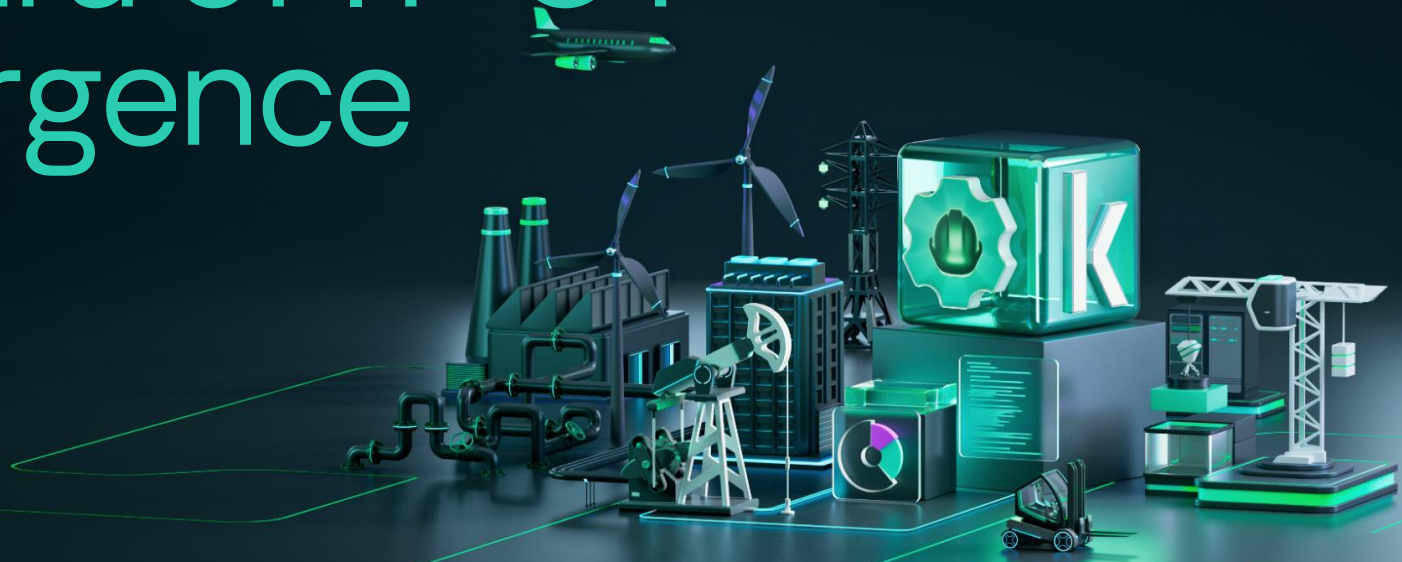
Kaspersky Industrial Cybersecurity Conference 2024

Industrial Cybersecurity in the Era of IT-OT Convergence

Welcome Address



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IT-OT Convergence Landscape

Information Technology (IT) systems manage data and communication environments

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Operational Technology (OT) systems control physical processes in industrial environments

- Digital transformation and Industry 4.0
- IoT integration
- Cloud Computing
- AI and Data Analytics
- Cybersecurity Concerns

- Enhanced Efficiency
- Real-Time Data Insights
- Improved Predictive Maintenance
- Improve Cybersecurity Posture
- Increased Flexibility and Scalability
- Enhanced Innovation
- Sustainability and Compliance

- Discovered in 2010
- First known digital weapon
- CI targeted and compromised
- Exposed significant OT system vulnerabilities
- Raised awareness of potential cyber warfare

- Need for Security for OT
- Incident Response Planning
- Understanding Attack Vectors
- IT and OT Collaborations
- Awareness and Training
- Regulatory Compliance

OT Attacks are NOT NEW

Implications of OT Attacks

- Safety Risks
- Operational Down Time
- Data Loss and Theft
- Regulatory Consequences
- Reputation Damage
- Financial Loss

Why ICS is Important

- Increased Vulnerabilities
- Operational Continuity
- Critical Infrastructure Protection
- Data Integrity and Confidentiality
- Real-Time Monitoring and Response
- Advanced Security Strategy

International Standards

IIEC 62443
Industrial automation and control systems (IACS)

ISO/IEC 27001
International standard for information security management systems (ISMS)

