Level (3)
COMMUNICATIONS

**Connecting and Protecting
the Networked World℠**

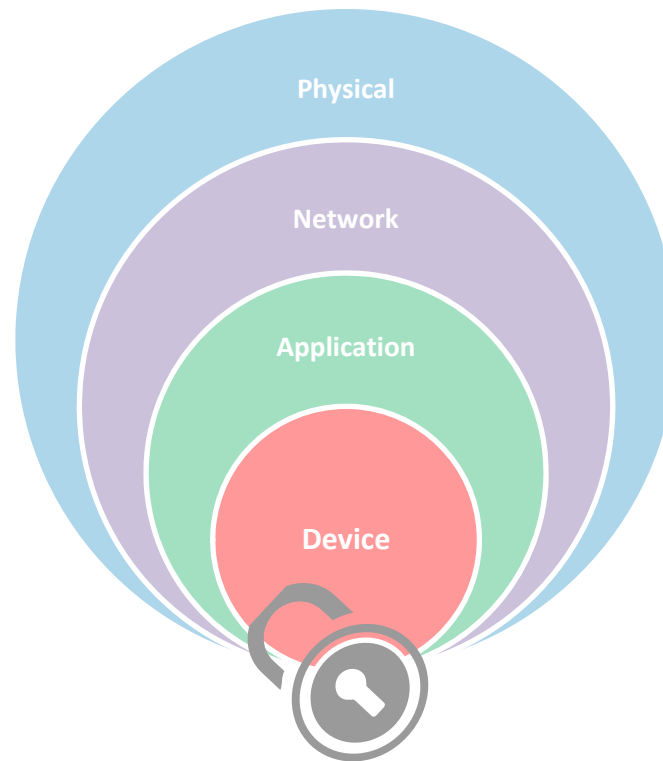# Preparing for the Future of the Internet:
Performance and Security Matter

Ivan Cheng, Senior Solutions Architect

Level 3 Communications

March 18, 2016

Availability

Performance

Defense-In-Depth

Physical
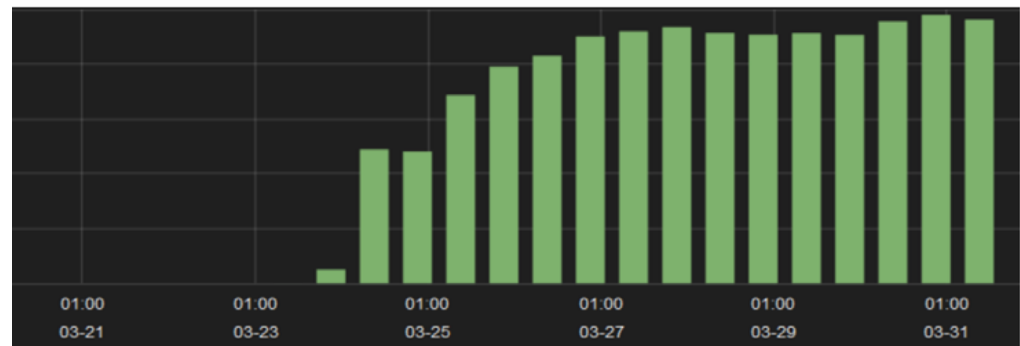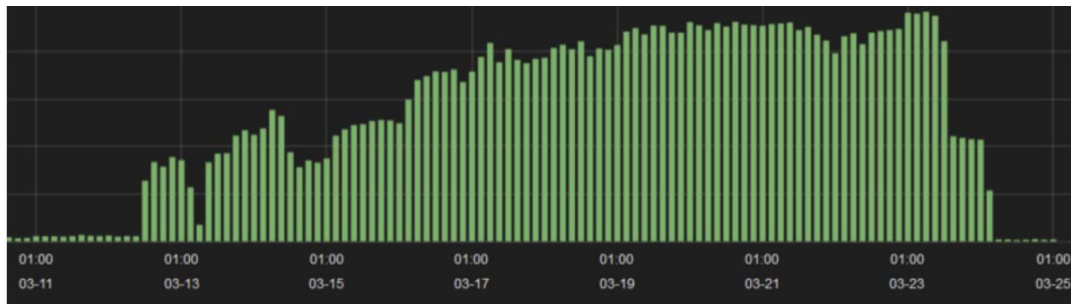
Network

