

RAM²

IT/OT Cyber Security Platform for Continuous Risk Monitoring & Management

Critical infrastructure and industrial environments can no longer be air gapped. Digitization processes, expedited by the global pandemic and rapidly transforming supply chains, expose the operational systems and production floors to an ever-growing variety of cyber and digital risks. Protecting such complex multi-vendor, multi generation IT-IoT-OT environments requires a comprehensive understanding of the operational structure, the technology, processes, data flows and the effectiveness of existing security controls.

OTORIO's RAM² was developed to help operational security teams handle this day-to-day challenge. RAM² collects, orchestrates, and analyzes multiple data sources present in the environment, It then builds a clear and accurate picture of your assets to deliver the most extensive and accurate asset inventory, including level 0 assets.

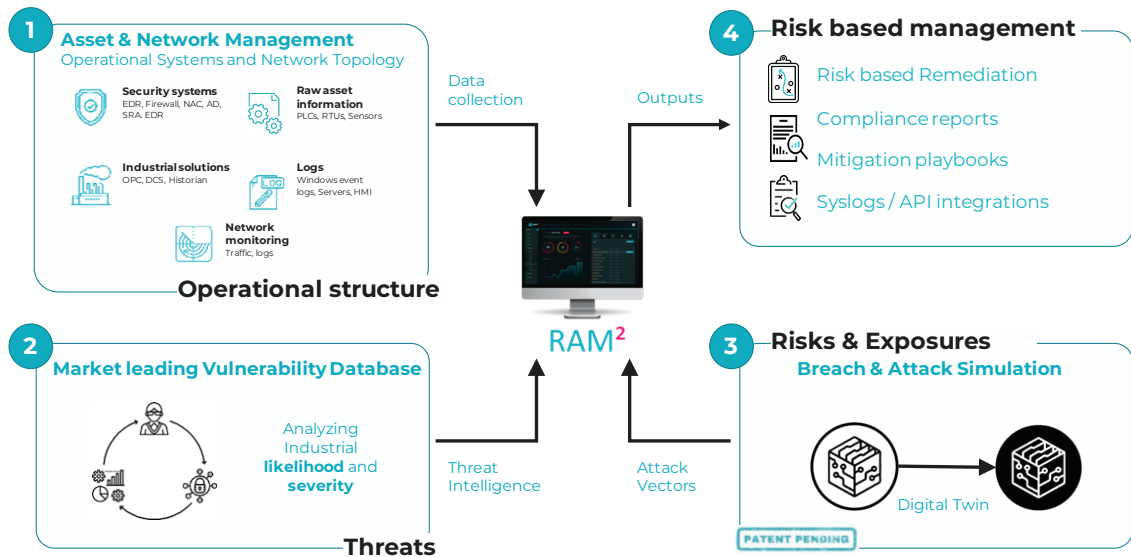
RAM² enables operational security teams to proactively address, manage and reduce cyber risks. Providing clear risk contextualization and business-impact-prioritization, RAM² reduces noise by up to 80% – eliminating alert fatigue. Finally, RAM² provides feasible mitigation playbooks, tailored for OT environments and based on existing security controls, making "Insight to Action" as easy as possible.

RAM²'s unique, effective solution stands out even more in large, multi-site, multi-vendor environments. It is the only industrial native tool that can seamlessly scale, continuing to provide a similar operational effectiveness even as sites, vendors, assets, and complexity multiply.

Benefits

- The most extensive and accurate asset inventory, including level 0 assets
- Proactive reduction of cyber risks
- Powerful noise reduction, cutting alert count by up to 80%
- Integrates with any device, tool & system on the production floor
- Built-in assessment of Risk, Compliance, and Governance
- Highly scalable for complex, large-size environments
- Automated OT-focused segmentation assessment

RAM² Flow



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The leading industrial-grade, continuous risk management platform



Unmatched Integration Capacity

One of RAM²'s sources of strength is its ability to integrate with other tools. RAM² integrates with a wide variety of tools and systems, including industrial equipment (OPC, DCS, Historian, MES), engineering files, firewalls, NACs, network monitoring (IDS/IPS), end-point protection, secured remote access and Active Directory. Installation starts with connecting RAM² to the various data sources and having the RAM² algorithms build a patent-pending Cyber Digital Twin of the customer's environment.

Rich, Contextual Asset Inventory

The Cyber Digital Twin (CDT) is a live representation of the actual customer environment and assets, built using all available and accessible data. To build the CDT, RAM² aggregates, enriches and correlates the data into one cohesive set. It then adds operational context, i.e. production cell, manufacturing process etc. With this, RAM² can produce an accurate and contextualized asset inventory.

