IRM INFORMATION RISK MANAGEMENT
•ALTRAN GROUP

SERVICE OVERVIEW

OT SECURITY.

ALTRAN

SECURE CYBER **UNLOCK OPPORTUNITY**

IRM**SECURITY**.COM

INTRODUCTION

Meet Industry 4.0

The Industrial Internet, Industry 4.0, Operational Technology are all terms that refer to the changing technological landscape where the Industrial Age meets the Information Age.

Bringing together digital technology with domain expertise across industries such as aviation, energy, automotive, healthcare, and transportation can achieve a potential 20% increase in performance. However, with the wider adoption of Operational Technology new threats from a Cyber Security perspective need to be addressed.

Operational Technology systems have often been developed and implemented as standalone air gapped systems without having to consider a range of threats from a Cyber Security perspective. As OT becomes more connected, Cyber Security becomes an ever pervasive risk that companies must assess, understand and address.

Where IT meets OT

Altran's strong pedigree in engineering combined with IRM's extensive Cyber Security expertise delivers a capability to allow businesses to assess, identify and ultimately reduce cyber risk in OT environments. Our approach provides a comprehensive set of services that will allow businesses to manage an emerging threat to the OT world.

We will deliver two key services in helping our clients to manage and reduce risk in their OT environments:

+ Operational Technology Cyber Risk Assessment

+ Operational Technology Technical Security Assessment

OT CYBER RISK ASSESSMENT

Overview

Altran IRM's Operational Technology Cyber Risk Assessment provides our clients with a systematic approach to evaluate existing standards, methodologies, procedures, and processes that align policy, business, and technological approaches to address Cyber Security risks, and supports mitigation of Cyber Security attacks in OT environments.

Our approach draws on the IEC 62443 standard and in particular, assessing the seven foundational requirements associated with control systems as follows:

A	IDENTIFICATION & AUTHENTICATION CONTROL (IAC)
B	USE CONTROL (UC)
C	SYSTEM INTEGRITY (SI)
D	DATA CONFIDENTIALITY (DC)
E	RESTRICTED DATA FLOW (RDF)
F	TIMELY RESPONSE TO EVENT (TRE)
G	RESOURCE AVAILABILITY (RA)

The risk assessment seeks to understand threats and vulnerabilities present in Operational Technology focussing on safety as the most critical impact as illustrated in the diagram below. The output from the risk assessment is a report detailing identified risks and a set of recommended countermeasures designed to reduce risk in the target OT environment.

Our recommendations will focus on cost effective reduction of your cyber threats that delivers improved safety, availability, system integrity and confidentiality.

OT SECURITY ASSESSMENT

Overview

RM's approach to Operational Technology security assessment from a technical threat perspective involves a comprehensive review of systems architecture through to focused penetration testing. IRM will carry out a number of technical assurance activities:

System Security Architecture Assessment

+ Review of security goals, objectives, and requirements;
+ Review of existing security architecture and design documentation, including physical and logical designs, network topology diagrams and device configurations;
+ For each functional domain included in the scope of the engagement IRM will evaluate what technical security controls are present in the security infrastructure;
+ Evaluate the effectiveness of each technical control at providing the designated security function;
+ Evaluate the security architecture for scalability, performance, and manageability;
+ Identify vulnerabilities in the security infrastructure.

Threat Modelling

+ Understand what cyber threats would potentially be able to exploit vulnerabilites in the MWC underlying operating system as well as active testing of those threats.

Penetration Testing

+ Following a controlled testing methodology that is NCSC CHECK approved.

ASSESS, IDENTIFY & REDUCE RISK

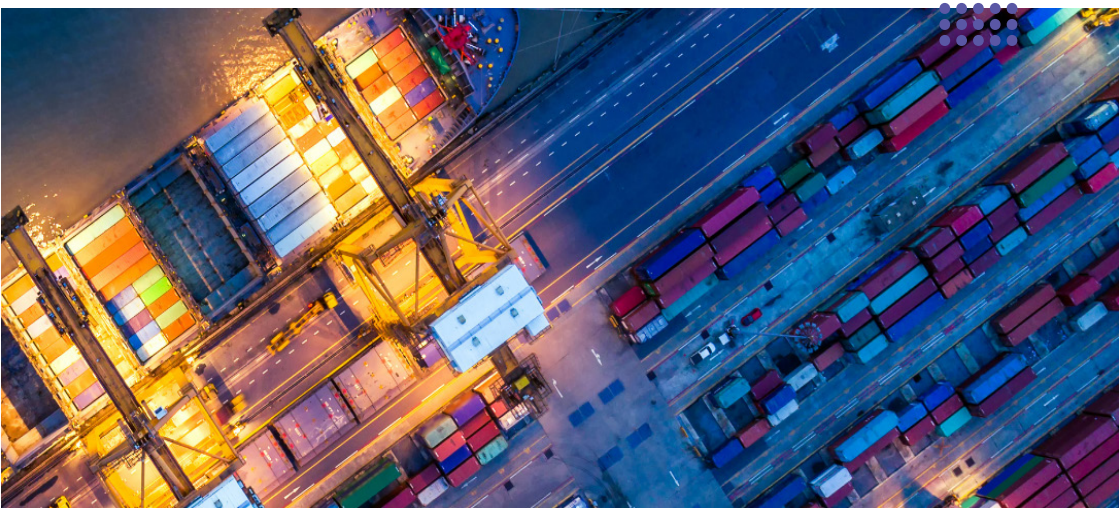
INDUSTRIAL AUTOMATION & CONTROL SYSTEMS

1. Safety/Control
2. Availability
3. Integrity
4. Confidentiality

PRIORITY ORDER

INFORMATION TECHNOLOGY SYSTEMS

1. Confidentiality
2. Integrity
3. Availability



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Think cyber.
Think security.
Think data.

For more information on our OT Security Services please contact
hello@irmsecurity.com

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