The New Defense Strategy: Protect, Detect and Correct

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Threat Trends – Q4 2015

Malware continues to grow and get more sophisticated…

There are 316 new threats every minute, or more than 5 every second.

Malware

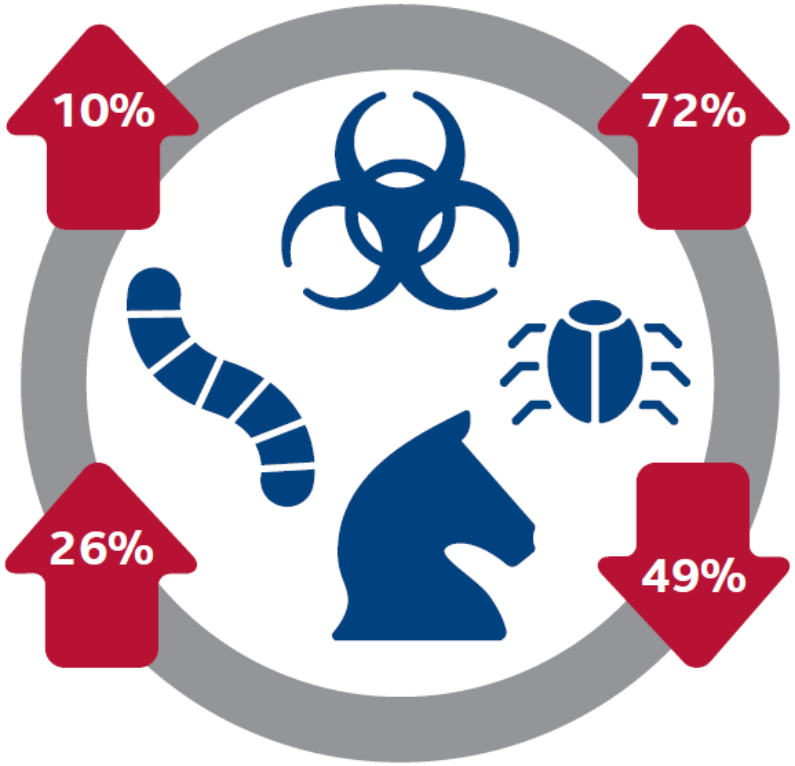
After three quarters of decline, **new malware grew 10% in Q4** with 42 million samples, the second highest on record.

Ransomware

26% more new ransomware samples in Q4.

Open-source ransomware code and ransomware-as-a-service make attacks simpler.

Attacks are financially lucrative with little chance of arrest.



Mobile Malware

72% more new mobile malware samples in Q4.

Google's monthly updates to Android may have forced attackers to develop malware more frequently.

Rootkits

Samples dropped by 49% in Q4.

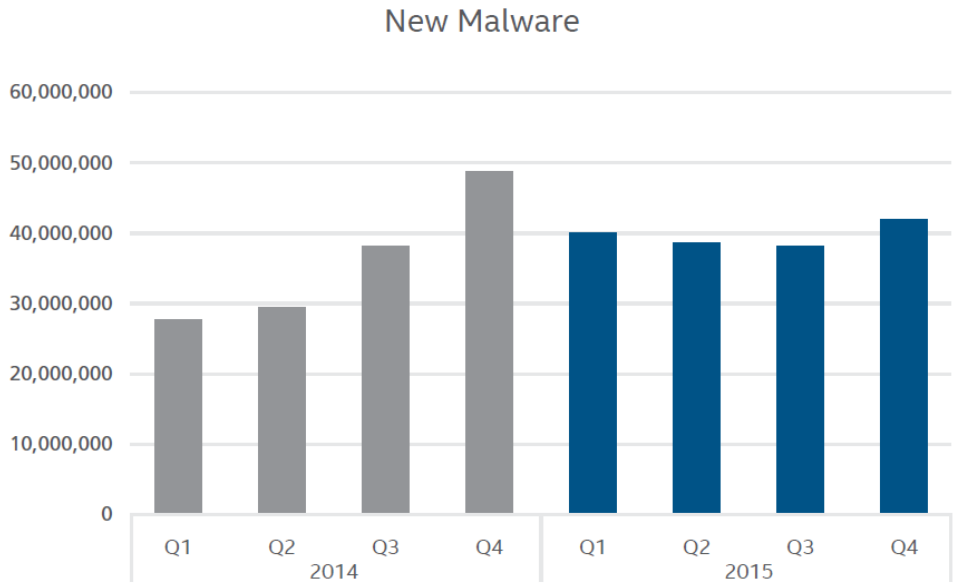
Long-term downward trend driven by 64-bit Intel CPUs and 64-bit Windows.

