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REMUS™

OVERVIEW

REMUS™ (Risk Evaluation & Mitigation Using Simulacra) is a next-generation risk management platform designed specifically for the complexities of Operational Technology (OT). Built on proven hypergraph-based modeling developed at Georgetown University, REMUS provides a “Logical Twin” approach to security. By mapping the intricate relationships between assets, configurations, and threats, REMUS moves beyond simple scanning to provide context-aware intelligence. It allows industrial operators to visualize their risk posture in real-time, validate security changes outside the production environment, and detect sophisticated adversarial behavior without risking operational uptime.

DIFFERENTIATING FEATURES:

- **Hypergraph-Driven Context:** While standard tools see assets in isolation, our hypergraph technology models the relationships and behaviors between systems. This enables context-aware risk identification, ensuring focus on the vulnerabilities that actually matter to your production environment.
- **Zero-Risk Validation:** REMUS allows teams to validate upgrades and mitigations in a virtual model before deployment. You can see the impact of a patch or configuration change before it ever touches your live production environment.
- **Adaptive Operational Resilience:** REMUS doesn’t just alert, it adapts. By combining internal asset data with external threat intelligence, it provides a continuous monitoring loop that supports adaptive control, allowing your security posture to evolve and scale alongside emerging threats.
- **Lightweight yet Hyper-Scalable:** Unlike heavy, intrusive legacy solutions, REMUS utilizes a novel modeling approach that is lightweight enough for sensitive OT gear but scalable enough to map massive, globally distributed industrial infrastructures.
- **Autonomous Vulnerability Intelligence:** Move from manual searching to automatic detection. REMUS autonomously highlights new vulnerabilities and provides specific, actionable mitigation recommendations, reducing the “alert fatigue” common in security operations.

Learn more & request a demo: markonsolutions.com/REMUS

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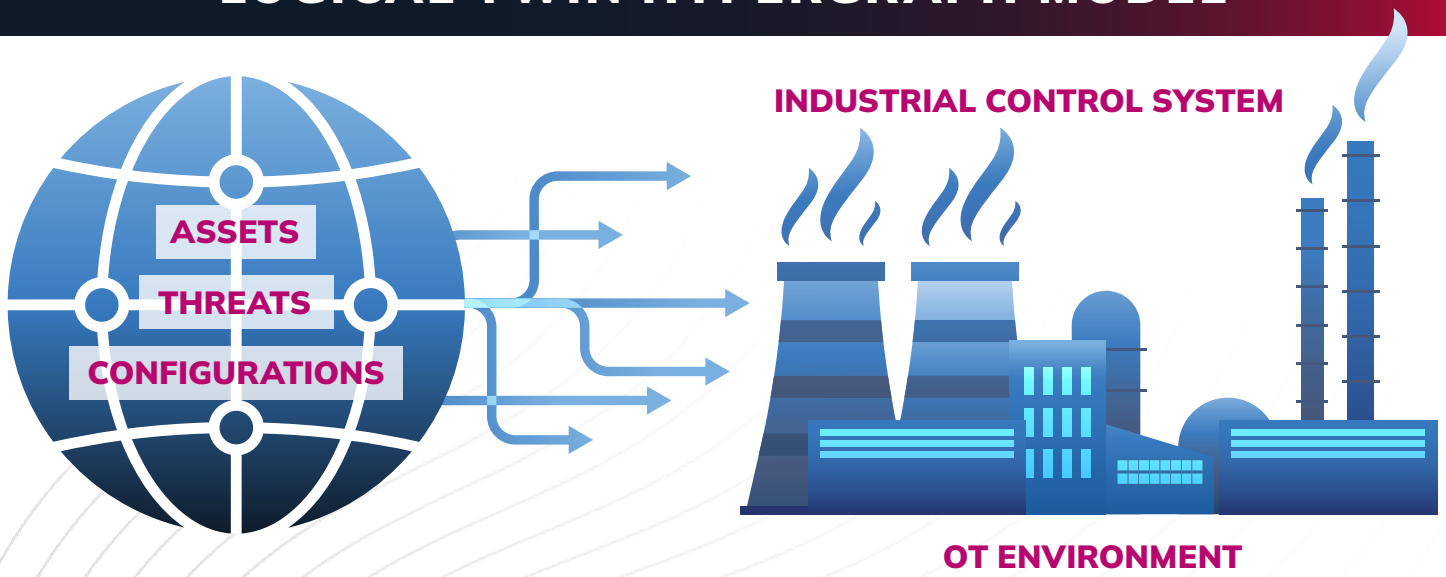
REMUS™

NEXT-GENERATION OT RISK MANGEMENT & LOGICAL TWIN FOR CONTEXT-AWARE SECURITY

LOGICAL TWIN HYPERGRAPH MODEL



Hypergraph-driven Context

Models relationships & behaviors for context-aware risk identification

Zero Risk Validation

Test changes in a virtual model prior to deployment

Adaptive Operational Resilience

Applies dynamic monitoring & adaptive threat response

Automated Vulnerability Intelligence

Automatically detects & prioritizes new vulnerabilities

LIGHTWEIGHT & HYPER-SCALABLE
Efficient & Scalable for OT Environments

CONTINUOUS RISK MANAGEMENT
Evolving Defense with Real-time Intelligence

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