
NTT DATA
splunk>
a CISCO company
Autonomous Security Operations Center (SOC) Services
Powered by Splunk Cisco

Security teams must investigate alerts quickly and accurately while minimizing false positives. The Autonomous SOC Services powered by Splunk Cisco uses agentic AI to combine real-time detection, autonomous investigation and controlled response. AI agents reconstruct attack paths and recommend or execute remediation in seconds, while human analysts remain in control.

This delivers high-quality investigations with up to **99% accuracy**, **70% faster investigation** and **60% faster response and scalable operations** within enterprise governance requirements.

Security teams are under growing pressure

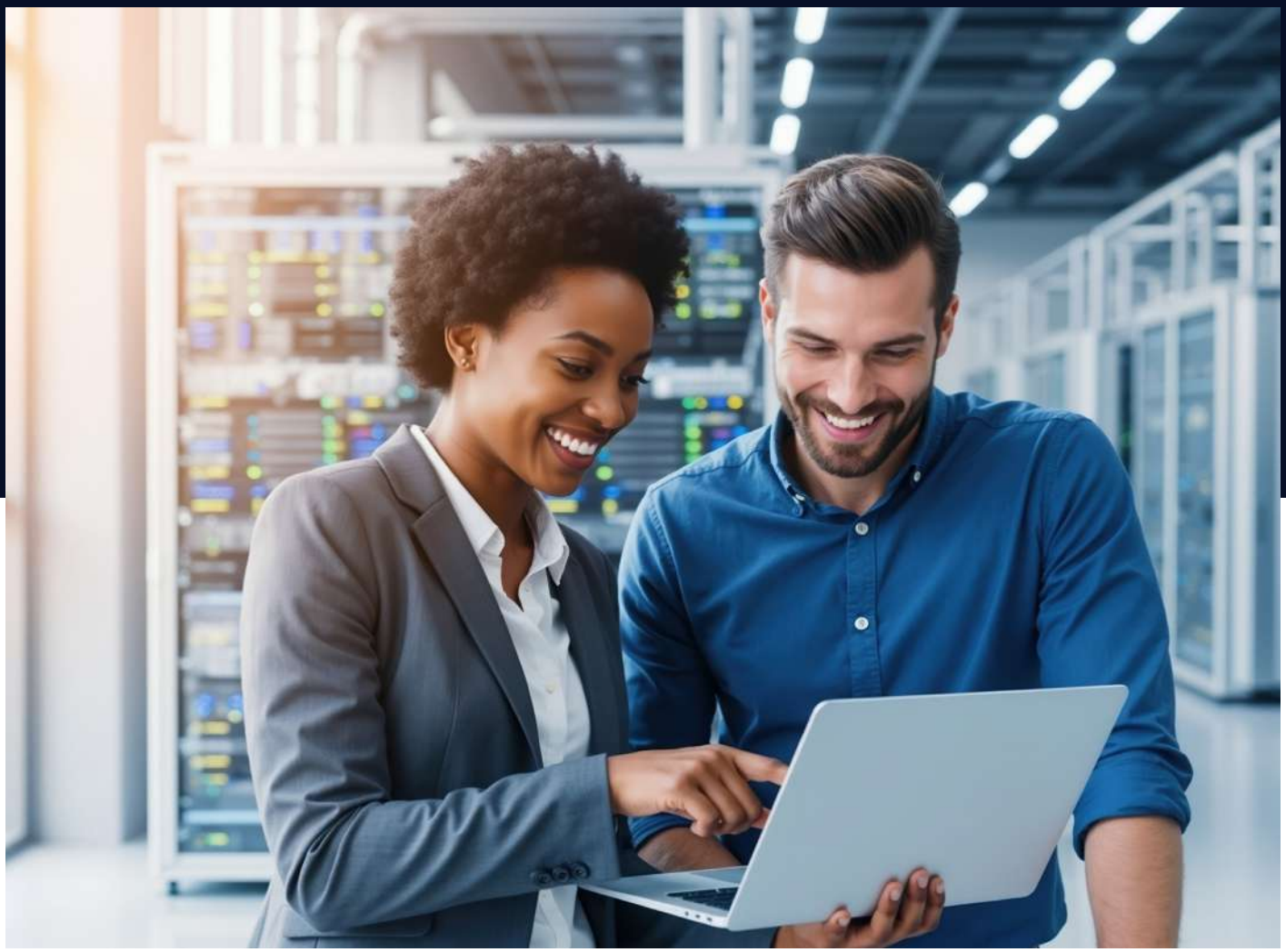
In many organizations, the security operations center (SOC) operates under constant strain. Analysts move across disconnected systems to validate alerts, collect evidence and repeat manual investigation steps.