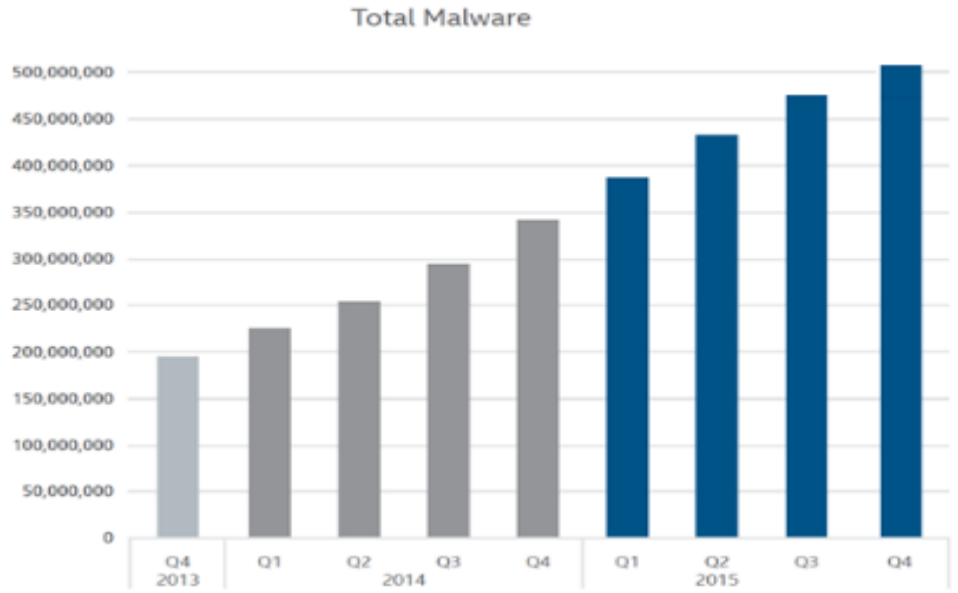
Source: McAfee Labs

Malware

New record for new malware samples

December 31, 2015: we reach 516 million samples (~ 480k new and unique malicious binaries classified daily)



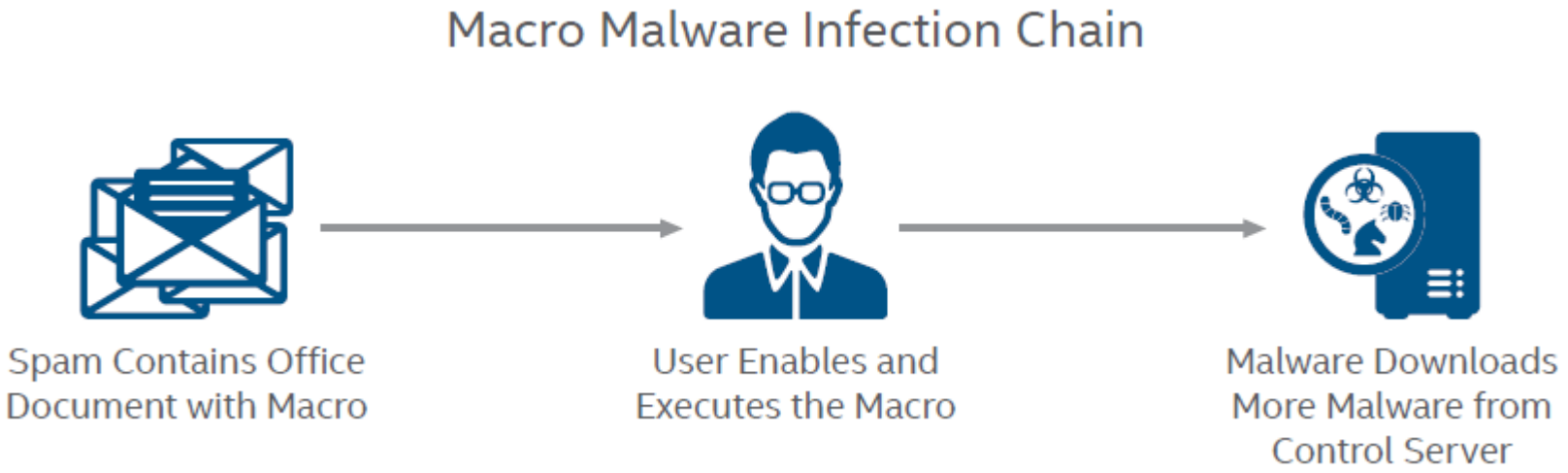


After three quarters of decline, the number of new malware samples resumed its ascent in Q4, with 42 million new malicious hashes discovered, 10% more than in Q3 and the second highest on record. The growth in Q4 was driven, in part, by 2.3 million new mobile threats, 1 million more than in Q3.

