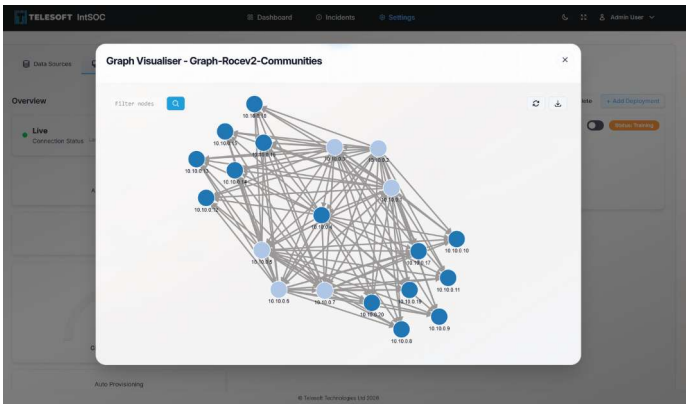
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USE CASE

AI-Powered Network Observability and NDR for Data Centres

Modern data centres are increasingly complex, high-performance environments where east-west traffic, virtualisation, distributed applications, storage networks and high-speed interconnects can make traditional network monitoring and security tools difficult to scale.

Telesoft Technologies' IntSOC provides a unified network observability and Network Detection & Response (NDR) capability designed specifically for high-performance data centre environments. Built to operate at native 400G speeds, IntSOC provides continuous visibility into network behaviour while using machine learning and AI to identify security threats, anomalous activity and emerging performance issues.



THE CHALLENGE

Data centre teams typically operate separate tools for network performance monitoring, security monitoring and capacity management. This can create visibility gaps, duplicated infrastructure and large volumes of telemetry that are difficult to analyse in real time. At the same time, conventional sampled NetFlow or third-party flow telemetry may not provide the granularity required to understand increasingly dynamic east-west traffic.

KEY DATA CENTRE USE CASES

» East-West Traffic Monitoring
» Data Centre Protocol decode e.g. RoCEv2
» Workload and Application Behaviour Analysis
» Lateral Movement Detection
» Command-and-Control Detection
» Network Performance and Pre-Failure Detection
» Capacity Planning
» High-Speed AI and HPC Networks
» Storage and Cluster Monitoring
» Microburst and Congestion Detection
» AI-Driven Detection

IntSOC applies machine learning and behavioural analytics to the network rather than relying solely on signatures or predefined rules.

EXAMPLE SCENARIO

A previously compromised application server begins communicating with a number of database and management systems that it has never previously accessed.
Traditional monitoring may identify the individual connections but provide limited context around whether the behaviour is abnormal.

IntSOC can identify the server's normal communication community and realise the change in behaviour. The new connections can then be correlated with other indicators such as unusual traffic volumes, long-lived sessions or suspicious external communication.

The result is a contextualised security event rather than a collection of isolated network alerts, allowing the SOC and data centre teams to investigate the underlying behaviour quickly.

