



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

# ISA/IEC 62443

## An Asset Owner's Perspective

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# Topics



ExxonMobil's ISA/IEC 62443 journey



Program Development & Sustainment

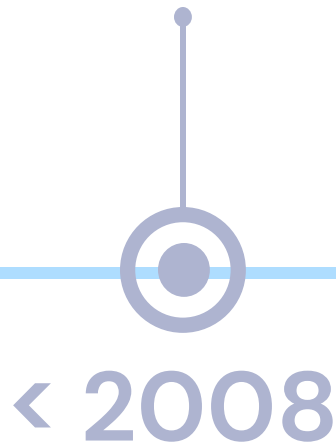


Advice for Getting Started



# Our Journey

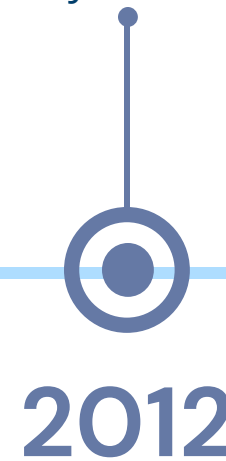
Business-line specific standards



2008



Initial alignment with industry standards



2020 >





# Program Development

**Objective:** Integrate industry standards into corporate standard

## Highlights

- Enhanced management of risks and controls
- Consistent language, expectations, and processes
- Flexible, risk-based approach

## Challenges

- Business model diversity
- Requirements vs. recommendations
- Prescriptive vs. risk-based
- Government regulations



# Program Sustainment



Governance



KPIs



Culture



Training



Internal Collaboration



External Engagement



# External Engagement

Suppliers

Service  
Providers

3rd Pty  
Operators

EPC Contractors

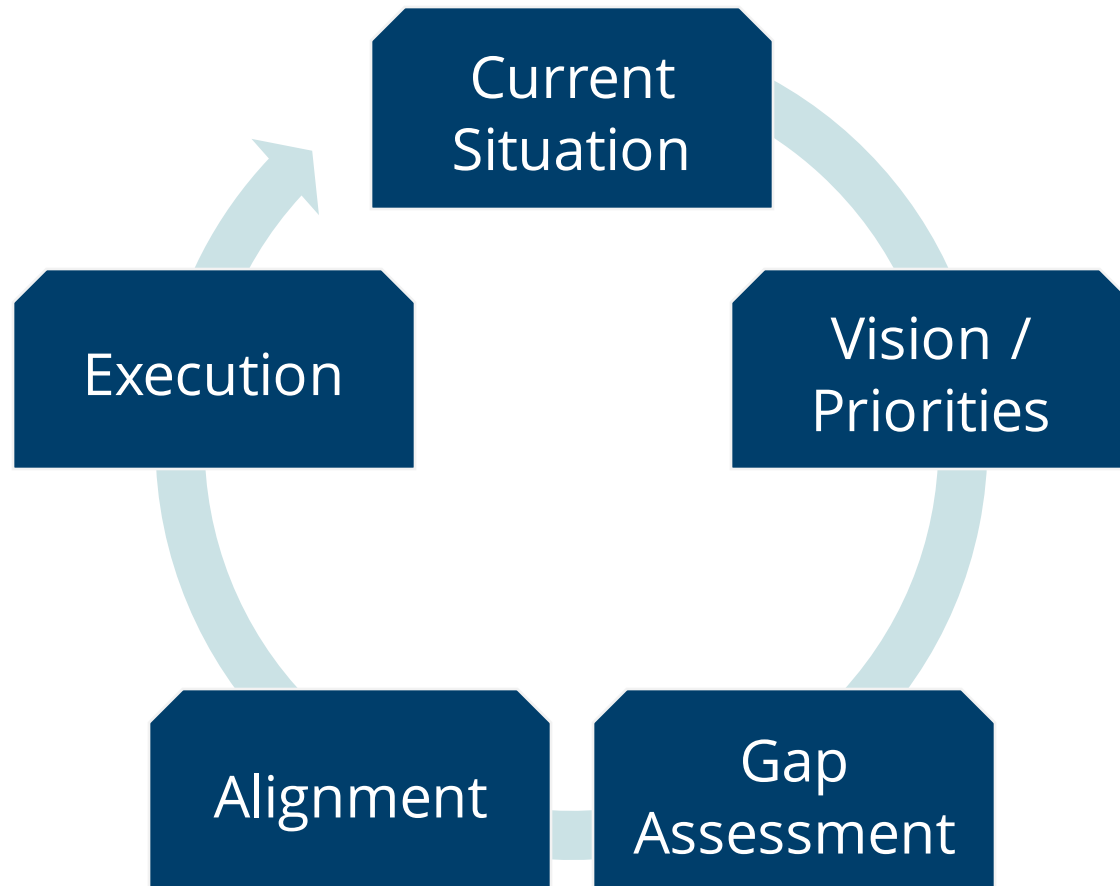
Joint Ventures

Standards Orgs

Gov't Orgs



# Getting Started with ISA/IEC 62443



## Key Milestones

- Requirements ('what')
- Work practices ('how')
- Rollout plan / pilots

## Key Success Factors

- Management buy-in & support
- Central coordination / guidance
- Key performance indicators
- Stewardship & communication



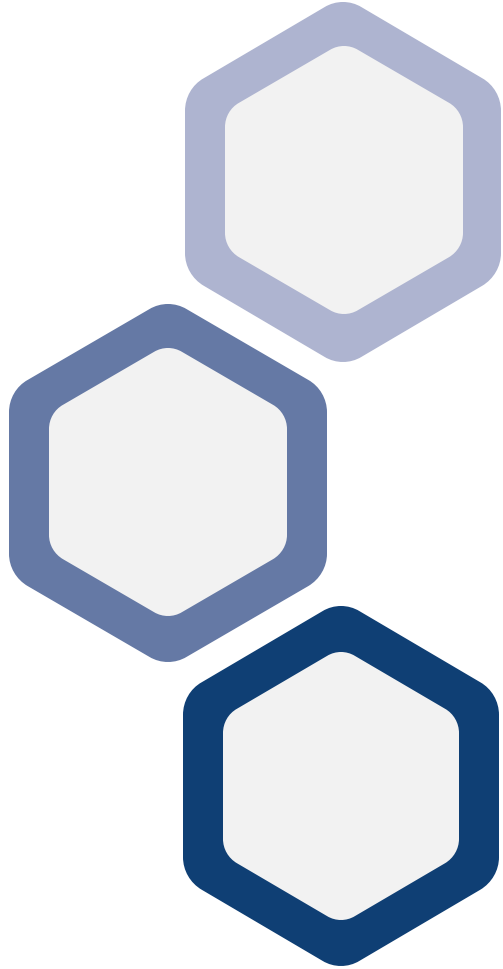
# Benefits of ISA/IEC 62443

- ✓ Developed by industry experts; consensus-based
- ✓ Internationally recognized; credible within engineering community
- ✓ Adopted by asset owners, service providers & product suppliers
- ✓ Conformance schemes & certifications provide assurance
  - ✓ Security development lifecycle
  - ✓ IACS components / systems
  - ✓ Site-deployed systems (\*coming soon\*)





# Summary / Key Takeaways



Program maturity takes time. Be strategic

Prioritize essential/critical functions (safety/high availability systems)

External engagement is critical

Seek minimum security level (SL) 2 certification for systems / components; encourage progression to SL3

Raise awareness of ISA/IEC 62443 (sector, suppliers, government)



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**Thank you**



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- Continue the conversation on this topic in the Technical Discussion Forum at: <https://connect.isa.org>.



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