Source: McAfee Labs

The Return of Macro Malware

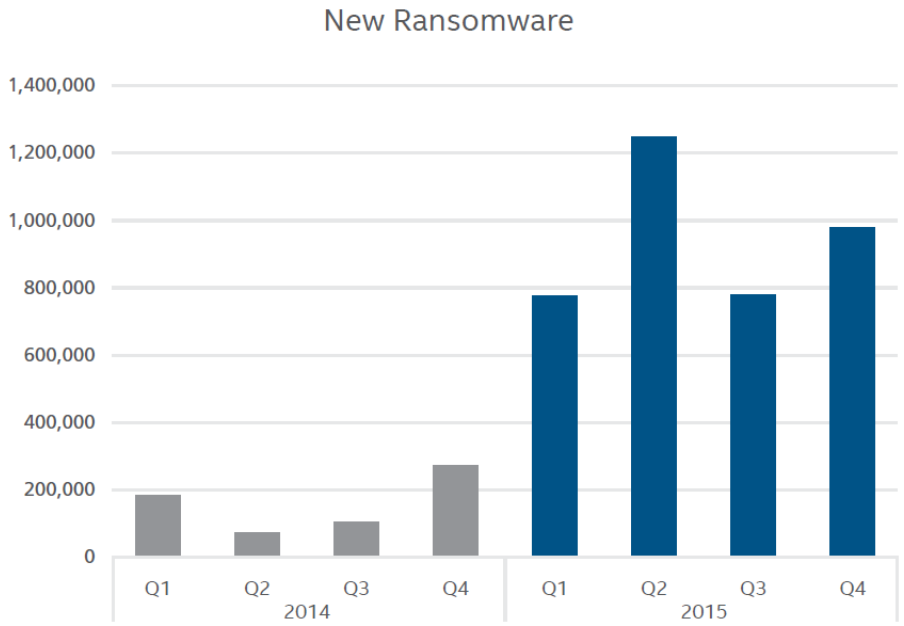
Microsoft Office macro threats are at their highest level in six years.

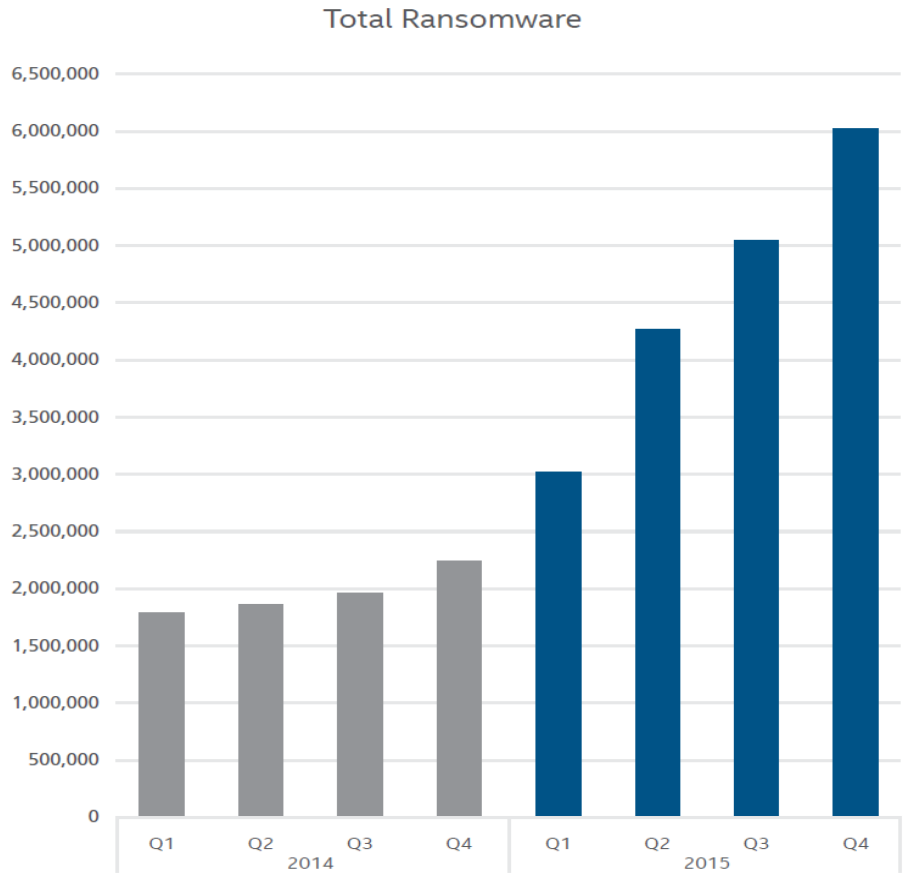


Successful campaigns deliver clever new macro malware through documents attached to sophisticated spam (Most of them are Microsoft OFFICE). The malicious macros remain hidden even after they have downloaded their payloads.

