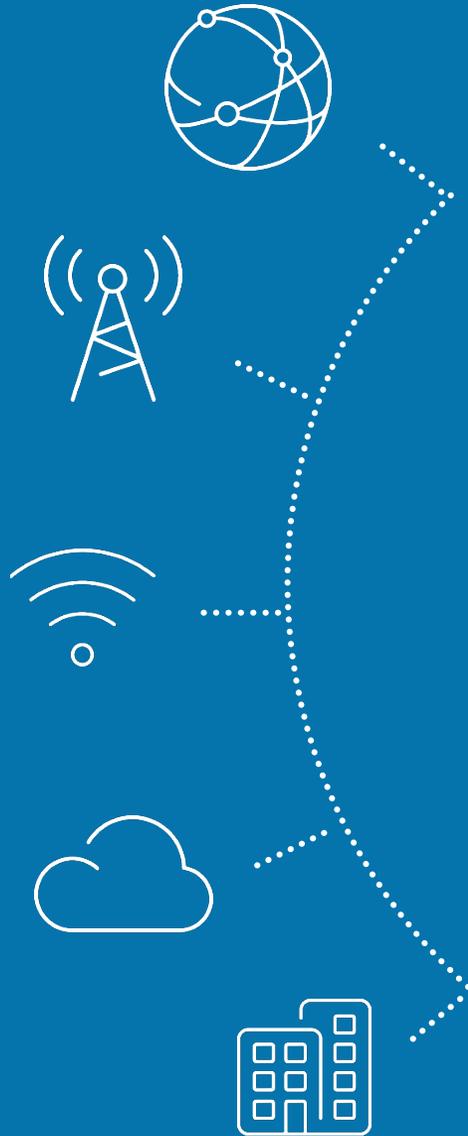


Next Gen Security from AT&T

David Sanford Security Strategist

2/2/2017





At AT&T, we manage highly secure solutions to help protect what's important to our customers.