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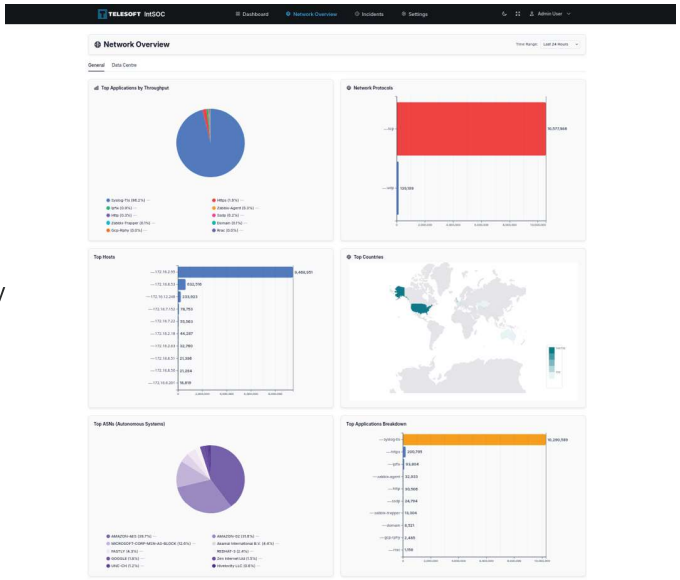
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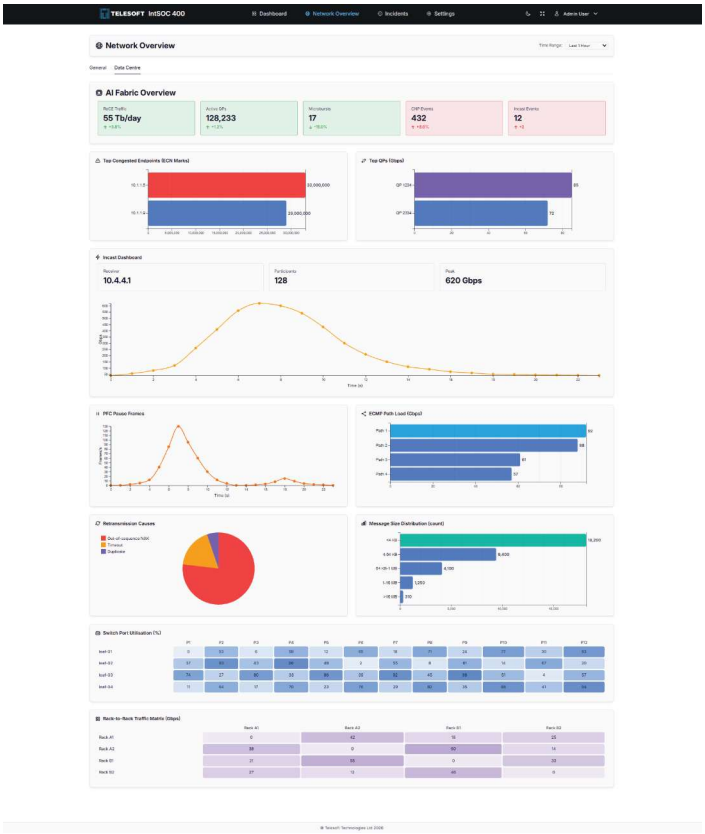
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BUSINESS OUTCOMES

Deploying IntSOC within a data centre can provide:

» Complete network visibility across high-speed infrastructure
» Earlier detection of security and performance anomalies
» Reduced alert noise through AI-driven correlation and prioritisation
» Improved East-West visibility across workloads and applications
» Faster troubleshooting through shared network and security telemetry
» Predictive network monitoring to identify issues before service impact
» Improved capacity planning based on actual network behaviour
» Reduced tool duplication by combining observability and NDR
» Data sovereignty through on-premises processing
» The ability to deploy custom AI models alongside pre-built detection models





Network Overview

Gives you full insight into the traffic flowing through your network, including

» Total Throughput
» Top Hosts
» Top Applications
» Top Protocols

Focus on Top Talkers with stats featuring

» Source and Destination IP
» VLAN/VXLAN/GENEVE/NVGRE
» ASN
» Country
» Volume

AI Fabric Overview

Unmatched observability for your East-West traffic. See all top events on the Data Centre page focussing on

» RoCEv2 traffic throughput
» Microburst detection at microsecond resolution
» CNP Events
» Incast Events
» Top Congested Endpoints
» Incast Dashboard
» Top QPs

SUMMARY

IntSOC transforms the data centre network from a passive transport layer into a continuously monitored source of security and operational intelligence.

By combining unsampled high-speed network telemetry with AI-powered NDR and network observability, organisations can understand what is communicating, what is normal, what has changed and what requires investigation - helping security and infrastructure teams protect availability, detect threats and optimise increasingly complex data centre environments.

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