Experienced analysts spend time on triage and evidence collection instead of advanced threat analysis. Compliance teams require structured case documentation for major events, adding reporting overhead.

The challenge is not detection but the time, complexity and inconsistency of investigation and response.

As environments expand across cloud, software as a service (SaaS), hybrid infrastructure and distributed identities, investigations demand greater cross-system correlation. At the same time, attackers are using automation and AI to scale.

Security operations must improve speed and precision without expanding overhead.



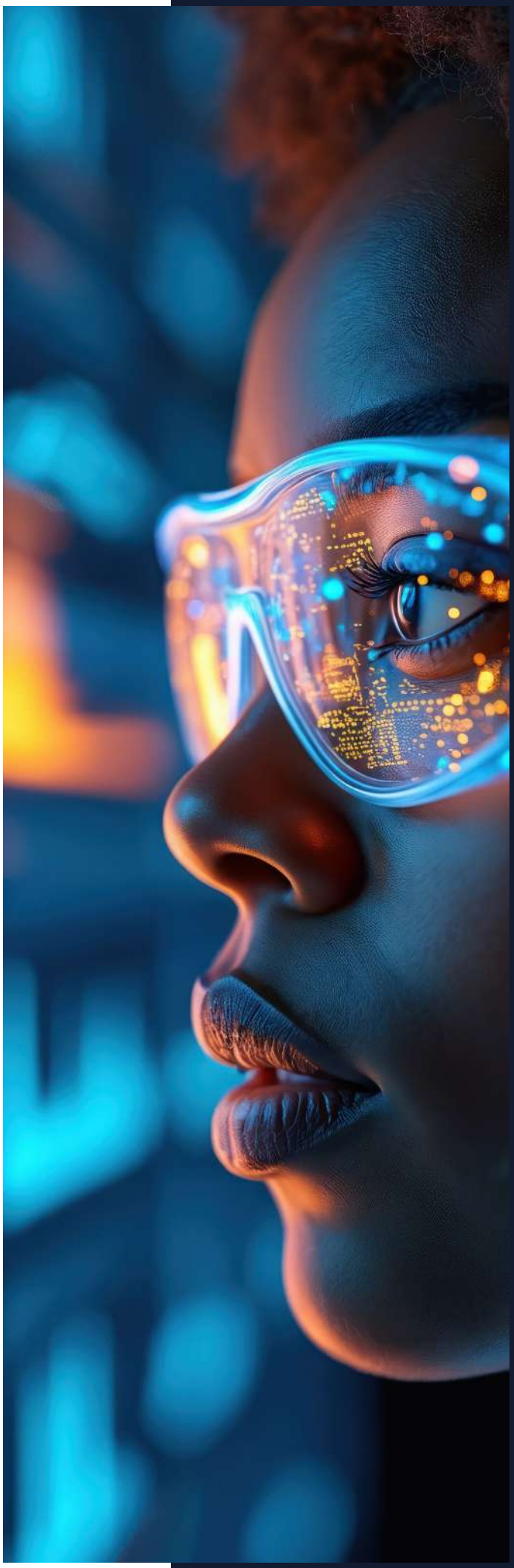
Infusing autonomy into the SOC operating model