Today's threat landscape requires a multi-layered approach



Security Consulting
Strategy & vulnerability scanning

Endpoint

Mobile, IoT, Office/Fixed



Connectivity

Securing the network



Data/Application

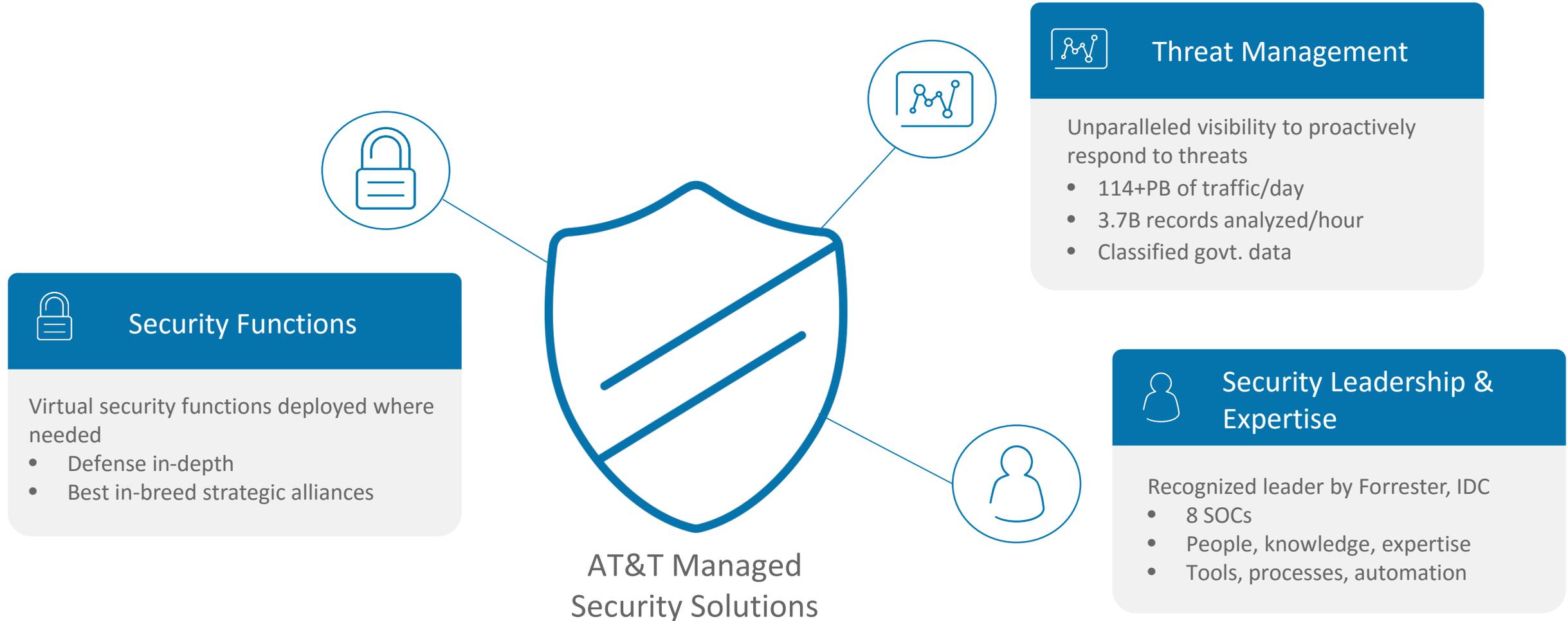
Securing workloads/applications



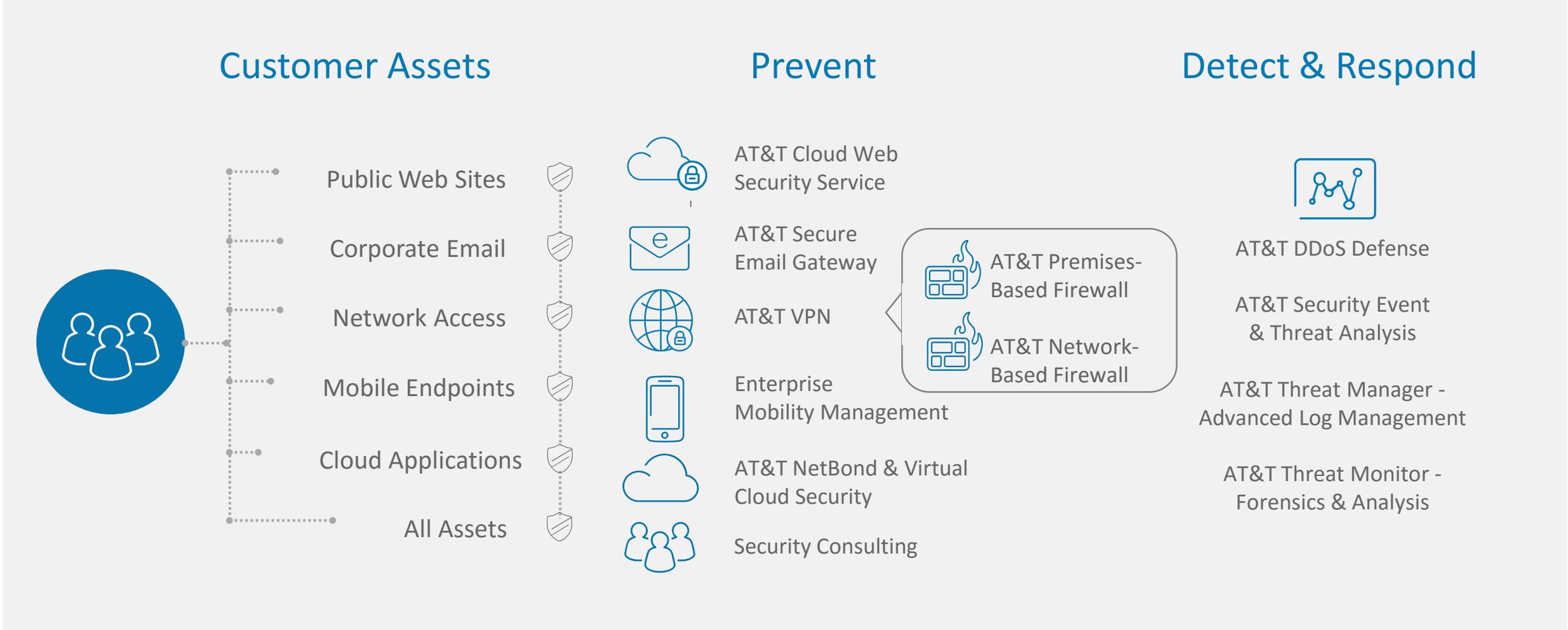
