Nothing is safe

Zeck Lim
Director of Technologies
Akamai Technologies

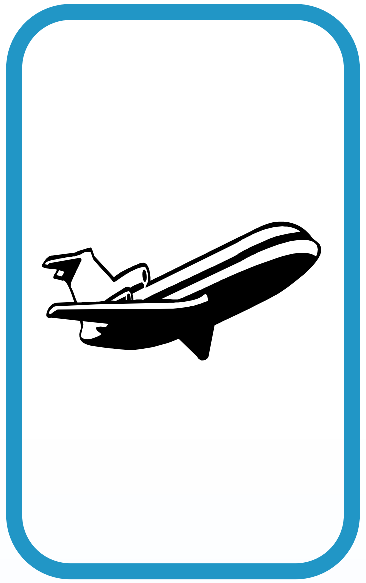
THE
AVERAGE
COMPANY
FACES

1,574,882

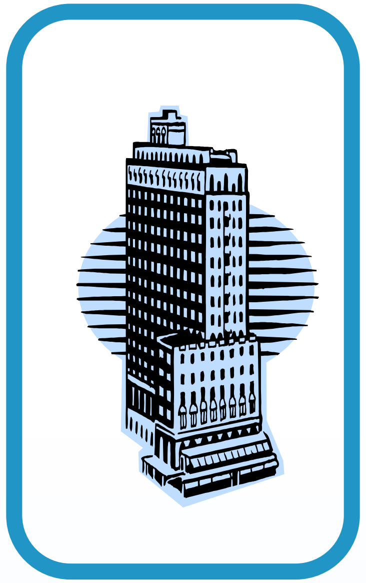
SECURITY EVENTS PER WEEK

TOP FIVE MOST ATTACKED INDUSTRIES TODAY

Health & Social Services

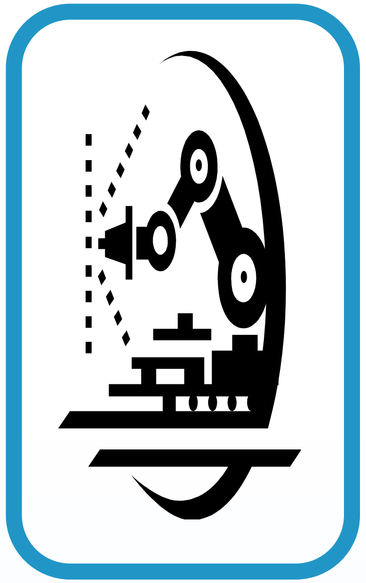


Transportation



Hospitality

Finance & Insurance