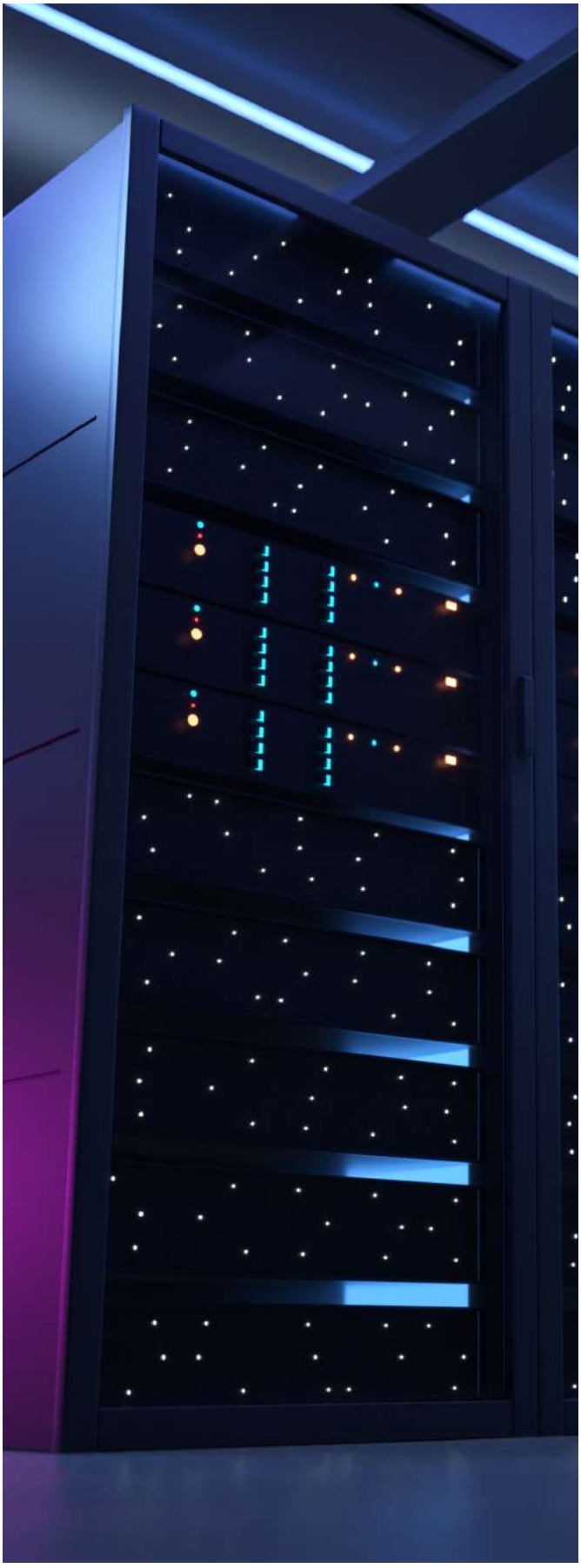
Autonomous SOC Services powered by Splunk Cisco applies autonomous investigation to high-risk alerts within a governed operating model.

This model brings together:

- Cisco Splunk for detection, correlation and risk-based analytics
- Agentic AI for autonomous investigation and response orchestration
- NTT DATA for governed deployment and operational delivery

This goes beyond alert automation to deliver structured, autonomous investigation with human oversight.





How AI agents investigate with human oversight

When Cisco Splunk detects a high-risk alert, agentic AI initiates a structured investigation.

Agentic AI executes multiple investigative tasks in parallel:

- Correlates related user and system behaviors
- Evaluates multiple attack paths simultaneously
- Reconstructs the full attack progression
- Distinguishes legitimate activity from compromise
- Produces a confidence-based verdict

Each case automatically generates:

- Documented evidence
- Clear reasoning and traceability
- Severity and impact assessment
- Recommended remediation steps

Instead of a manual investigation across disconnected workflows that takes hours of analysts' time, investigations are reduced to seconds.

The result is a consistent, repeatable and audit-ready process with human oversight.

Operational results at scale

Benefits for security teams

Reduced analyst fatigue

Tier 1 investigations are handled autonomously, allowing analysts to focus on higher-value threat analysis.

Consistent decision-making

Structured logic reduces dependency on individual expertise.

Accelerated mean time to detect (MTTD) and mean time to respond (MTTR)

Parallel autonomous analysis reduces exposure windows.

Stronger compliance alignment

Structured, traceable documentation supports frameworks such as the:

- General Data Protection Regulation (GDPR)
- Payment Card Industry Data Security Standard (PCI DSS)
- ISO/IEC 27001
- Network and Information Security Directive 2 (NIS2)
- Digital Operational Resilience Act (DORA)

Embedding agentic AI into SOC workflows delivers measurable improvements in performance:

- More than 80% of investigations are handled autonomously
- False-positive handling time is reduced by approximately 99%
- Response times are up to 40% faster

Autonomous response with defined controls

NTT DATA and Cisco Splunk enable an autonomous SOC model where response actions operate within a clear governance framework. Organizations establish approval thresholds, escalation paths and risk tolerance up-front, ensuring that autonomous actions execute only within the boundaries they define.