Threat Management
Detection & response



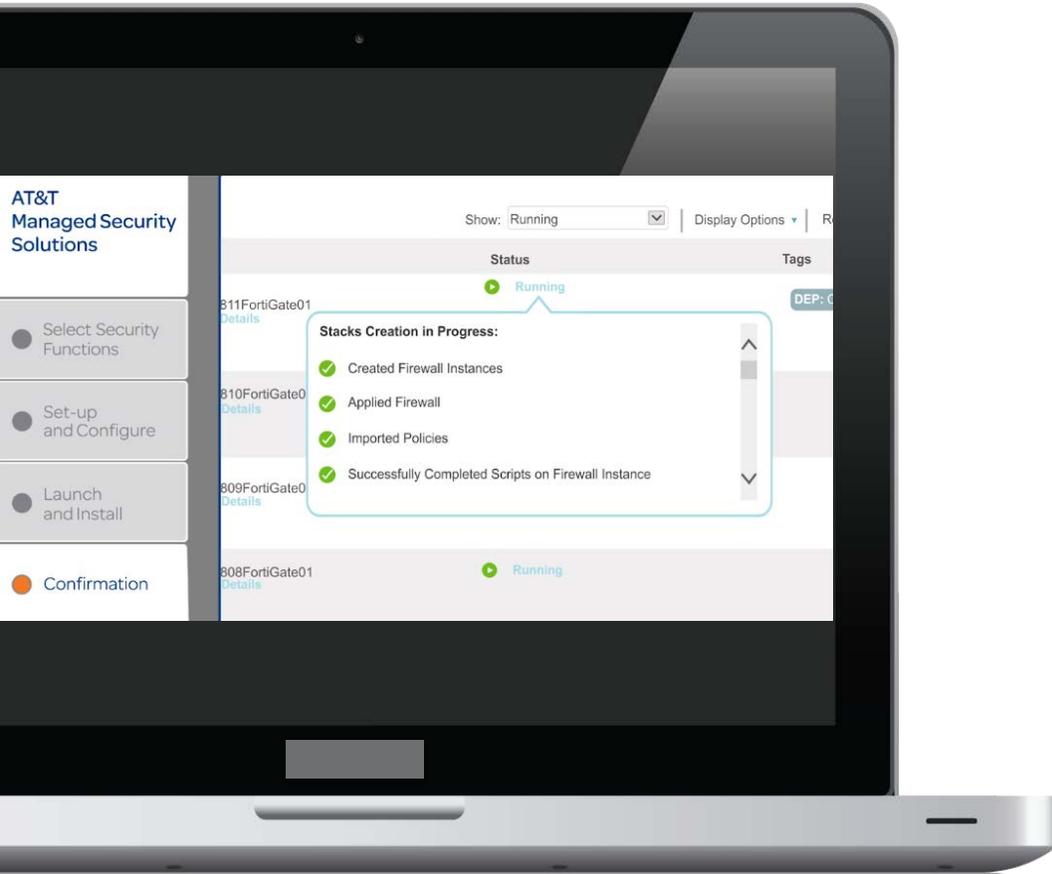
AT&T has the capabilities and expertise to help customers prevent, detect and respond to threats.



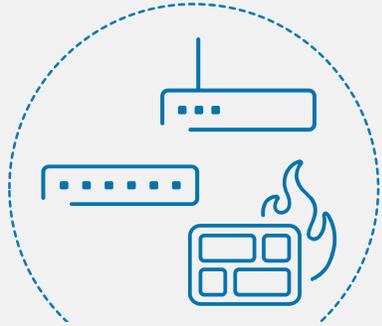
End-to-end managed security solutions to help protect our customers' assets



