



- Do you need lifecycle plans developed by experts from the best available information?
- Do you need recommendations based on multiple analysis?
- Do you need recommendations for plant hierarchy and equipment organized by system criticality?
- Do you want reports which deliver all assessment results along with associated recommendations?
- Do you need a consulting service which provides recommendations to mitigate risks and help improve maintenance plans?



Industrial automation lifecycle consulting services

Solution architecture







AVEVA System

Platform









SE legacy Automation System



3rd Party Systems





(incl. Safety)

SE legacy Motor Management



3rd Party Motor Management

These consulting services performed by Schneider Electric service engineers helps identify risks to the reliability and maintainability of industrial automation equipment.

Why it matters?

Improve uptime and reduce the maintenance costs:

- Reduce unplanned downtime and maintenance costs due to obsolescence
- Less repair time and optimized maintenance spare parts inventory
- Avoid possible downtime caused by outdated software and firmware Improve the impact of their maintenance plans with:
- Assessments based on credible and up to date information
- More robust analyses, based on multiple criteria
- Recommendations from our experts

- Do you need new cutting-edge technologies based on the latest motor management platforms?
- Do you want to be ready for advanced diagnostics and monitoring, including remote access?
- Do you need implementation management that scans the full solution scope including consulting, conversion and set up, mechanical adaption, startup, and commissioning to ensure upgrades are interoperable with existing systems?
- Do you need proven tools and capabilities with implementation services delivered by a certified, experienced team?



Motor management upgrade

Solution architecture

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Motor Managemen Modernization



Remote Asset Management

Edge Con





TeSys Island



SE legacy Moto Management



3rd Party Motor Management

Renewal of motor management equipment, by extending the life of or replacing existing devices and installing latest generation devices to ensure operational continuity with limited cost and risk.

Why it matters?

Flexibility:

- Upgrade plan developed to meet specific constraints
- Upgrade plan adaptable to site specific needs and priorities.
- Choice of solution providers

Digitization:

 Access to new possibilities in energy efficiency and asset management

Tangible benefits:

- Reduced risk and time involved in motor management upgrades
- Lower total cost of ownership
- Extended lifespan which helps limit investment

- Do you need to upgrade your automation systems to Industry 4.0 technologies with the latest generation Modicon PLC platforms?
- Do you need easy integration with our IoT-enabled EcoStruxure Plant architecture?
- Do you want to access proven tools and capabilities developed over numerous PLC upgrade and migration projects, from both Schneider Electric or competition installed base?
- Do you want implementation services delivered by a certified, experienced team?
- Do you need cybersecurity and robustness standards including secure communication protocols, IEC 62443 Conformance and Achilles Level 2 conformance?



Solution architecture

















EcoStruxure Control Expert



Modicon M580

Maintain or upgrade your edge control platforms to the latest IIoT-ready technologies while ensuring operational continuity and limiting cost and risk

Why it matters?

Flexibility

- Choice of upgrade solutions
- Solutions adaptable to your site specific needs and drivers
- Choice of solution providers

Tangible benefits

- Reduced risk and time involved in PLC upgrades
- Enabler for secure digital transformation
- Lower total cost of ownership

Catch up with cybersecurity best-practices

- Situational awareness for intuitive operation
- Enhanced robustness and protection
- Centralized and simplified administration and management



Petroleum pipeline, Canada Station PLC modernization and migration

Customer challenge

- Maintenance issues with obsolete Rockwell PLC-5s
- Maintaining legacy communications Modbus Plus, PLC-5
- Risks in merging applications
- Minimal downtime with changeover with 12-hour outage window

The solution

- Flawless changeover well within outage window
- System improvements higher availability
- Standardization benefits
- Lower total cost of ownership

"We were able to complete the job within the 12 hours allotted, and what is more impressive is the fact we didn't have a single wiring issue, nor did we require any program modifications."

Customer Control Systems Technologist

Learn More

- Do you need to enhance protection level by adding network security and perimeter security layers?
- Do you need to manage access to operations systems and information through network and physical controls?
- Do you want specific controls that are part of the operations systems to help provide ongoing protection?
- Do you need active processes to monitor the operating environment to detect and communicate threats?
- Do you want capabilities and systems support rapid response to cyber incidents to contain and mitigate attacks?



Cyber-secure brownfield plant automation architecture

Solution architecture





Edge Control



Enhanced Ethernet network and perimeter security to provide better security protection. This solution from our technology partner integrated in our Harmony Edge Box provides these features with minimum impact to existing architectures.

Why it matters?

