



#### Security Trends Today

Network security landscape has changed. CISOs "Treading Water"



Pouring money into security, yet not any more secure - Average of 4000 nodes with 5 security vendors



Risks posed by threats versus risks to business outcomes



Metrics of success: total number of attacks stopped vs reduction of risk



Attackers are always gaining, staying ahead



# Threats are Everywhere

Perimeter security isn't enough.
Malware walks in with your employee!
Stop Threats. Faster.



Increasing sophistication



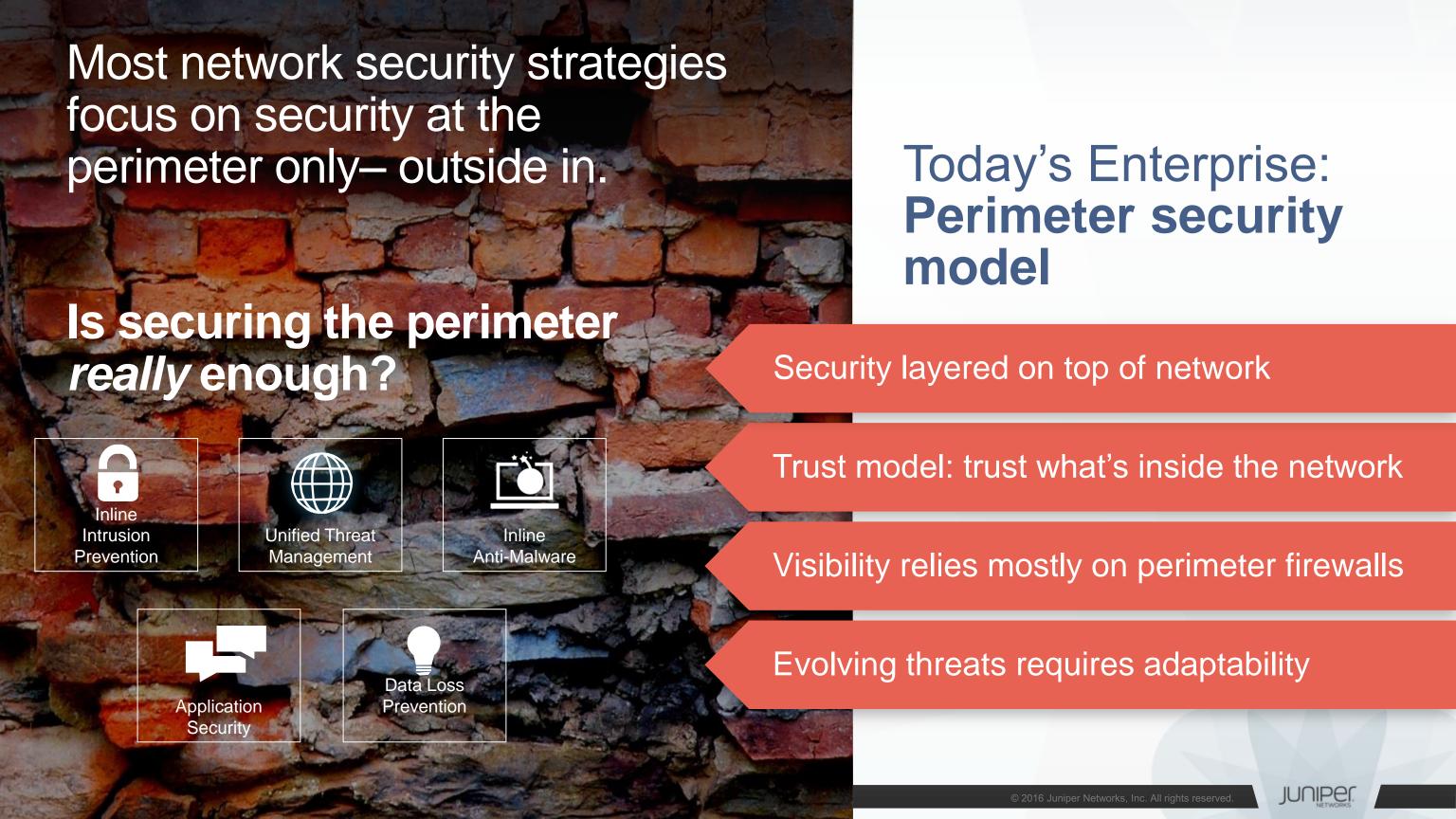
Increasing variability



Threats are already inside



Keeping data secure throughout your network is key!





# A Change in Mindset

Stop talking about Network Security. Start talking about Secure Networks.