Virtual security managed and deployed where needed



Defense in-depth

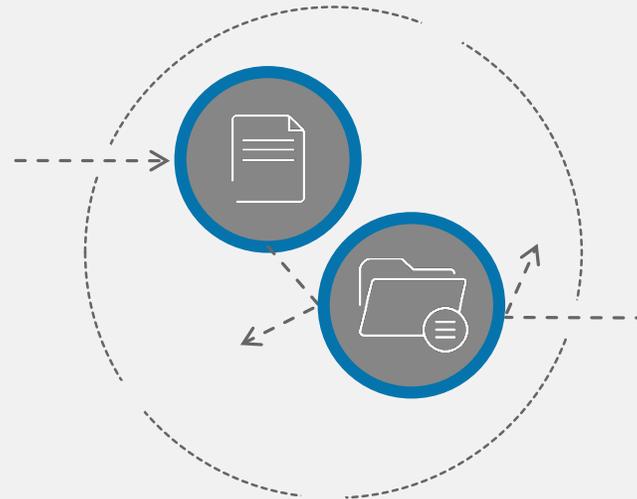


Virtualized security functions

- Consistency across clouds
- Operational efficiency
- Rapid response
- Dynamic scale



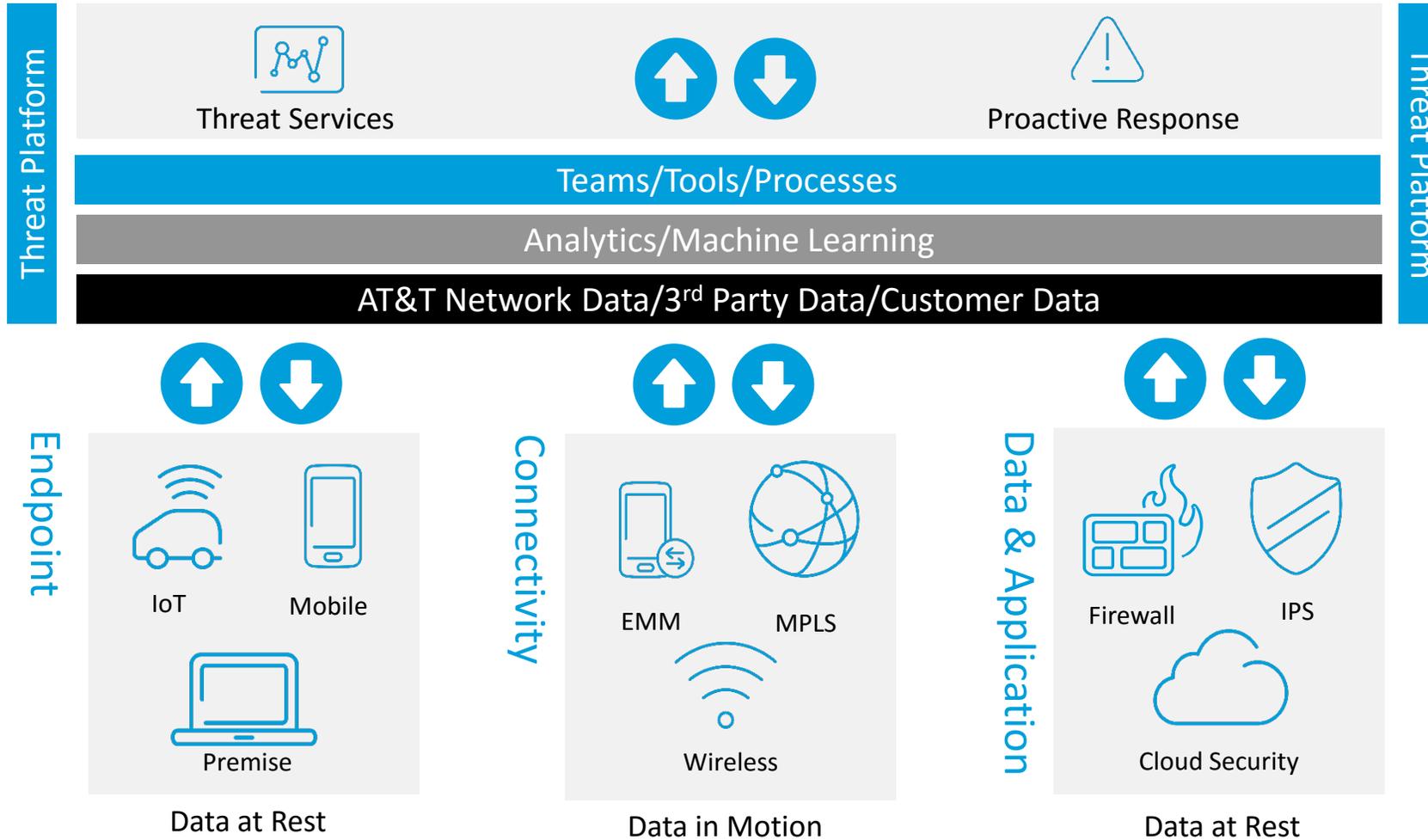
Enhanced security *inside* the perimeter and *to* the application