Ransomware

26% growth in Q4 2015





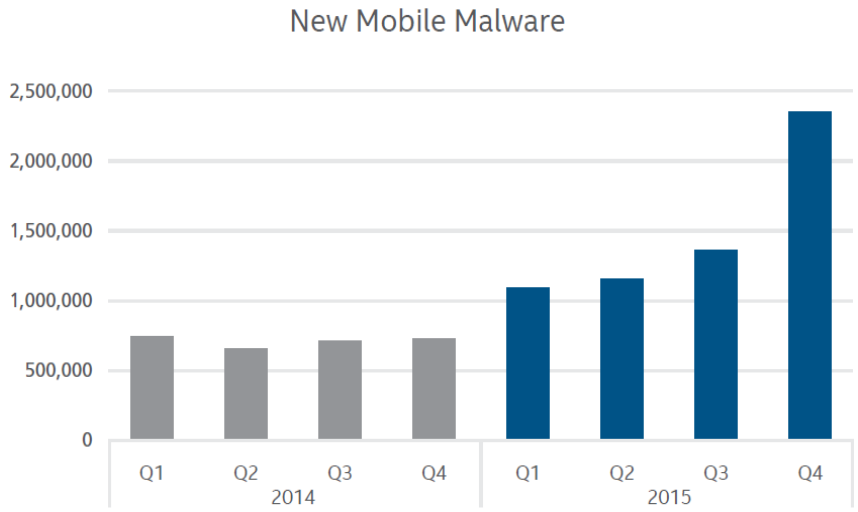
Open source ransomware code (for example, Hidden Tear, EDA2)
Ransomware-as-a-service (Ransom32, Encryptor)
TeslaCrypt and CryptoWall 3 campaigns also continue

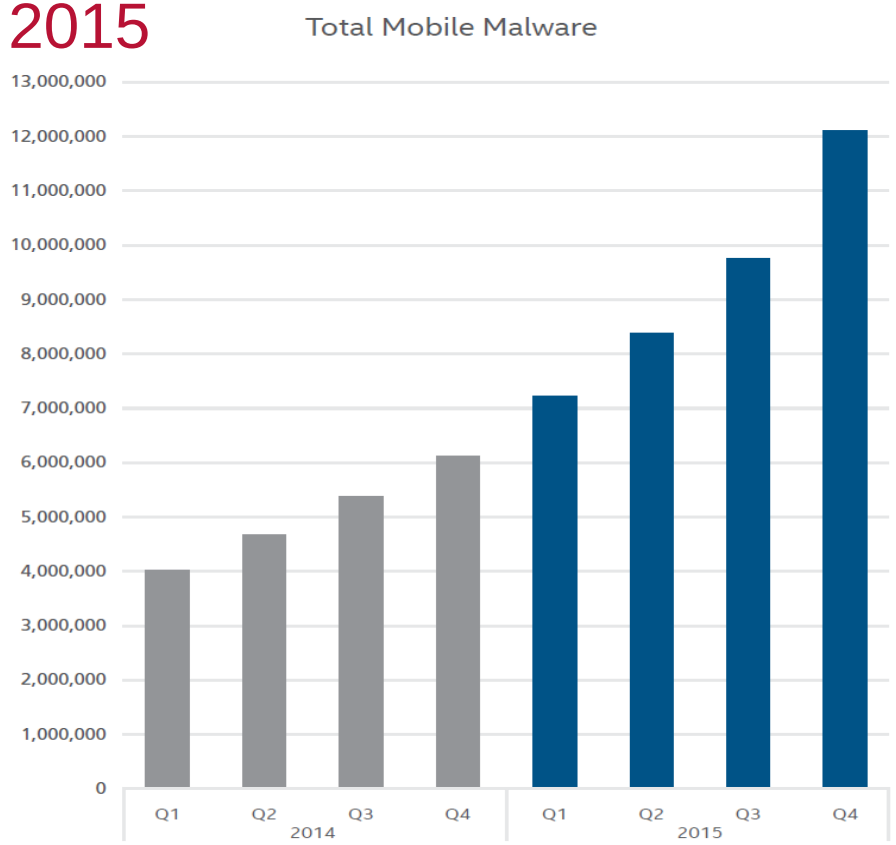
Source: McAfee Labs

NEW.NEXT.
SECURITY IN FOCUS.