Application

Device

Layered Security Model

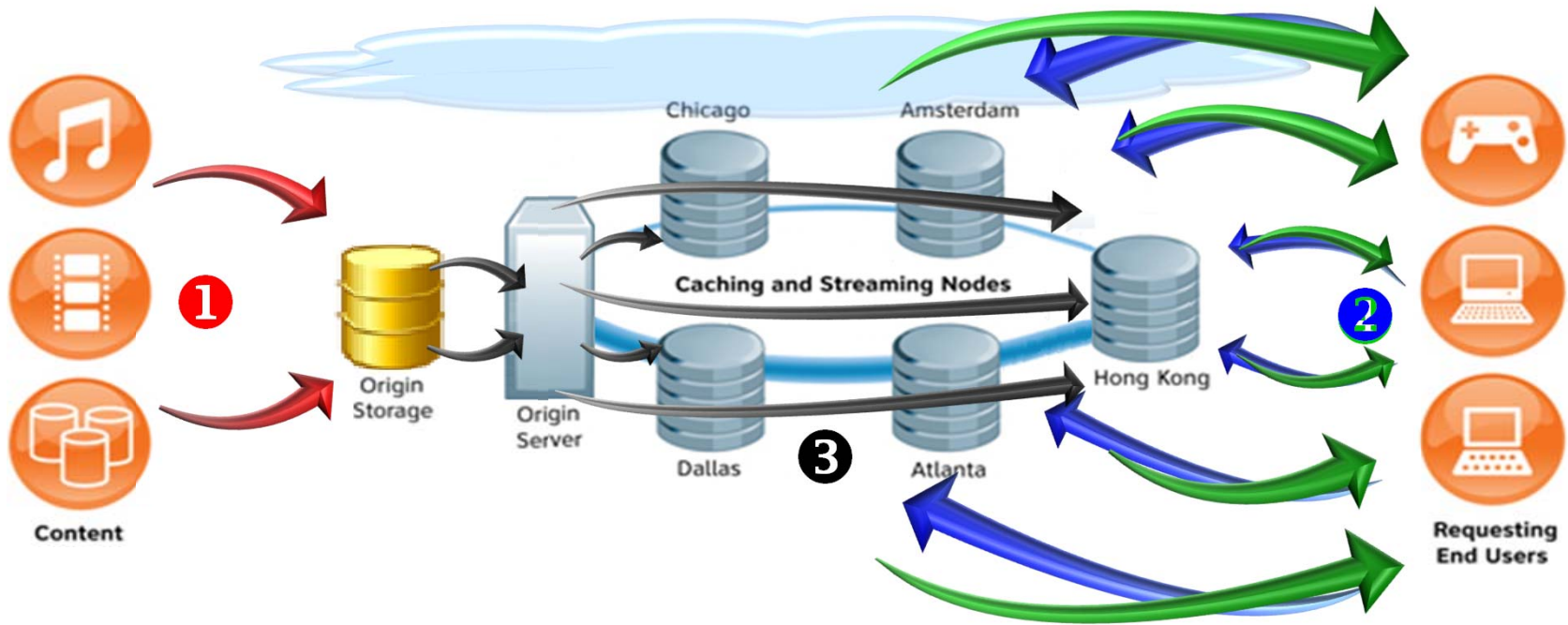# Teamwork of Security Vendor, NEP, Carrier and More

Point of Sale Malware: PoSeidon Use Case

Source: Level 3[sm] Threat Research Labs, May, 2015

Content Delivery Network

HTTP 2 – the Future is Now

http/2

- ● More Secured

- ● Performance
  - • More compact and less error-prone
  - • Fully multiplexed, instead of ordered and blocking
  - • Fewer TCP Connects and SSL Handshakes
  - • Header compression to reduce overhead
  - • Allows servers to "push" responses proactively into client caches

Thank you!