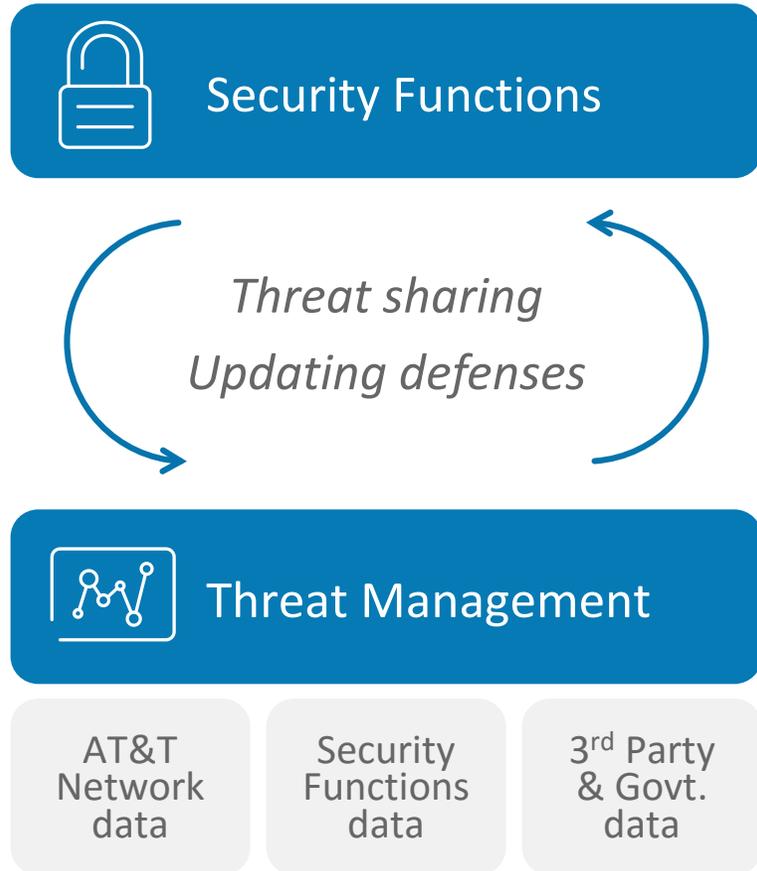
- Inside & lateral protection
- Customized perimeter per application
- On-demand policy orchestration
- Automation