Mobile Malware

72% new mobile malware samples in Q4 2015

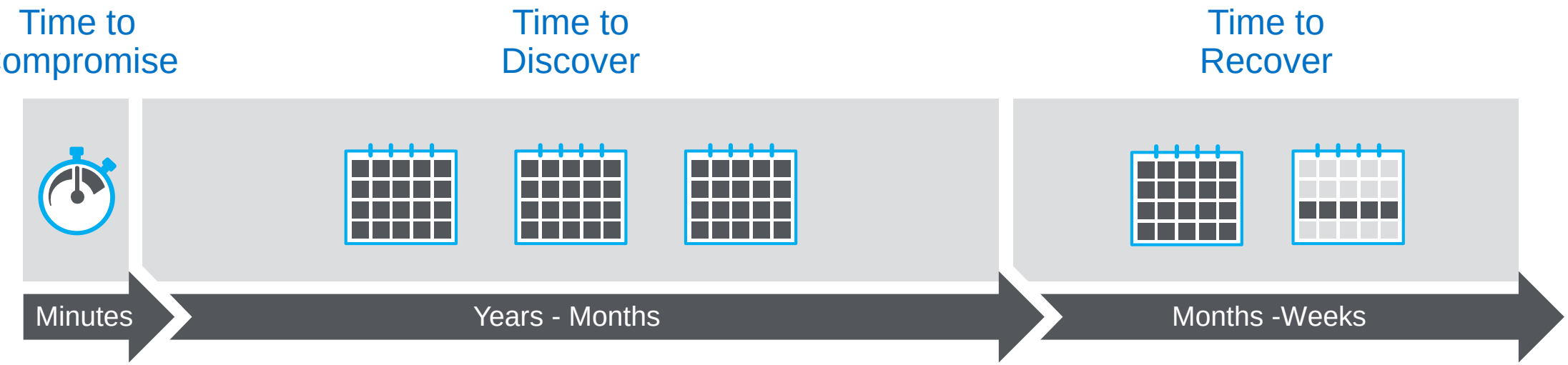




Authors to develop new malware more frequently in response to the enhanced security by Google updates, in each monthly release of the operating system. The detection of newly developed mobile malware is reflected in our Q4 statistics.