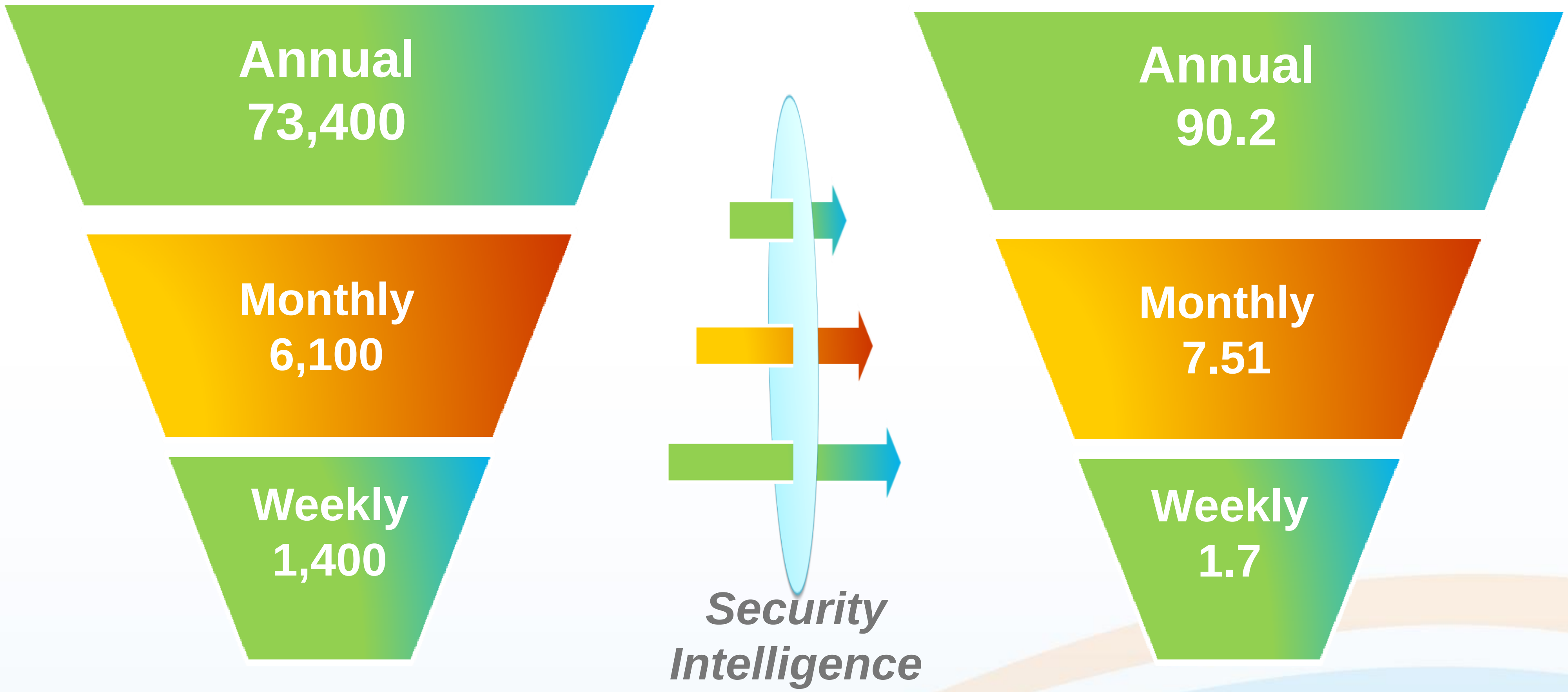


Manufacturing

THE AVERAGE LARGE COMPANY MUST FILTER THROUGH 1,400 CYBER ATTACKS PER WEEK

Number of Attacks

Number of Incidents



Annual 73,400

Monthly 6,100

Weekly 1,400

Security Intelligence

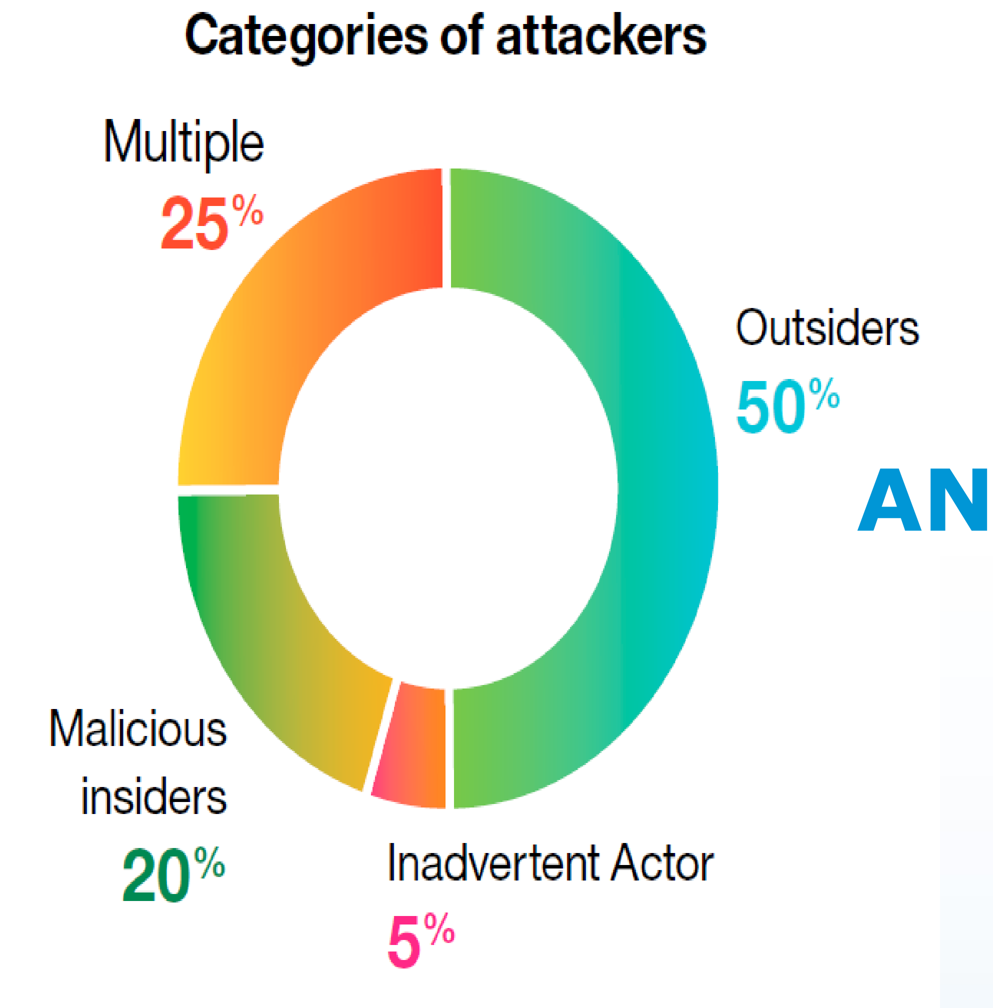
Annual 90.2

Monthly 7.51

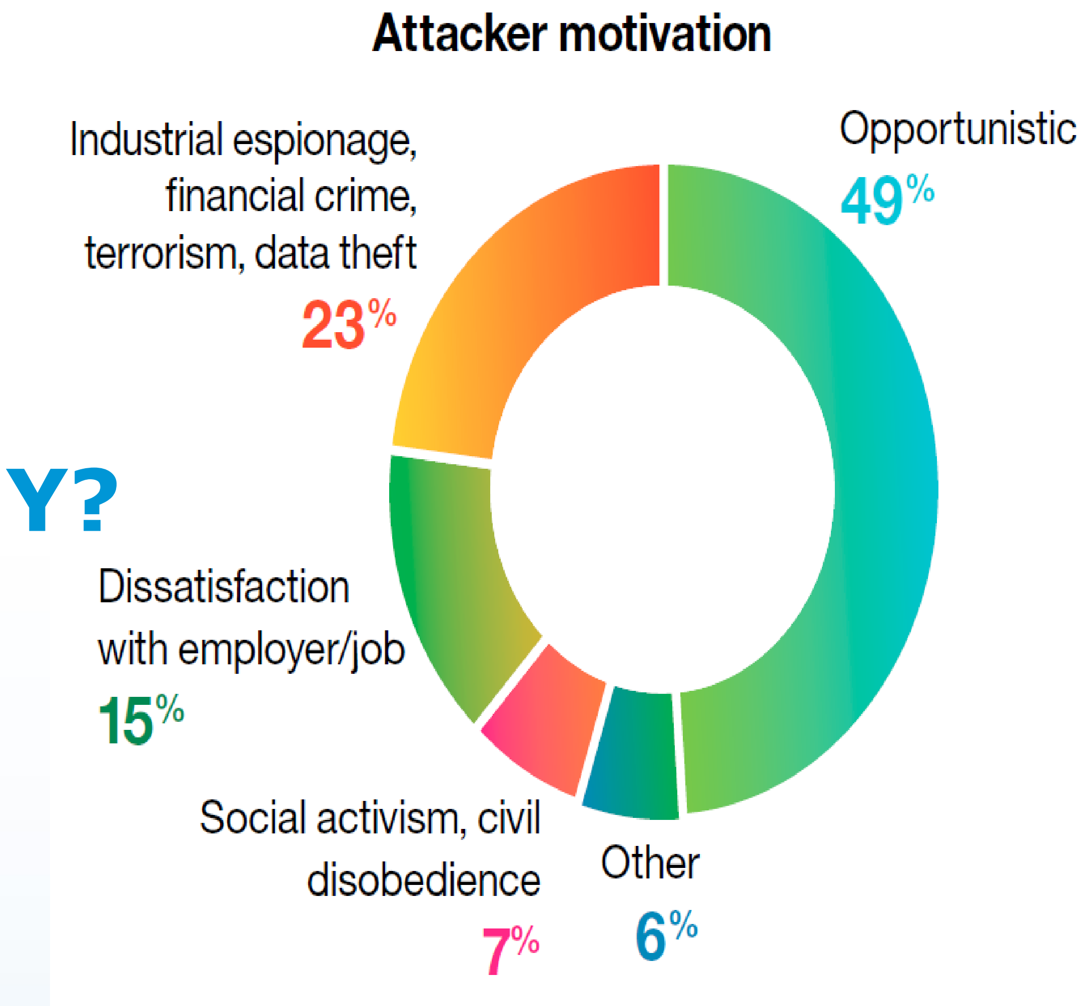
Weekly 1.7

…TO IDENTIFY THE 1.7 INCIDENTS THAT CAN DO HAR