AT&T next generation threat platform



Scale, reliability and enhanced visibility from AT&T Managed Security



3.7B

Records pass through our Analysis Engines every hour

Over 114

Petabytes of traffic across the network per day¹

3800+

MPLS nodes in one of the largest IP networks in the world

8

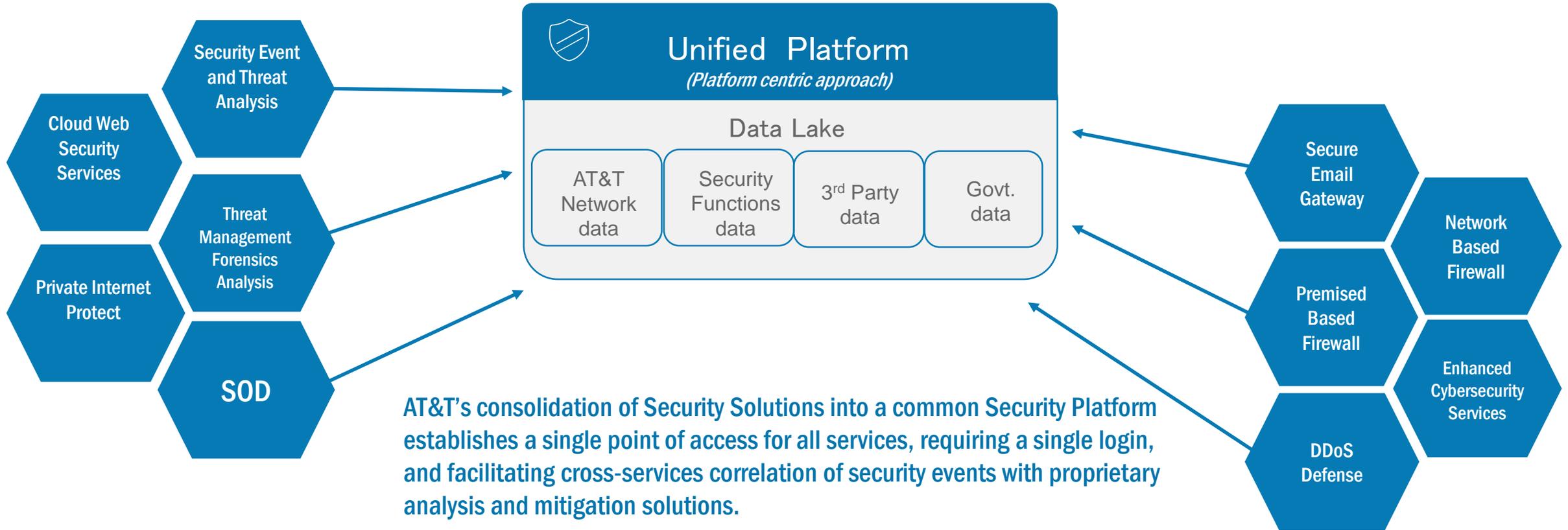
Global Security Operations Centers

24/7/365

Operations support



AT&T simplifies access to their comprehensive portfolio of Security Solutions, making it easier for users to prevent, detect, and respond to the ever-changing IT security landscape.



Security Innovation with the AT&T Foundry[®]

Software Defined Perimeter

Exfiltration Prevention



**Identity & Access
Management /
Biometrics**

Deep Learning



Security Innovation

Mission: connect with cutting-edge startups, academics and inventors to deliver valuable security services that enhance or refine platforms and customer experience

Enterprise Endpoint Security

Secures, controls, and manages traditional (PCs, laptops, servers) and IoT endpoints and

Proactively blocks completely new and unknown threats across all of your endpoints.

Across both physical and virtual environments

File-based Cloud Encryption Gateway

Gateway encrypts files as they travel from enterprise to cloud, leaving the files protected even when at rest.

The solution's 1 key per file approach reduces the "blast radius" of a breach

True end-to-end protection of an enterprise's cloud-stored data, never leaving AT&T's private cloud even when in transit

Mobile and Application Security and Remediation

Proactive defense against known and unknown threats for mobile devices and applications

Combination of defenses at the mobile OS and networks

Real-time user behavior analysis and predictive analytics.

IIoT Security Gateway

Cyber-aware gateway/ firewall blocks machine-specific malicious attacks to IoT endpoints

Provides automatic defense for networked industrial equipment.

Differentiates between valid and potentially rogue commands

Customer – Large State Judiciary System

Issue – Suspicious outbound FTP connection allowed through the firewall to a “not normal” destination.

How We Detected – ThreatWatch 2.0® Network behavioral analytics platform detected anomaly

How We Notified – A notification was sent describing potential malicious activity (possible data exfiltration) using our proprietary “SORAD™” alert notification

Customer Response – Customer conducted investigation that determined the FTP connection was malicious, which resulted in a change to the firewall rules blocking the traffic

Follow up – We added attacker’s profile to our consolidated threat reputation monitoring to improve future alert confidence and be on the lookout for similar threats



Customer – Transportation

Security Event – Customer requests for forensic and other traffic pattern matching data to confirm patient zero of a malware attack.

What we did– During the incident handling process driven by the customer, we determined that the access resulted from an infected device. and then analyze that device’s network behavior historically to build a network fingerprint based on the frequency, protocols and destination of attempted network connections by the malware.

Customer Response– Used fingerprint to determine extent of infection, including patient zero and initial source of infection which was malware in an email.

Follow up – Malware was submitted to anti-malware vendors. We distributed the fingerprint across our systems including known C&C systems to the consolidated threat database to detect future similar attacks. .



MOBILIZING
YOUR
WORLDSM