Cybersecurity Laws and Data Protection

Cybersecurity and Data Protection Laws China, Malaysia, Singapore, Thailand, India

Data Protection Laws in Japan, Hong Kong, South Korea

Compliance to Safeguard

- Risk Mitigation
- Enhanced Security Posture
- Legal and Financial Implications
- Operational Continuity
- Stakeholder Trust

Impact of Data Protection Laws

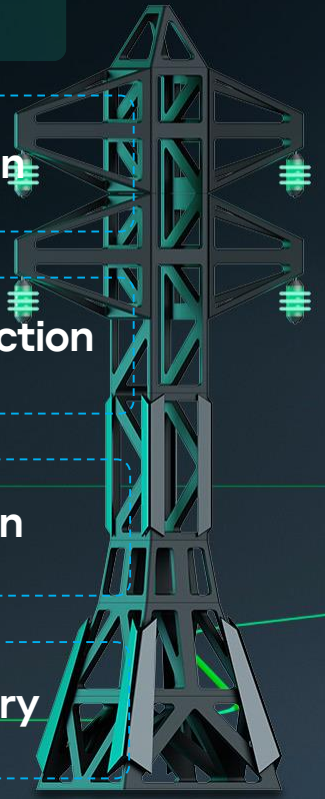
- Data Handling Requirements
- Data Breach Protocols
- Increased Security Measures
- Cross-Functional Collaborations
- Technology Adoption

Present Trends

- Enhanced Security Protocols
- Artificial Intelligence and Machine Learning
- Collaboration and Training

Future Outlook

- Continued Integration
- Advanced Threat Detection
- Regulatory Evolution
- Resilience and Recovery

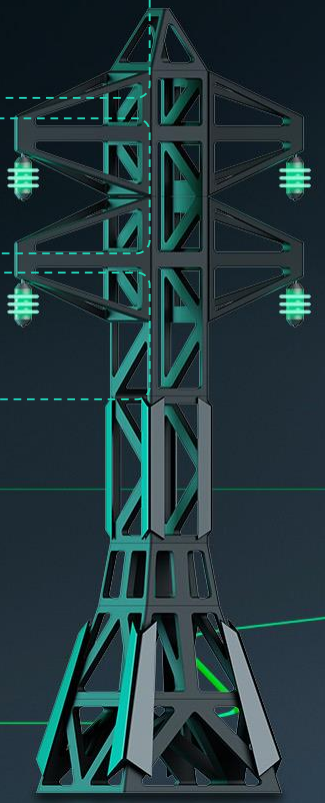


Challenges in IT- OT Convergence

- Cultural Differences
- Legacy Systems
- Security Vulnerabilities
- Lack of Standardisation
- Data Management
- Skill Gaps

Business Needs and Expectations

- Operational Efficiency
- Real-Time Decision-Making
- Cost Reduction
- Pressure to Maintain Operational Continuity
- Innovation and Agility
- Enhanced Security
- Compliance and Risk Management



Comprehensive Security Approach

Processes

- Risk Assessment
- Incident Response Planning
- Change Management
- Compliance Monitoring

People

- Awareness Training
- Cross-Department Collaboration
- Role-Based Access
- Threat Intelligence Sharing

Technologies

- Unified Security Solutions
- Endpoint Security
- Network Segmentation
- Advanced Analytics and AI

Mono-Vendor Versus Multi-Vendor Approach

Mono-Vendor

Pros

- Simplified Management
- Seamless Integration
- Unified Support

Cons

- Vendor Lock-in
- Limited Customisation
- Single Point of Failure

Multi-Vendor

Pros

- Flexibility in Customisation
- Reduced Risk of Lock-in
- Innovation

Cons

- Integration Challenges
- Complex Support Structure
- Higher Costs

Seamless Communication

Adaptability to Change

Cost Efficiency

Ecosystematic Approach to Cybersecurity

Collaborative Defence

Shared Intelligence

Holistic Security Posture

Unified and Centralised System

Centralised Monitoring

Streamlined Incident Response

Cost Efficiency

Comprehensive Security policies and practices

Increasing IT-OT Convergence

Integration Increases Risks and Complexities of Risks

Comprehensive and Holistic Cybersecurity Strategies and Solutions are Essential

Together We Build A Safer World

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