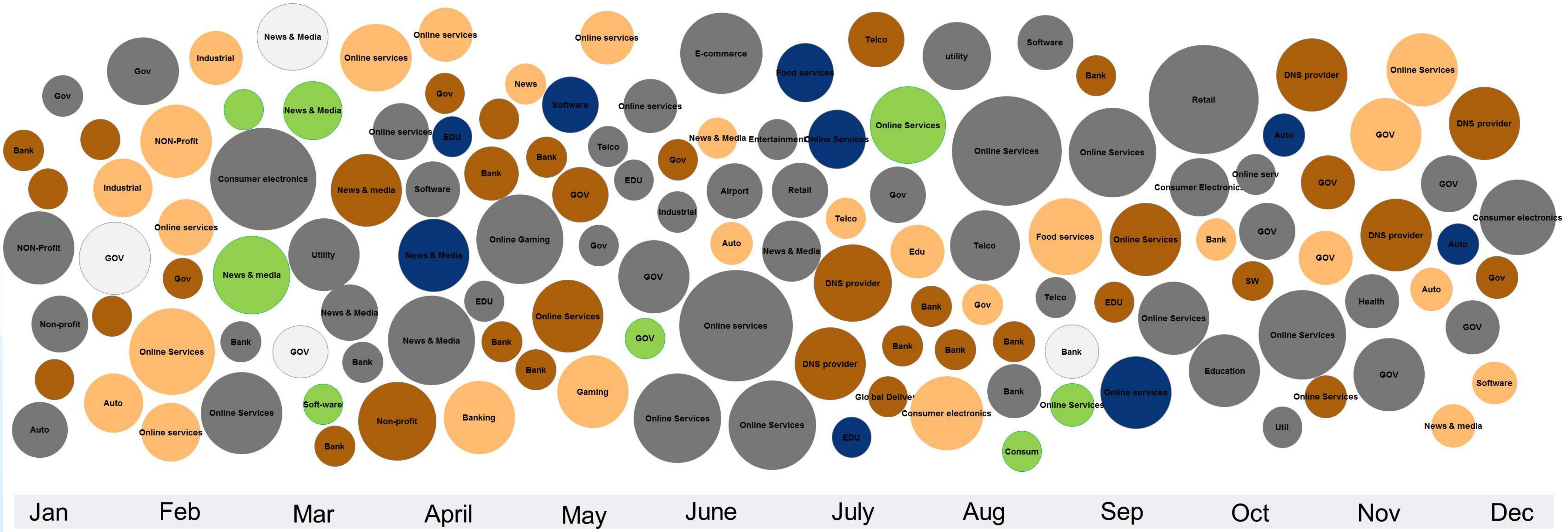
WHO IS ATTACKING YOUR NETWORKS



AND WHY?



DISTRIBUTED DENIAL OF SERVICE ATTACKS ARE BEING USED AS A DISTRACTION



There is good news…

65% of senior executives are paying more attention to security issues and plan to increase spending

66% of companies employ security threat intelligence to stay on top of the changing risk landscape

[1] IBM Chief Information Security Officer Assessment, 2012; [2] IBM Global Reputational Risk and IT Study, 2013

…and *not-so-good* news.

40% of companies employ security threat intelligence to stay on top of the changing risk landscape

18% of companies rate their ability to manage IT risk as very strong

[1]IBM Chief Information Security Officer Assessment, 2012; [2]IBM Global Reputational Risk and IT Study, 2013