Realize threats are everywhere. They are already inside. They walked in your front door



Recognize perimeter security isn't enough



Detection and Enforcement should be enabled anywhere



Acknowledge security is everyone's problem – horizontal and vertical





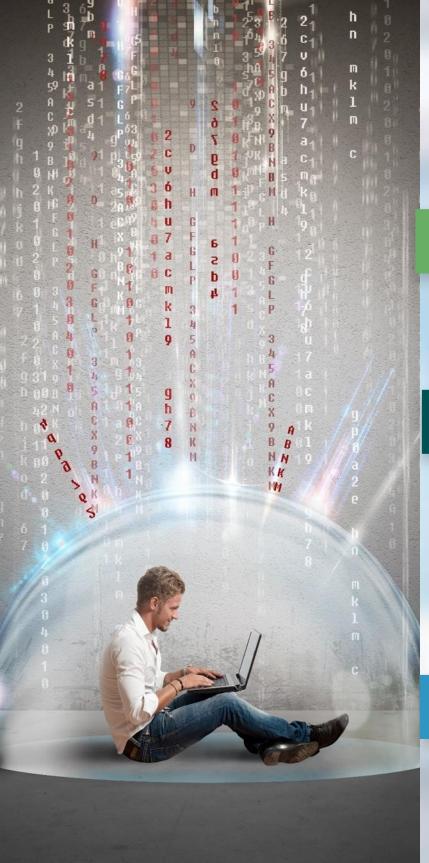
# Normal and Abnormal Behavior

Normal operation: call home beacons, energy utilization

Aberrant behavior: bursting traffic, abnormal high data download rate

Is this normal? How to mitigate risk?





#### The Software Defined Secure Network

Operate network as single enforcement domain, every element becomes a policy enforcement point

#### **Policy**



Create and centrally manage policy in natural language

#### **Detection**



Gather and distribute threat intelligence, from multiple sources



Leverage cloud economics for real time analysis

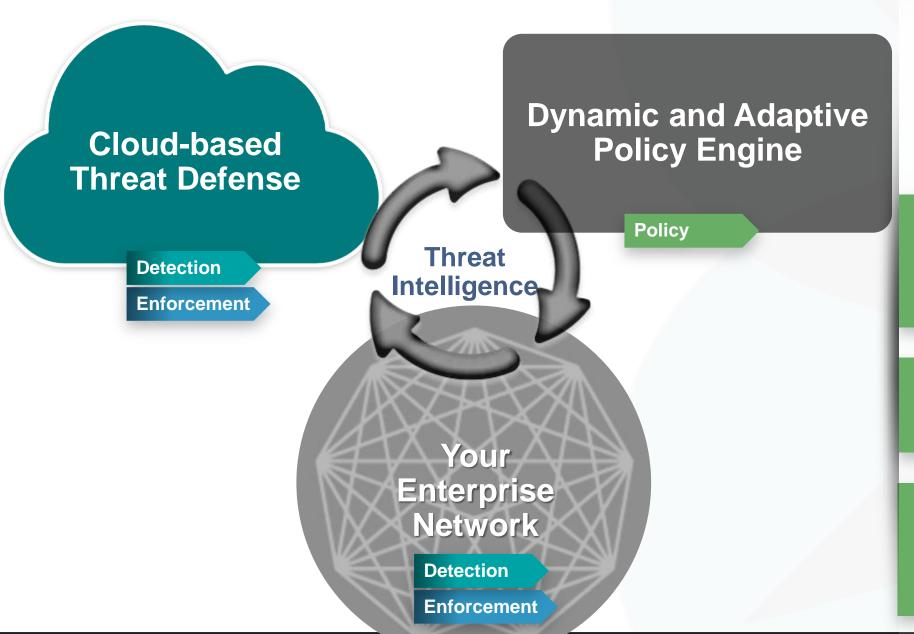
#### **Enforcement**



Adapt and enforce policy to the threat feed information, real time across the network.