Proactive Risk Evaluation & Management

Leveraging its unique, non-intrusive Breach and Attack Simulation (BAS) engine, RAM² presents all the risks affecting the identified assets and their topology (i.e. segmentation assessment). The solution then calculates both the likelihood and the severity of each risk within the operational context and creates a prioritized list of risks to manage. Using its distinctive datasets and advanced correlation algorithms RAM² reduces the number of alerts by up to 80%, making proactive risk management a feasible task.

Tailored Mitigation Playbooks

For every prioritized risk, RAM² provides a tailored mitigation playbook. RAM² playbooks are optimized for industrial environments where there are many constraints and where safety and productivity often take precedent. The playbooks are easy to execute and leverage the existing security controls already present within the environment, e.g. by recommending specific improvements in network segmentation.

Risk Scoring and Compliance Reports

RAM² provides multiple automated and on demand reports. Compliance reports, based on standards and frameworks such as IEC 62443, NIST and NERC CIP, deliver an overall compliance score, as well as a score per specific regulation/standard, with a clear view of all open compliance issues at the asset, process and site levels. Similar processes can generate tailored Governance reports based on customer-specific policies and rules. Point-in-time risk assessments or status reports can also be generated and tailored to the customer's reporting standards and needs. Operational reports such as network segmentation analysis are also available.

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Key Features

Contextual Asset Inventory

- Simplified, non-intrusive data collection
- Discovers all assets within the OT network
- Maps assets to operational processes
- Monitors changes in asset inventory
- Level 0 assets are made visible

Industrial Vulnerabilities Assessment

- Distinct OT vulnerabilities discovered by OTORIO's research
- Multiple-sourced CVEs
- Maps vulnerabilities to assets
- Correlates severity with operational impact
- Presents feasible mitigation steps

Network Segmentation Assessment

- Identifies segmentation gaps
- Delivers intuitive and prioritized action items
- Reduces the attack surface

Detailed Dashboards

- Comprehensive security posture overview
- Compliance governance dashboard
- Granularity - from asset to business unit to enterprise level

Reports

- Rich and granular reports
- Customizable for different needs

Prioritized Cyber Risk Insights and Playbooks

- Cross-site research-based insights
- OTORIO's proprietary algorithms
- Feasible mitigation playbooks
- ICS ATT&CK MITRE based insights

Risk Assessment

- Identify host, network and IAM gaps and exposures
- Prioritized gaps based on risk calculation including impact analysis and various threat levels

Continuous Compliance Tracking

- Simplify compliance governance
- Dynamic and granular compliance score
- Compliance fulfillment recommendations
- Multiple standards like NIST 800-82, IEC-62443, NERC CIP

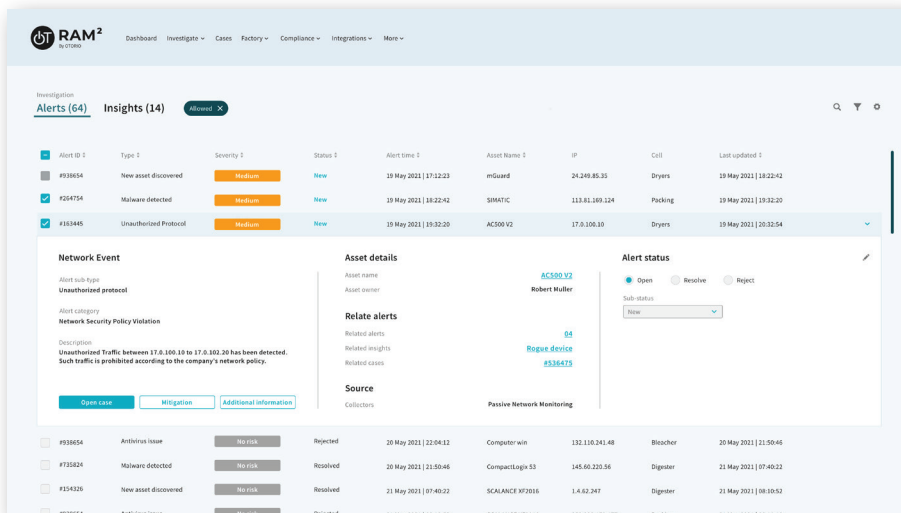
Case Management

- Open and assign cases from insights
- Prioritize tasks from alerts and insights
- Monitor risk mitigation progress

Integrations

- Endpoint Detection and Response (EDR)
- Firewalls
- IDS/IPS
- Secured Remote Access
- IT SIEM/SOAR
- APM/CMMS
- Identity and access management
- Industrial Systems (OPC, DCS, Historian, MES and more)

Clear and Concise Reports



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About OTORIO

OTORIO delivers next-generation OT security and digital risk management solutions that ensure reliable, safe and efficient industrial digitalization. The company combines the professional experience of top nation-state industrial cybersecurity experts with cutting edge digital risk management technology to provide the highest level of protection to the critical infrastructure and manufacturing industry.