SKILLS ARE ALMOST IMPOSSIBLE TO FIND

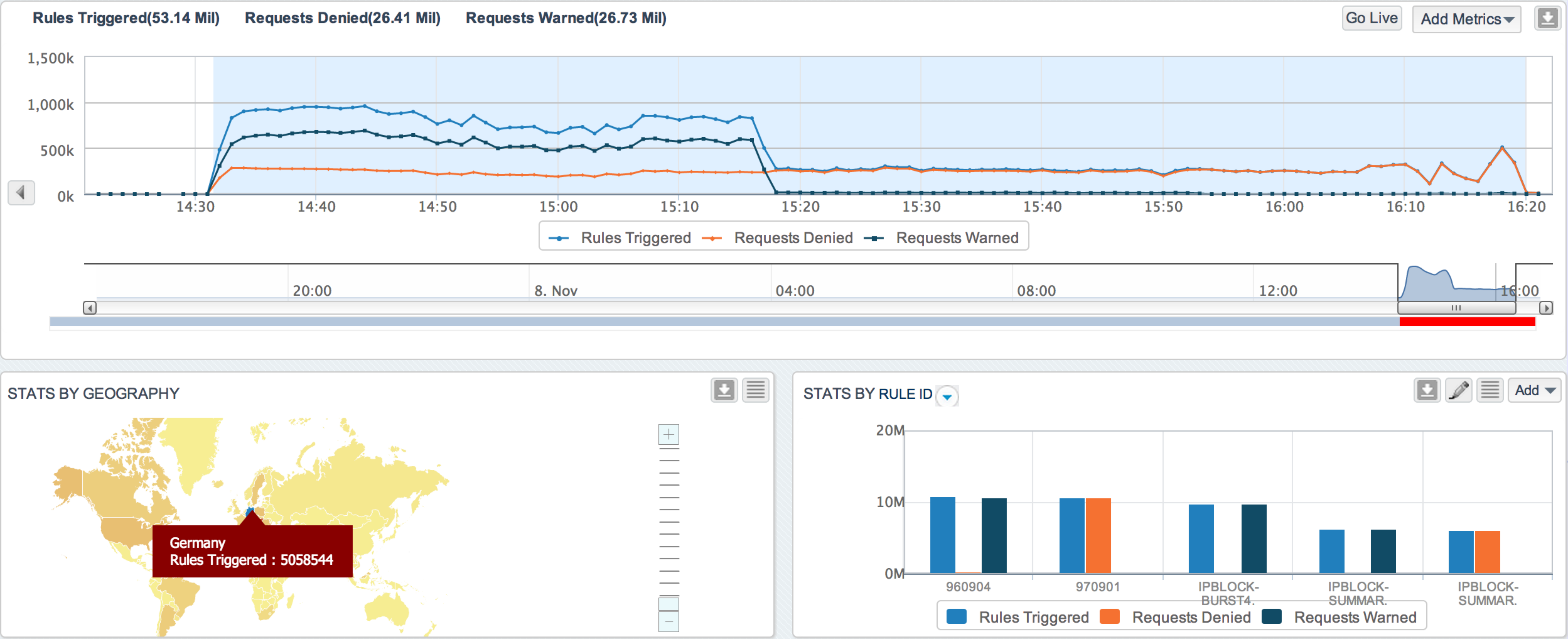
THE WORSE NEWS?

86% *'Concerns relating to managing information risk are directly related to staffing difficulties'*

81% *'Staffing challenges will either stay the same or get worse over the next five to 10 years'*

25% *'Technical security staff members remain on the team for three or more years'*

