

# Meet ISA/IEC 62443 Compliance Requirements With Safous

The ISA/IEC 62443 series is an international cybersecurity standard for securing operational technology (OT) in industrial automation and control systems (IACS). It outlines the technical security controls organizations must implement to meet target security levels and defend critical assets from cyber threats.

ISA/IEC 62443-3-3 is a section of the standard that defines security requirements to ensure that an IACS meets the target security level for protection against cyber threats and other risks.

Safous makes it easier to align with these requirements by enforcing access governance, identity management, and remote monitoring across IT, OT, and IoT systems – all without disrupting legacy OT environments. For businesses connecting to control systems, Safous provides the cloud-native foundation needed for secure remote operations in complex ICS environments.

This checklist highlights selected ISA/IEC 62443-3-3 requirements that Safous directly supports. Full compliance with this standard requires additional organizational processes, security controls, and system configurations beyond the scope of Safous.

## Safous and ISA/IEC 62443-3-3 Alignment

ISA/IEC 62443-3-3 Requirement	How Safous Helps
<b>SR 1.1 RE 1-2 – Human user identification and authentication</b>	Enforces user-specific identity verification and MFA for all access to OT/ICS systems.
<b>SR 1.2 – Software process and device identification and authentication</b>	Authenticates user devices and proxies application access to reduce unauthorized entry points.
<b>SR 1.3-1.5 – Account and credential management</b>	Integrates with identity platforms and supports role-based controls, vaulting, and credential lifecycle enforcement.
<b>SR 1.7 RE 1-2 – Strength of password-based authentication</b>	Enforces custom password policies, expiration, and complexity rules via directory integrations.
<b>SR 1.8-1.9 – PKI and certificate validation</b>	Supports TLS 1.2+ with external CA integration, certificate path validation, and revocation checks.
<b>SR 1.10 – Authenticator feedback</b>	Obscures login credentials (e.g., masked passwords) to prevent side-channel attacks.
<b>SR 1.11 – Unsuccessful login attempts</b>	Detects brute-force attempts and locks accounts after a set number of failed logins.
<b>SR 1.12 – System use notification</b>	Allows admins to display customizable pre-login banners and system use agreements.

ISA/IEC 62443-3-3 Requirement	How Safous Helps
<b>SR 1.13 RE 1 – Access via untrusted networks and explicit access approval</b>	Monitors, filters, and alerts on all remote access from external networks with full session visibility.
<b>SR 2.1 RE 1-2 – Authorization enforcement</b>	Helps enforce least-privilege access via RBAC by mapping access to roles, zones, and application types.
<b>SR 2.1 RE 3-4 – Supervisor override and dual approval</b>	Supports just-in-time access and session approvals for critical actions.
<b>SR 2.5 – Session lock</b>	Automatically locks inactive sessions after a configurable idle period.
<b>SR 2.6 – Remote session termination</b>	Allows admins to manually or automatically terminate privileged sessions in real time.
<b>SR 2.7 – Concurrent session control</b>	Limits concurrent sessions per user with customizable enforcement settings.
<b>SR 2.8 – Auditable events</b>	Captures full session logs, user commands, screen activity, and access events for compliance.
<b>SR 2.9 – Audit storage capacity</b>	Stores session and event logs centrally with configurable retention settings and WORM options.
<b>SR 2.11 RE 1-2 – Timestamps and protected time source</b>	Generates timestamped logs and integrates with trusted NTP sources for accuracy.
<b>SR 2.12 – Non-repudiation</b>	Binds each session to a verified user identity with unalterable activity logs.
<b>SR 3.1 – Communication integrity</b>	Uses encrypted, proxy-based connections to preserve communication integrity and logically isolate application sessions.
<b>SR 3.2 RE 1-2 – Malicious code protection and management</b>	Performs pre-connection posture checks (e.g., AV status, OS patching) to support malicious code protection policies.
<b>SR 3.3 – Security functionality verification</b>	Supports session inspection, change audits, and anomaly detection during normal operations.
<b>SR 3.4 – Software and information integrity</b>	Detects and records unauthorized changes made during remote sessions.
<b>SR 3.8 RE 1-3 – Session integrity</b>	Assigns unique session IDs, terminates expired sessions, and protects against hijacking.
<b>SR 3.9 – Protection of audit information</b>	Helps prevent tampering with session recordings and audit logs using immutable storage options and RBAC.
<b>SR 4.1 – Information confidentiality</b>	Applies end-to-end encryption and application-level session isolation to protect data-in-transit and prevent session-level eavesdropping or lateral exposure.
<b>SR 4.3 – Use of cryptography</b>	Enforces industry-standard cryptographic protocols (TLS 1.2+/1.3) for all communications.

ISA/IEC 62443-3-3 Requirement	How Safous Helps
<b>SR 5.1 – Network segmentation</b>	Limits network exposure by enabling application-level access without direct network access.
<b>SR 5.2 – Zone boundary protection</b>	Helps enforce deny-by-default access policies by allowing traffic only to approved applications.
<b>SR 6.1 – Audit log accessibility</b>	Restricts log access to authorized users through defined roles and permissions.
<b>SR 7.1 – DoS protection</b>	Provides DoS protection at the Safous POP layer and isolates individual app sessions, enabling early traffic filtering and termination of misbehaving sessions to reduce service disruption.
<b>SR 7.2 – Resource management</b>	Applies usage caps to protect system resources from overload and maintain session performance.
<b>SR 7.3 RE 1-2 – Control system backup, verification, and automation</b>	Supports automated backup and export of Safous logs, which can be integrated into the broader IEC 62443-3-3 SR 7.3 control system backup strategy.
<b>SR 7.6 – Network and security configuration settings</b>	Centralizes security and access policies, with support for export and review.
<b>SR 7.7 – Least functionality</b>	Restricts unused protocols and services; limits user actions based on access policy.

## Simplify ISA/IEC 62443 Compliance Alignment With Safous

Safous helps you align with ISA/IEC 62443 through a single, cloud-native platform built for critical infrastructure. Gain secure access management, real-time monitoring, and detailed audit trails without adding complexity.

**Contact us today** to see how Safous can support your compliance roadmap.

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