Following the investigation, agentic AI can recommend or execute remediation actions such as:

- Blocking malicious IP addresses
- Disabling compromised accounts
- Quarantining endpoints
- Reversing unauthorized changes

Responses may be fully automated, approval-based or selectively applied based on risk posture and regulatory requirements.

Automation increases speed while governance preserves control and human analysts retain oversight.

Built for today's threat environment

Attackers increasingly use automation and AI to scale reconnaissance, lateral movement and exploitation.

At the same time, security teams face persistent talent shortages and budget constraints — and it's just not practically possible to increase your analyst headcount to match increases in alert volumes, infrastructure growth or regulatory pressure.

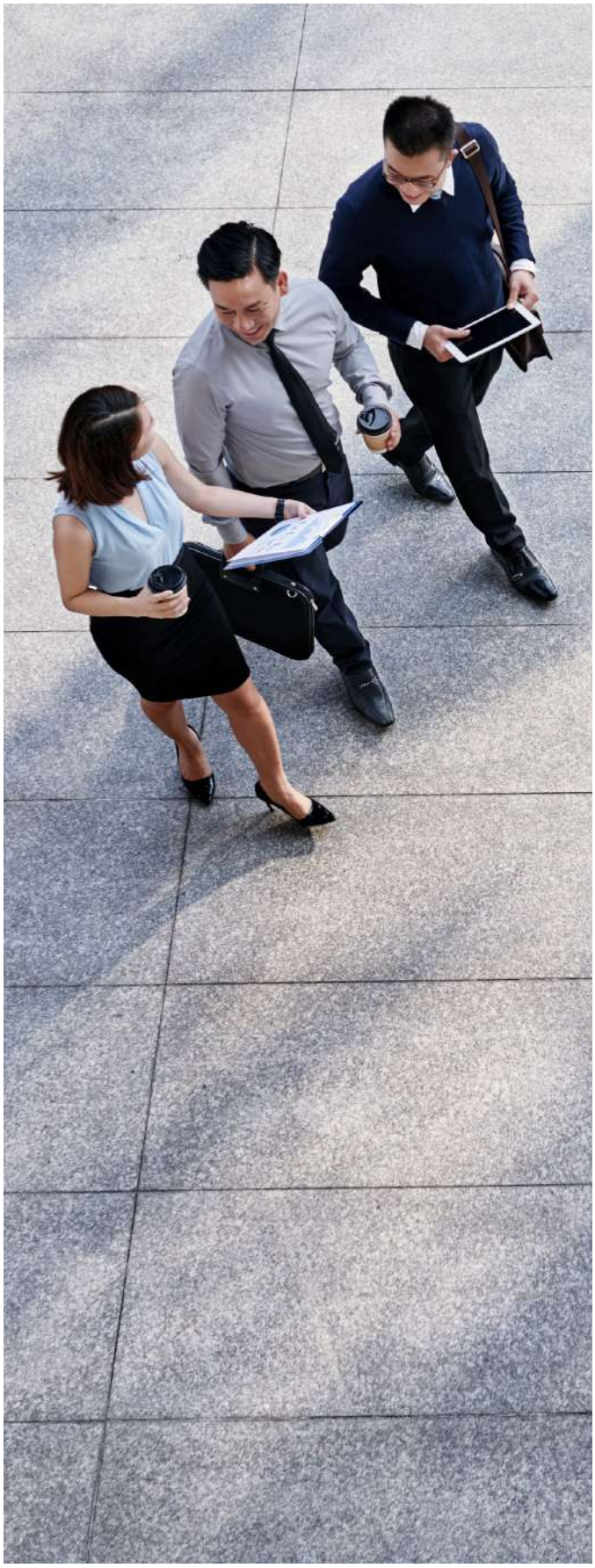
Autonomous SOC Services powered by Splunk Cisco allows you to expand your investigative capacity without linear staffing growth. Structured autonomy enables teams to manage higher alert volumes while maintaining consistency and accountability. This way, you can match attacker speed while maintaining structured oversight and accountability.

Why NTT DATA

NTT DATA delivers AI-powered security operations that are practical, governed, and built to work within your existing environment.

- 30+ years of managed security experience with global SOC coverage and local expertise
- Proven impact with 50% fewer false positives and 40% faster response times
- Certified Cisco Splunk and cybersecurity specialists with established SOC practices
- Agentic AI built into operations to automate investigation, support faster decisions, and maintain full governance

The result is resilient security operations with clear oversight, strong discipline and enterprise control.



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