Attack on South Asian Customer – DDoS



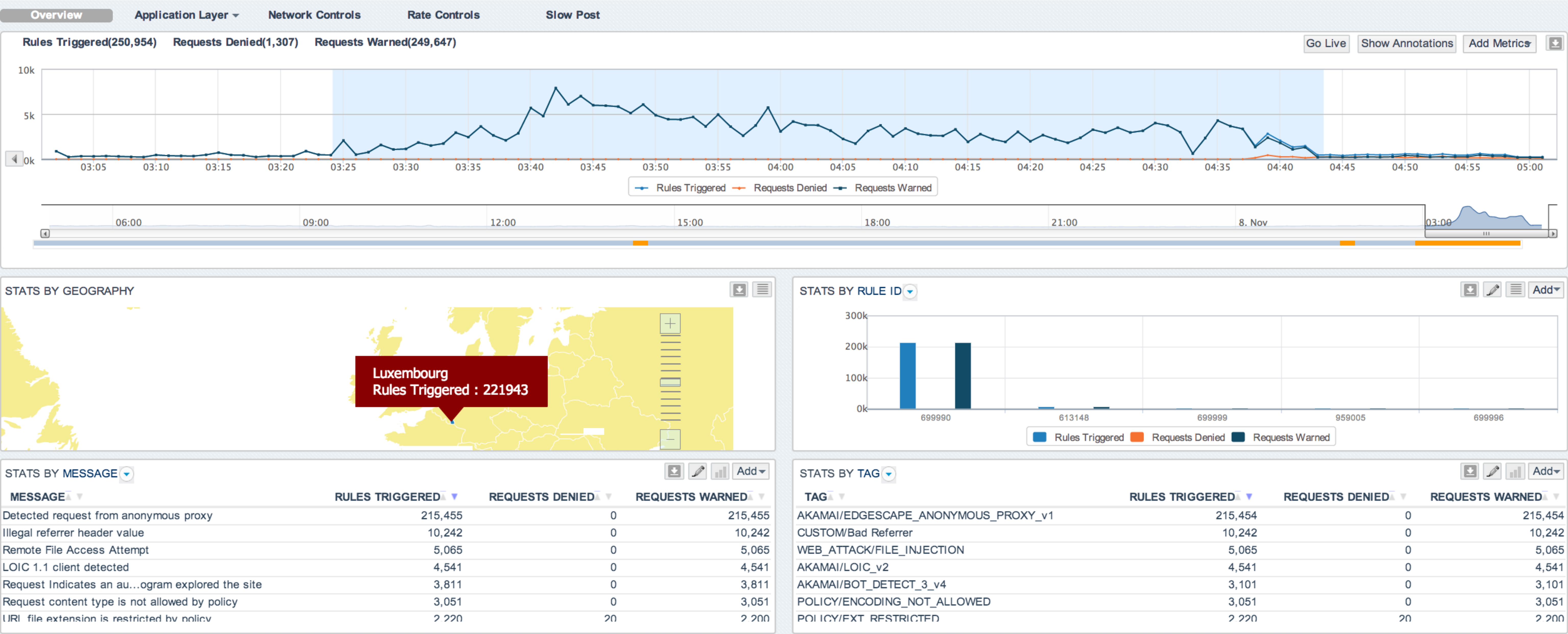
Rules Triggered(53.14 Mil) Requests Denied(26.41 Mil) Requests Warned(26.73 Mil)

STATS BY GEOGRAPHY

Germany
Rules Triggered : 5058544

STATS BY RULE ID

Attack on South Asian Customer – multi-vector attack



Rules Triggered(250,954) Requests Denied(1,307) Requests Warned(249,647)

STATS BY GEOGRAPHY

Luxembourg
Rules Triggered : 221943

STATS BY RULE ID

STATS BY MESSAGE

MESSAGE	RULES TRIGGERED	REQUESTS DENIED	REQUESTS WARNED
Detected request from anonymous proxy	215,455	0	215,455
Illegal referrer header value	10,242	0	10,242
Remote File Access Attempt	5,065	0	5,065
LOIC 1.1 client detected	4,541	0	4,541
Request Indicates an au...ogram explored the site	3,811	0	3,811
Request content type is not allowed by policy	3,051	0	3,051
URL file extension is restricted by policy	2,220	20	2,200