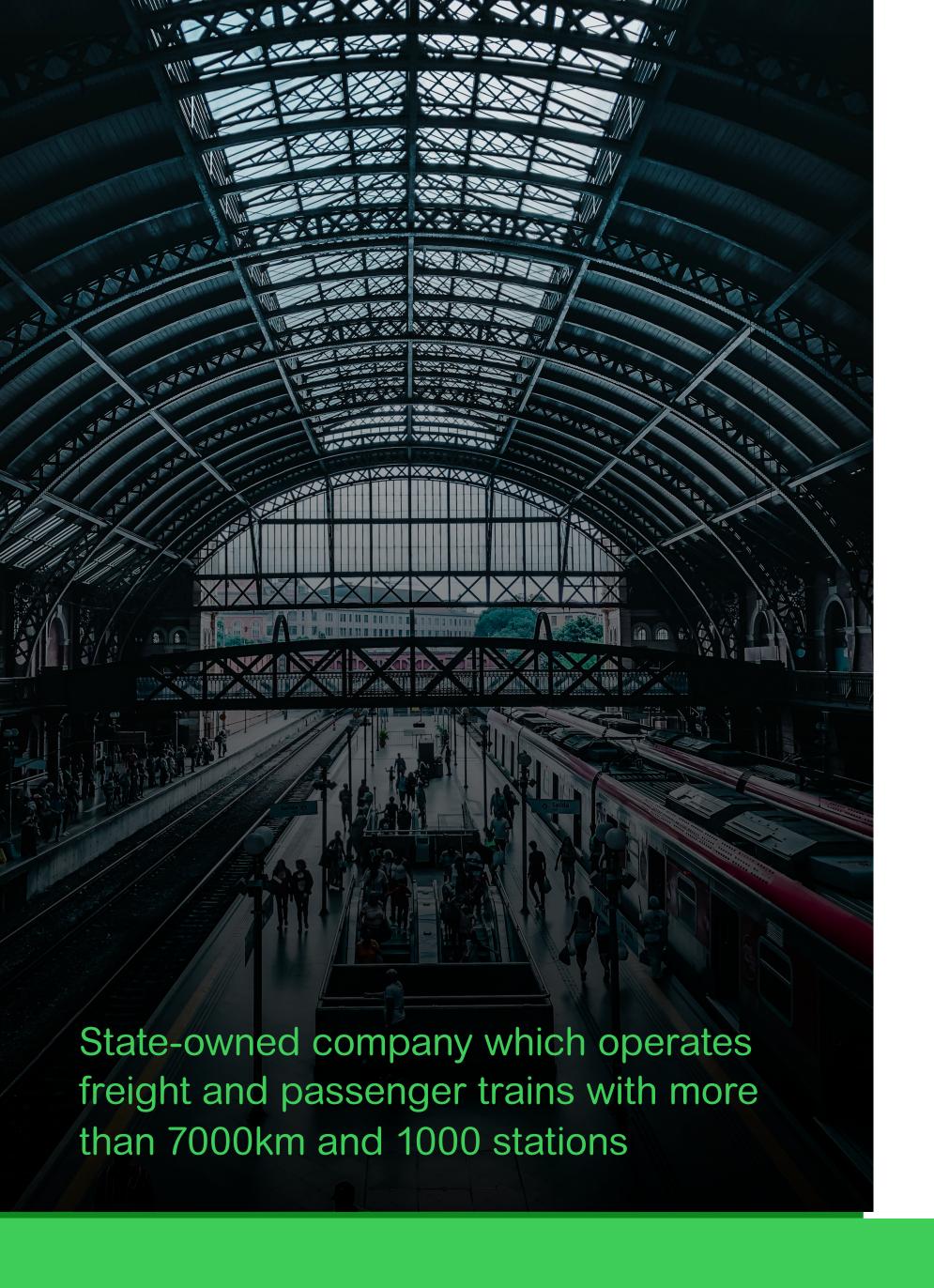
System security to help protect data and assets

- Help ensure business continuity
- Reduced risk of security attack
- More secure plant operations

Significant improvements in plant security protection with minimum impact to existing network architectures and automation devices.

Compatible with a holistic approach to a location's security plan

- Helps meet security standards and comply with regulations.
- Help avoid cyber issues from affecting factory/brand image
- Valued by cybersecurity conscious consumers



Brownfield Installations

Cyber-attacks on Industrial Control Systems are becoming more prevalent. These systems are generally easy targets for attackers due to their extended life expectancy and their dependence on legacy technologies. Many systems did not consider cybersecurity during their conceptual definition and render themselves vulnerable to even the most basic attacks.

This solution focuses on brownfield installations, where the migration of installed base PLCs or network infrastructure is not possible in the short term. We are proposing a solution with a minimum impact at the level of existing network infrastructure and zero configuration of existing automation assets.

Schneider Electric has selected IEC 62443 as its core cybersecurity standard and provide Transportation infrastructure operators with end-to-end cybersecurity surrounding its digital solution as part of its cybersecurity strategy.

