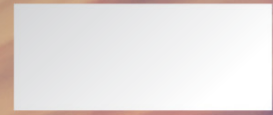# CYIENT
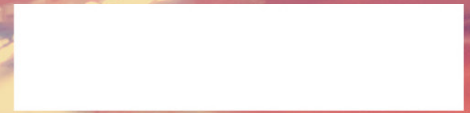
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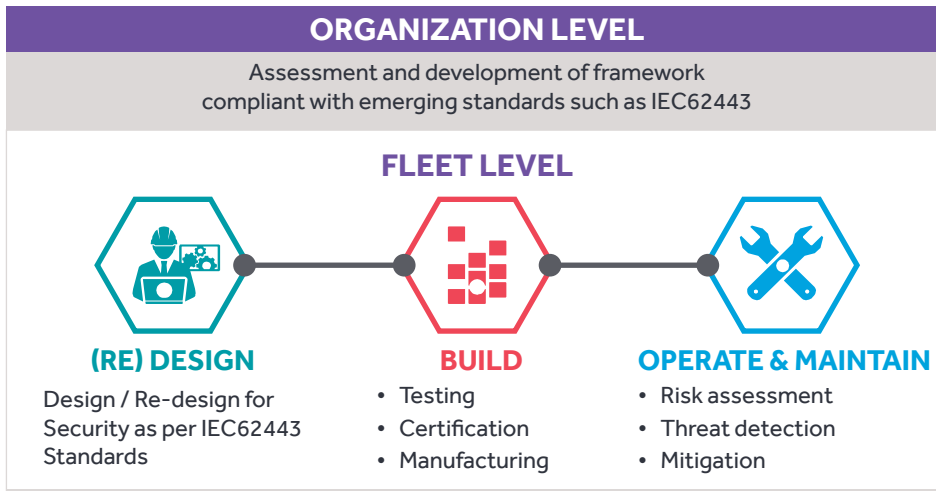# CYBER SECURITY SOLUTIONS FOR SAFER RAILWAYS

Cybersecurity solutions for safer and more secure rail products, systems and networks

The increasing digital evolution and a high number of cybersecurity incidents in rail need to be addressed by the industry on priority to ensure the core premise of safety. The nature of rail transportation amplifies the need for a domain-specific solution that enables implementation of cybersecurity, thereby enhancing passenger and employee safety.

Cybersecurity Solution for your Operational Technology Systems

Cyient, together with our partner ecosystem, offers a comprehensive cybersecurity solution that can be leveraged at an organization level as well as fleet-level for new and legacy fleet of rolling stock and signaling systems as illustrated below:

ORGANIZATION LEVEL

Assessment and development of framework compliant with emerging standards such as IEC62443

FLEET LEVEL

(RE) DESIGN

Design / Re-design for Security as per IEC62443 Standards

BUILD
- Testing
- Certification
- Manufacturing

OPERATE & MAINTAIN
- Risk assessment
- Threat detection
- Mitigation

Cyient's solution aims at ensuring cybersecurity compliance at sub-system, system and network levels. Our rail engineering knowledge, coupled with our partner's cybersecurity expertise, enables us to take design ownership of sub-systems and systems and ensure compliance with the standards. Our threat detection solution runs in a fully passive and non-intrusive mode and ensures that malicious activities on the network are detected and alerts are generated with actionable insights, enabling effective remediation.

The Cyient Edge

Rail Domain Experience: Cyient's rich domain knowledge, owing to over 16 years of experience working on 350+ global rail projects across the design-build-maintain value chain of rolling stock and signaling assets, enables us to understand the critical design requirements and develop a solution that is customized to suit your needs.

Robust Eco-System of Global Partners: Best-in-class partnerships and affiliations with cybersecurity experts and safety boards providing consulting, standards, and products to deliver scalable and compliant solutions.

Engineering and Process Expertise: Over the past 26 years, Cyient has catered to various safety-critical industries and has built a wide range of competence, enabling us to address a diverse set of requirements and provide solutions that leverage best-in-class technology and industry standards.

Leveraging synergies for a holistic solution

Cyient collaborates with OEMs, operators, and suppliers to ensure seamless implementation of cybersecurity across rolling stock and signaling systems without compromising efficiency and safety. Our value proposition, together with our partner ecosystem, to provide a holistic, cost-competitive, one-stop Cybersecurity solution assures the following key business benefits:

Business Benefits

Security

Rail specific technology supporting a wide range of rail protocols and multi-vendor assets, ensuring security against evolving cyber threats to rolling stock, signaling and control networks

Compliance

Product, system and network level resilience to cyber threats and compliance to emerging cybersecurity standards, across the design—build—maintain life cycle

Competitive

Competitive advantage in an increasingly complex market environment through leading-edge technology and comprehensive solution

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