Source: McAfee Labs

Current ThreatScape Realities

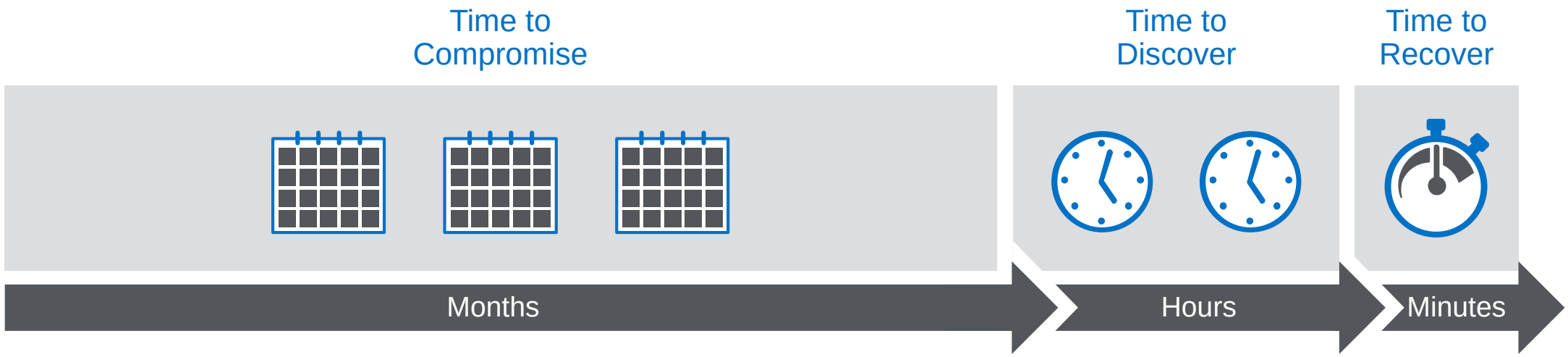


Minimal Adversarial Effort

Overwhelmed Security Teams

$$$ Catastrophic Impact $$$

Business and Security Outcomes



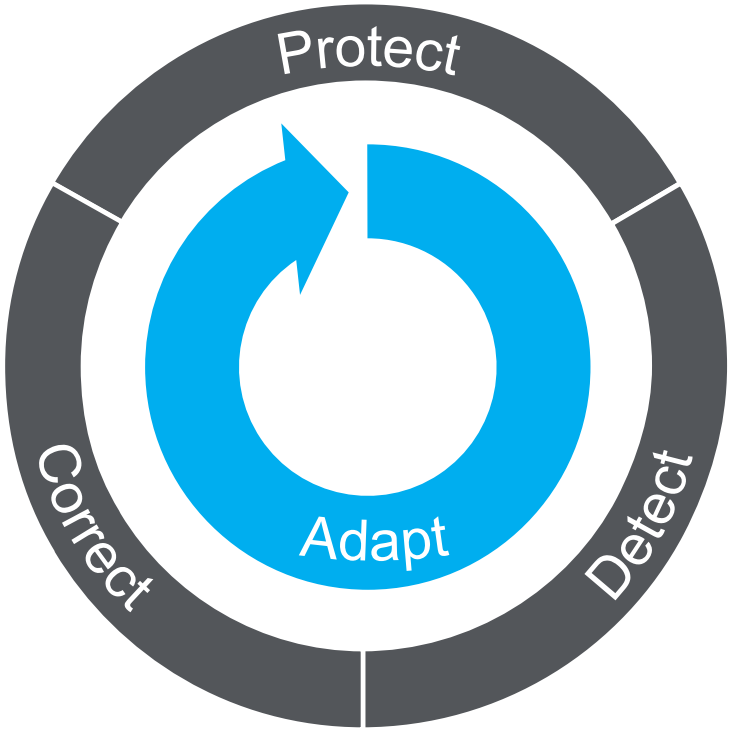
Significant Adversarial Effort

Optimized Security Teams

$ Minimized Impact $

Threat Defense Lifecycle's Value

Continuous, Automated, and Shared Threat Intelligence



Protect – Stop pervasive attack vectors while also disrupting never-before-seen techniques and payloads.

Detect – Illuminate low-threshold maneuvering through advanced intelligence and analytics.

Correct – Improve triage and prioritize response as part of a fluid investigation.

Adapt – Apply insights immediately throughout an integrated security system.

Threat Defense Platform: Protect, Detect, Correct

Endpoint Security

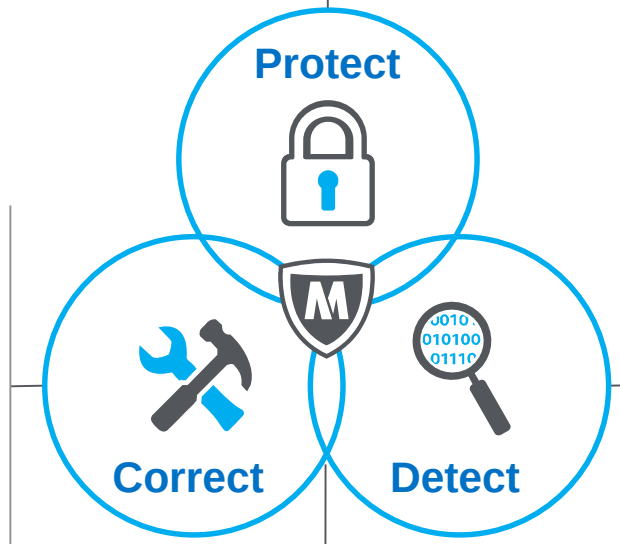
Threat Intelligence Exchange

Data Protection

Network Security Platform

McAfee Web Gateway

McAfee ePO



McAfee Enterprise Security Manager (SIEM)

McAfee Threat Intelligence Exchange/Data Exchange Layer

McAfee Advanced Threat Defense

McAfee Active Response

McAfee ePO

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McAfee Threat Intelligence Exchange/Data Exchange Layer

