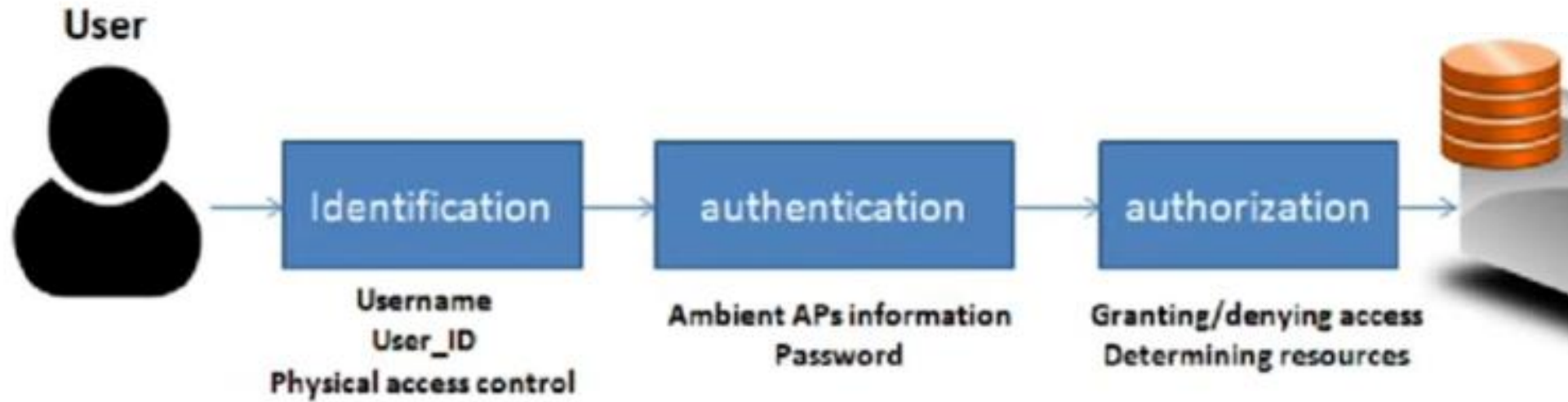
FR3 – System Integrity

FR4 – Data Confidentiality

FR5 – Restrict Data Flow

FR6 – Timely response to event

FR7 – Resource Availability



FR1 – Identification, authentication and access control

FR1 – Identification, authentication and access control

Attribute-Based Access Control (ABAC)

Role-Based Access Control (RBAC)

Mandatory Access Control

Discretionary Access Control (DAC)

Break Glass Access Control

Rule-Based Access Control

Physical Access Control

Wrap Up



This lesson covered ICS cybersecurity foundational requirements based on IEC 62443 standard.

Seven key requirements were discussed: identification, authentication, system integrity, data confidentiality, restricted data flow, event response, and resource availability.

Access control types including ABAC, RBAC, DAC, and more were explained.

This knowledge aids in designing secure systems for industrial control environments.



<https://t.me/learningnets>