STATS BY TAG

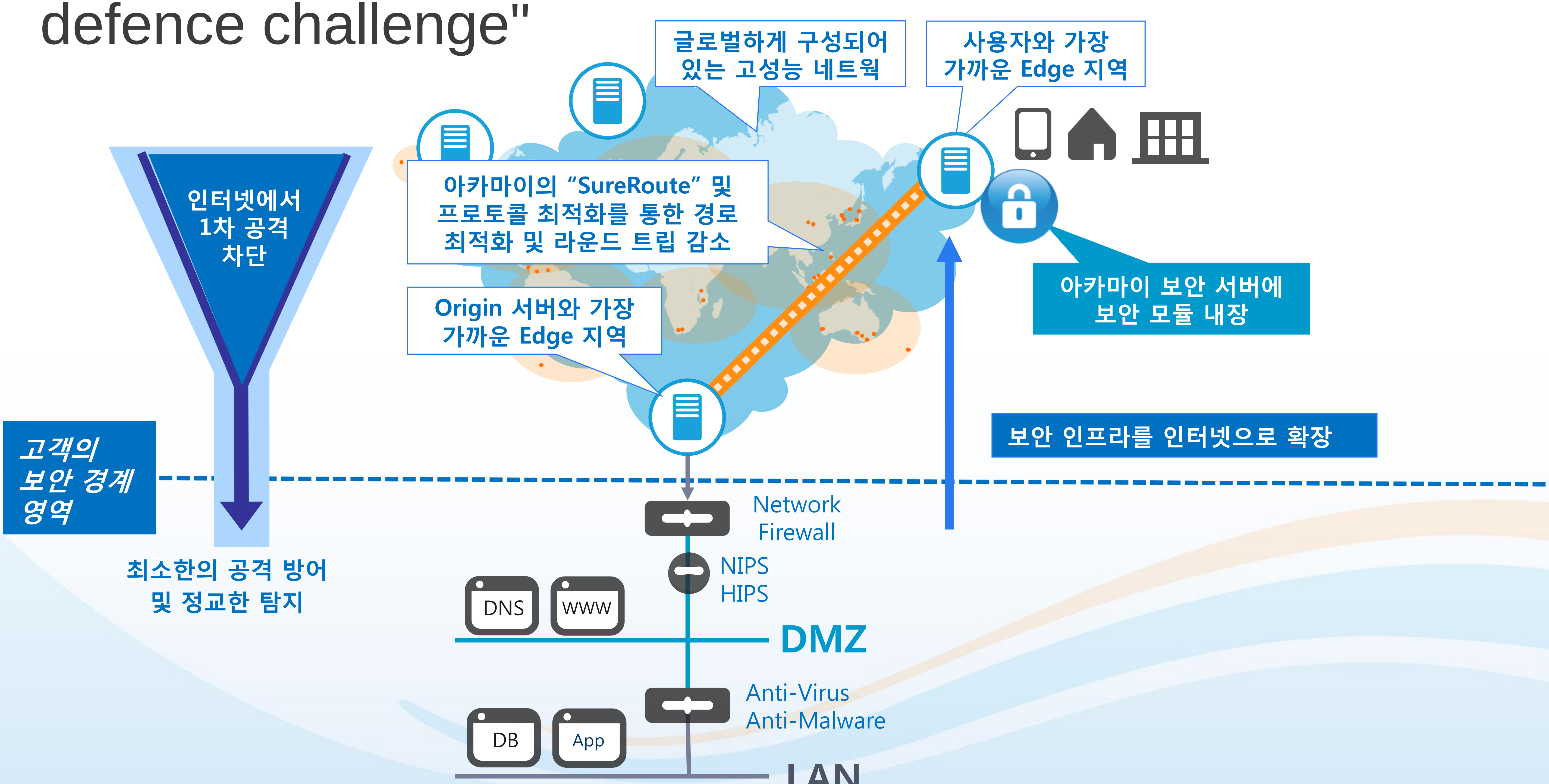
TAG	RULES TRIGGERED	REQUESTS DENIED	REQUESTS WARNED
AKAMAI/EDGESCAPE_ANONYMOUS_PROXY_v1	215,454	0	215,454
CUSTOM/Bad Referrer	10,242	0	10,242
WEB_ATTACK/FILE_INJECTION	5,065	0	5,065
AKAMAI/LOIC_v2	4,541	0	4,541
AKAMAI/BOT_DETECT_3_v4	3,101	0	3,101
POLICY/ENCODING_NOT_ALLOWED	3,051	0	3,051
POLICY/EXT_RESTRICTED	2,220	20	2,200

What was important

- Ability for the core organization to focus on more intelligent attacks
- Operational offload
- Intelligence into the threats and attacks
- Application layer mitigation
- Comprehensive logging
- Business as usual

“How would an organization be more agile in its cyber defenses in the face of escalating and more complex threats, manage its OPEX, retain and grow the human talents, and be a key strategic partner to the business. “

A new paradigm shift to meeting tomorrow's cyber defence challenge"



글로벌하게 구성되어 있는 고성능 네트워

사용자와 가장 가까운 Edge 지역

아카마이의 “SureRoute” 및 프로토콜 최적화를 통한 경로 최적화 및 라운드 트립 감소

Origin 서버와 가장 가까운 Edge 지역

아카마이 보안 서버에 보안 모듈 내장

보안 인프라를 인터넷으로 확장

인터넷에서 1차 공격 차단

고객의 보안 경계 영역

최소한의 공격 방어 및 정교한 탐지

Network Firewall

NIPS HIPS

DNS

WWW

DMZ

Anti-Virus Anti-Malware

DB

App

LAN