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SIA Partners

DXL: an open layer

DATA EXCHANGE LAYER

Ultra-fast persistent bidirectional messaging fabric

OPEN ECOSYSTEM

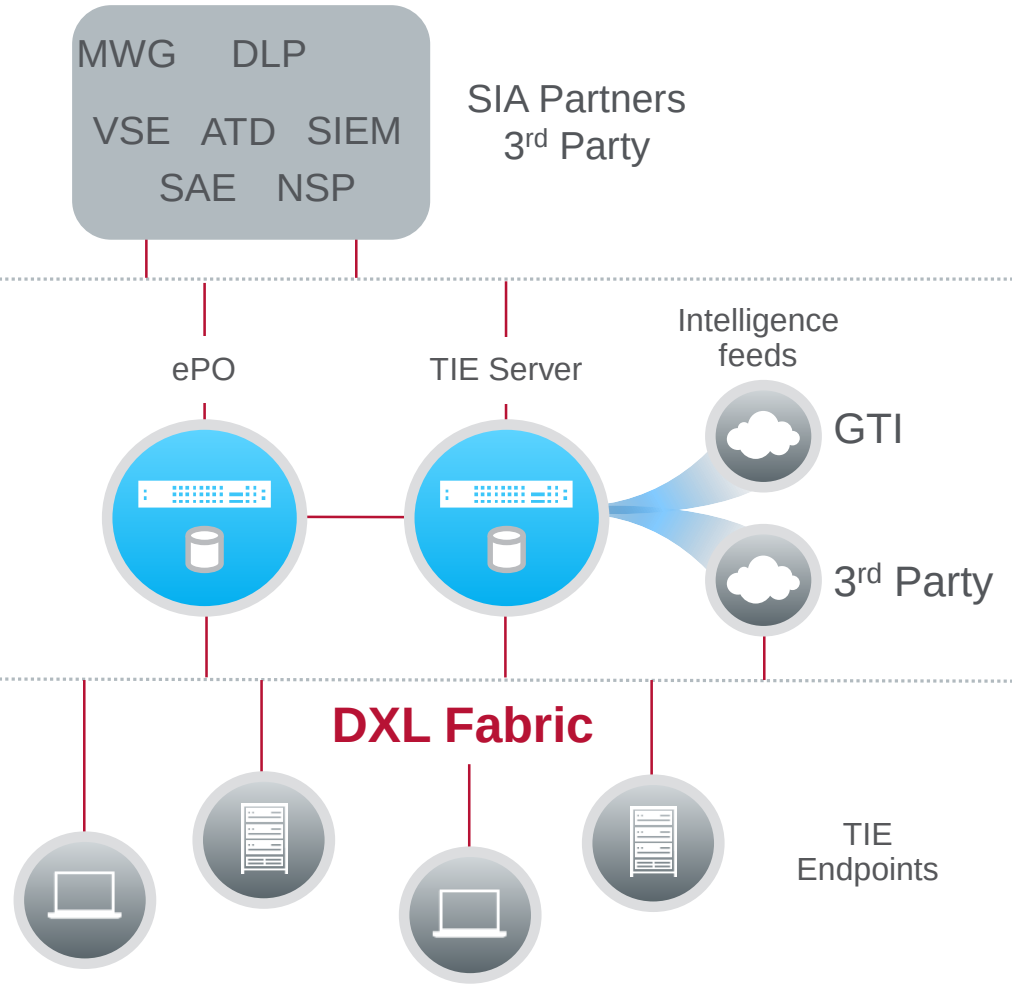
Security-Connected
IT Infrastructure

TIE SERVER

Incident Response Knowledgebase
Local Intelligence

