

Network-wide Traffic Visibility and Instant DDoS Protection with GenieATM



Carrier-grade Platform for Large Networks

GenieATM is purpose-built for massive-scale networks like telecom operators, internet service providers and data centers. By leveraging IP Flow technologies, GenieATM provides network-wide visibility into data traffic trends and in-depth traffic attributes, enabling service providers to better plan, manage and engineer their networks. Based on proactive network behavior analysis and anomaly intelligence, GenieATM offers prompt detection of DDoS attacks and network threats to ensure full-scope security for large-scale networks.

Core Features



Machine-learned Traffic Baseline

Auto-learning detection engine to provide not only object-based, but also per-IP-based traffic baselining for every individual host to precisely secure against DDoS threats.



All-around Anomaly Traffic Mitigation

Instant alerts by Email, SNMP, Syslog or Webhook during anomaly events. Anomaly mitigation through Remote Blackhole Routing, BGP FlowSpec, or anomaly traffic redirection to third-party traffic scrubbing devices.



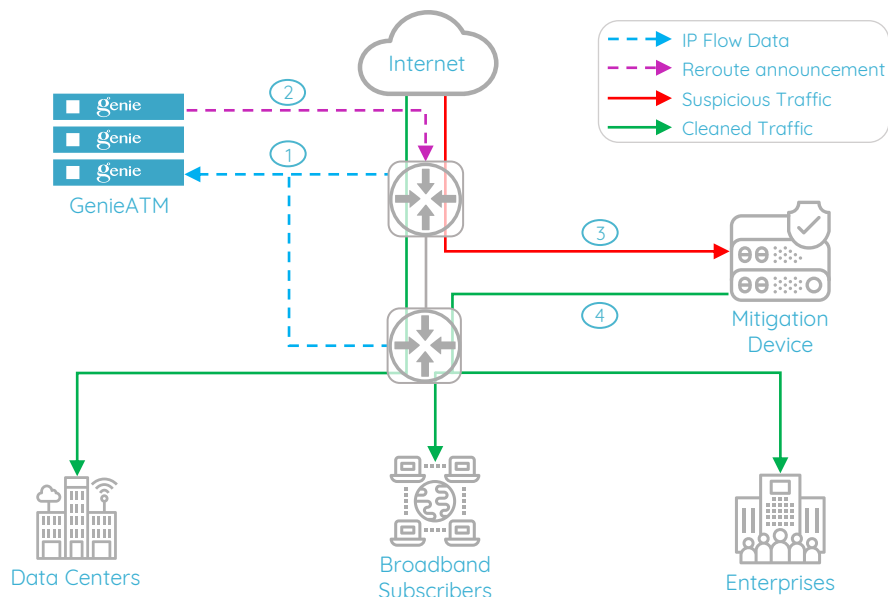
In-Depth Traffic Analysis and Reporting

Real-time and retrospective traffic monitoring and in-depth analysis including sophisticated classification, statistics, sorting, and visualized reports for traffic among all network areas, resources, users, and applications.



Industry-leading Performance

Industry-leading performance supporting up to 12,000 routers and 24 million flows per second (fps) per deployment. Fast threat detection for as quick as 1 second.



Threat Detection and Mitigation with GenieATM

Use Cases and Benefits

Network Visibility

- Comprehensive monitoring on traffic distribution within internal and external networks
- Achieve higher ROI and lower TCO by deploying GenieATM for not only network perimeter but also the entire network backbone security

DDoS Attack Protection

- Behavior-based detection to defend against unknown threats and zero-day attacks
- In-cloud detection and mitigation to avoid SPOF or in-line latency for normal traffic
- Reduce network outage and avoid business loss caused by cyber threats

Network Troubleshooting and Forensics

- Instant drill-down and retrospective analysis for root cause and forensics investigations
- Effectively reduce Mean-Time-To-Repair (MTTR) and cost per ticket

Network Capacity Planning

- Predict and locate network hot spots to optimize capacity planning and save infrastructure costs
- Cost analysis for different network resources and different types of traffic

Peering Analysis and Optimization

- Identify optimal peering partners to lower internet transit costs
- Conduct internet peering cost analysis to optimize cost and quality

Managed Security Service Provider (MSSP) Enabling

- Enable ISPs to deliver traffic analysis and DDoS security features as revenue-generating managed services for their MSSP customers
- Multi-tenant, user-friendly web portal interface



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