An adaptive digital twin for agile services over the computing continuum

MIRANDA

A framework for collaborative cyber-security operations over service supply chains

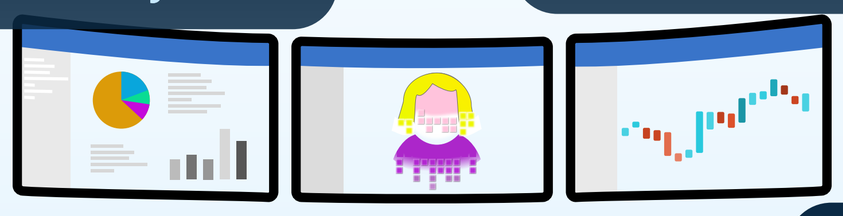
Form hypotheses, perform analyses and predict what may happen in complex, heterogeneous, and interconnected ICT systems

2 commercial platform integrations

Logstail Security Suite
Sphynx SPA
+ Open-source Community Edition

Actionable Cyber Threat Intelligence

MISP, NVD/CVE, OpenCTI, OWASP
OSINT collection
Structured, traceable intelligence stories

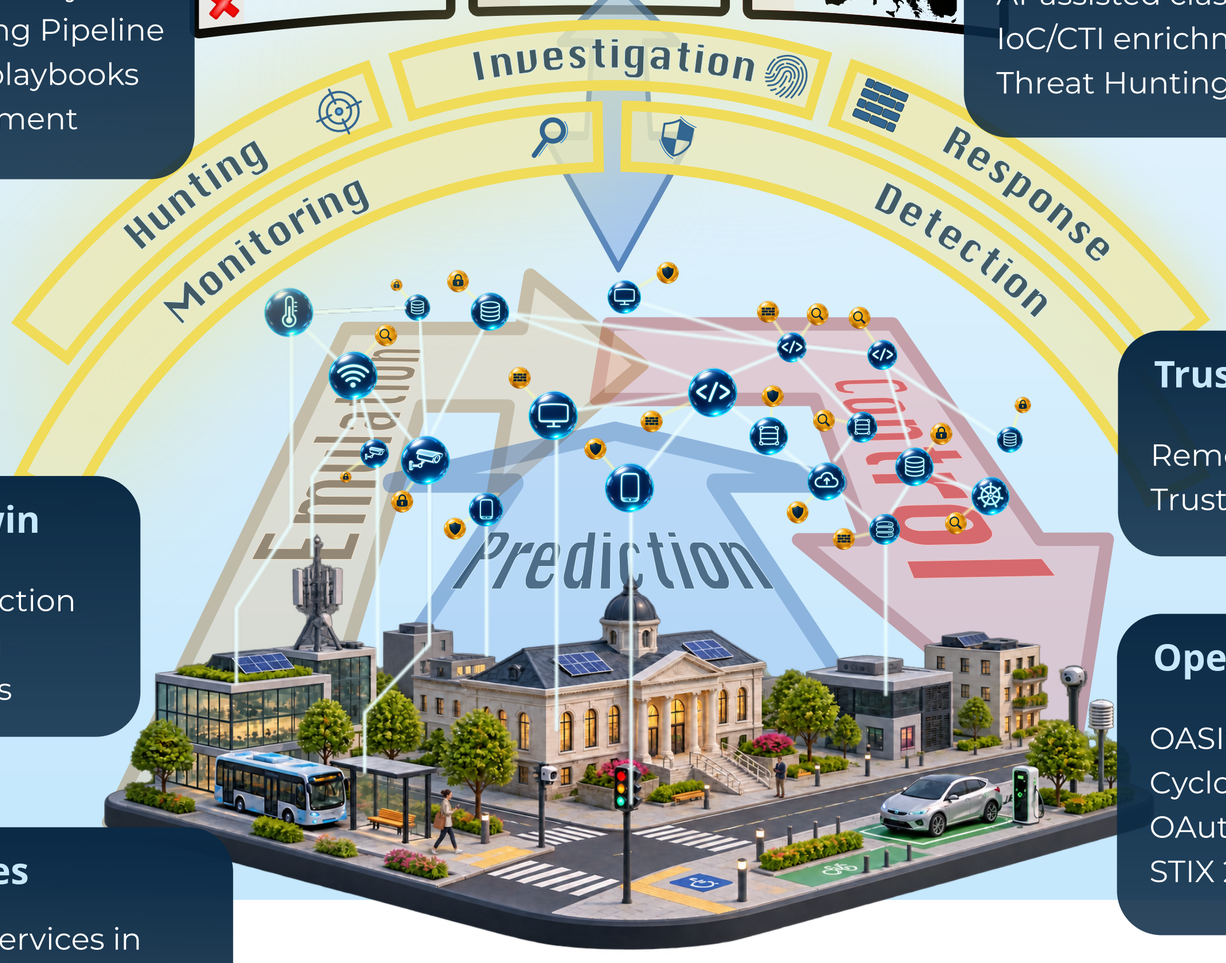


Adaptivity

Context Discovery
Data Handling Pipeline
AI-enabled playbooks
Policy refinement

Detection & Investigation

Real-time anomaly detection
AI-assisted classification
IoC/CTI enrichment
Threat Hunting



Digital Twin

Traffic prediction
Sandboxing
Attack paths

Trusted operations

Remote attestation
Trust Assessment

Open interfaces

OASIS OpenC2
CycloneDX xBOM
OAuth2
STIX 2.1

3 Use Cases

Smart City services in Wolfsburg, Genoa, Athens

Key benefits

- Investigate with Context
  Faster investigation
- **Test Before Acting**
  Emulation and mitigation testing
- **Integrate Existing** *Operations*
  SIEM, SOAR and CTI interoperability
- **Built for Complex Ecosystems**
  Coordinated and collaborative operations
- **Adaptive by Design**
  Adapt to service compositions and evolving threats
- **Anticipate Attack Paths**
  Predict lateral movements and potential targets

Factsheet

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End: 31 August 2027
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Consortium

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