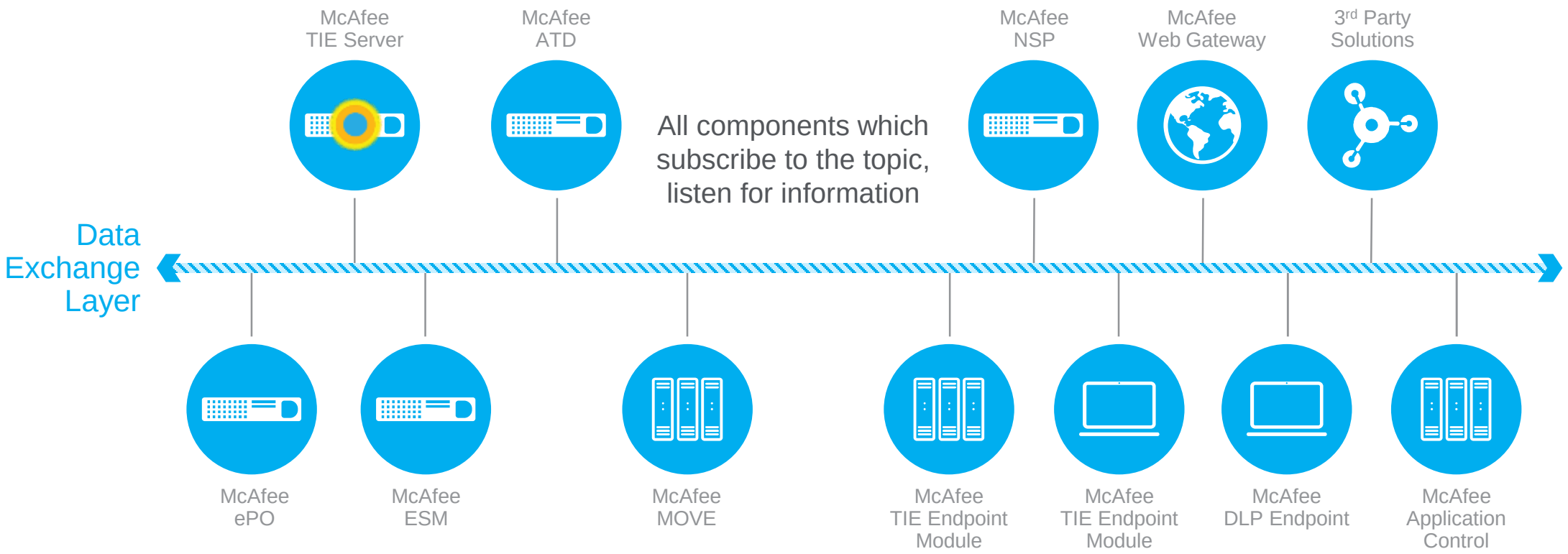
TIE ENDPOINTS

Execution-time reputation analysis & protection



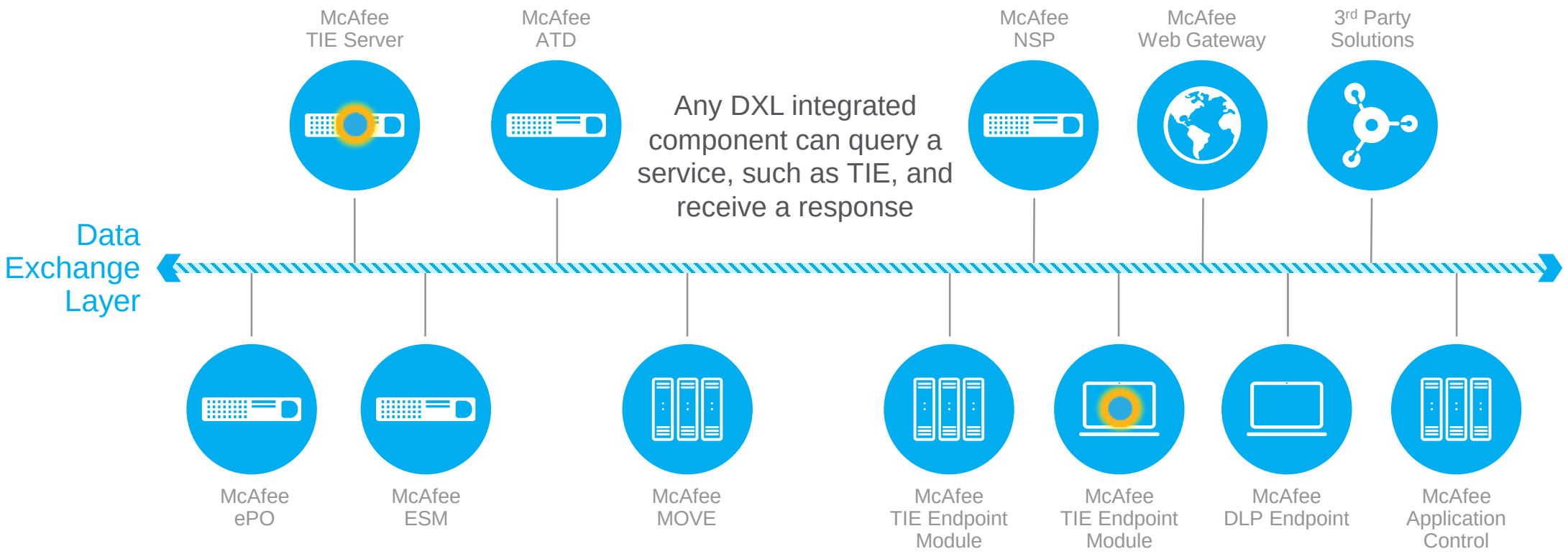
McAfee Data Exchange Layer (DXL)

Publish/Subscribe Model



McAfee Data Exchange Layer (DXL)

1:1 Query/Response Model

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