Customer benefits

- Fast implementation
- Quick return on investment
- Scalable solution
 - Learn More

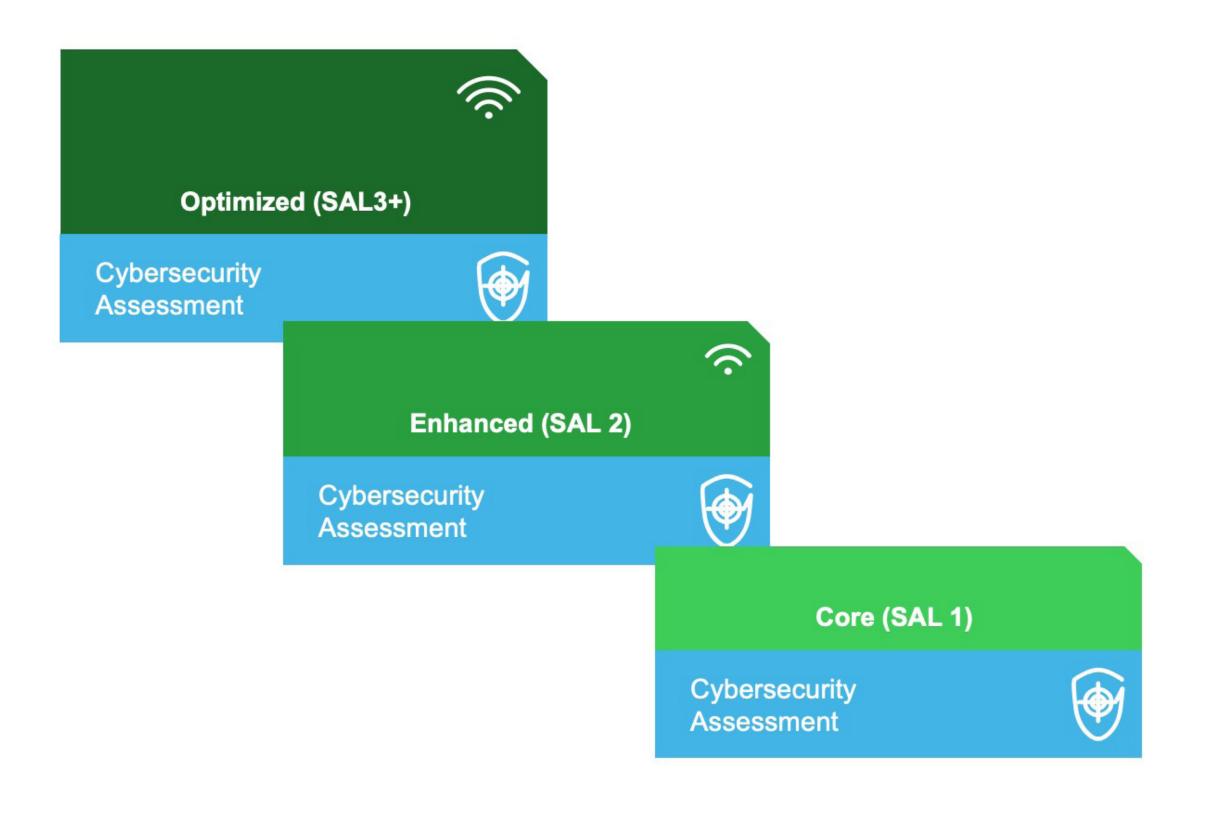
- Solution open to OT and IT
- Able to connect disparate automation systems and collate usage information for an analytics application

- Do you need to develop a timeline and plan to comply with cyber regulatory requirements?
- Do you need an assessment approach that is scalable and can adapt to different maturity levels?
- Do you need help deciding where to start in prioritizing future cybersecurity initiatives?
- Do you want expert consultation to help you develop a prioritized plan for cybersecurity based on resources available?
- Do you need an expert analysis to identify and prioritize gaps and recommended steps to close them?



Extended Cybersecurity Assessment Service (CAS)

Solution



The CAS evaluates current your present status versus cybersecurity industry standards; the output is a detailed report completed by an OT cybersecurity expert that identifies your gaps and defines a tangible plan to close them.

Why it matters?

- The assessment is completed by an experienced expert that has both OT /IT and cybersecurity knowledge
- The assessment is vendor-agnostic and can be completed standalone or part of a larger project
- The recommendation roadmap helps you to maximize your cybersecurity budget
- Assessment is aligned to the globally accepted OT cybersecurity standard (IEC 62443)



To learn more about how investment continuity bridges the gap between old and new technologies so they can continue working together for the entire life of the process visit

se.com/industrial-automation-solutions













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