#### Software-Defined Secure Network

Policy, Detection & Enforcement



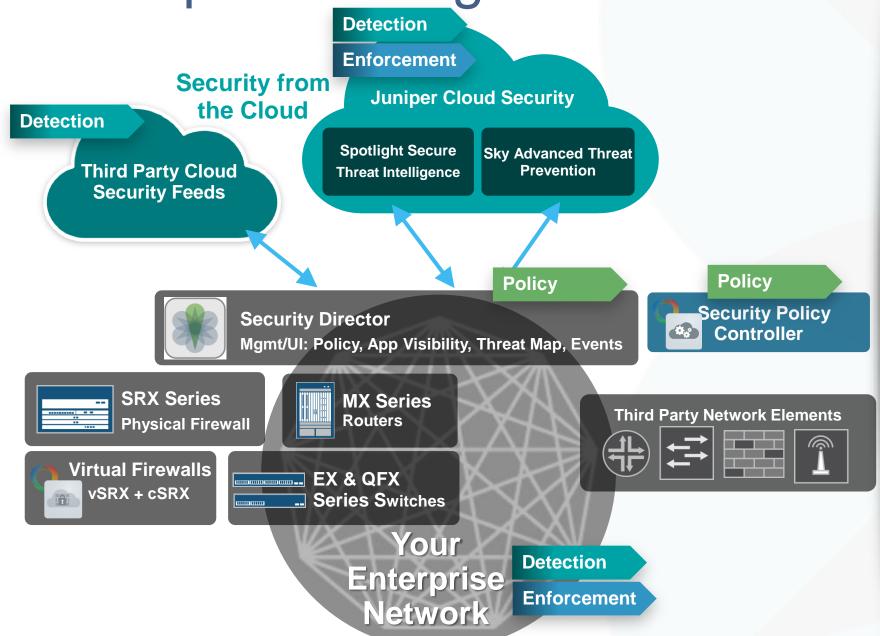
#### Bottoms Up and Top Down Approach -

Leverage entire network and ecosystem for threat intelligence and detection

Utilize any point of the network as a point of enforcement

**Dynamically execute policy** across all network elements including third party devices

Software-Defined Secure Network Juniper Building Blocks



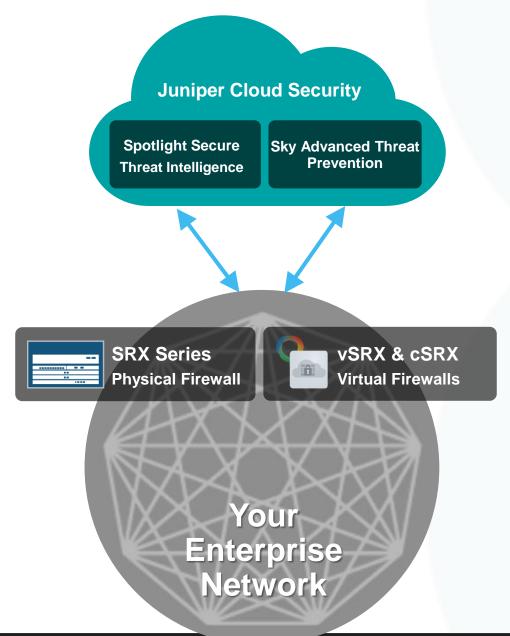
# Comprehensive suite of products: Centralize and automate security

Instant threat intelligence and detection

Dynamically adapting policy, deployed in real-time

Consistent firewall capabilities – physical and virtual

#### Where to Start – Modernize Your Perimeter

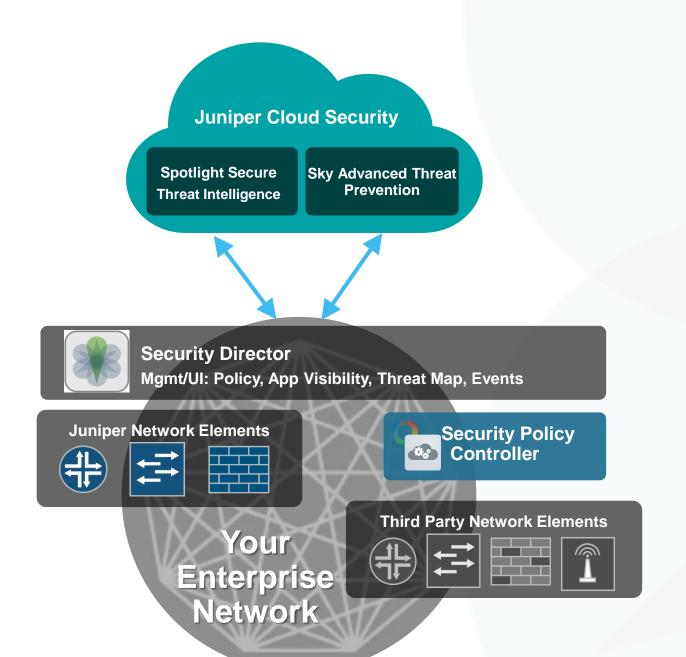


#### Upgrade your perimeter to make it adaptable

Next Generation Firewall is Current Generation Firewall – simplify and remove niche security appliances

**Utilize Cloud Economics for Instant** Intelligence that Leads to More Effective Detection

#### Converse With Your Network



#### Deploy Policy Engine that Communicates with Your Network

**Analytics Capability Based on Network Data** 

Customizable UI Provides Data Correlation

Utilize All Network Elements as **Detection & Enforcement Points** 

Future: Intent Based Policy Engine to Communicate Across Any **Network Element** 

#### The Right Policy for the Right Job

Software Defined Secure Network (SDSN)

Policy Engine + Controller





Example 1

Example 2

#### Different threat levels need different policies

Aberrant lightbulb: quarantine and create new policy for correct behavior

Compromised core switch? The right policy for the right level of threat

# Juniper's Security Vision

From Network Security to Secure Networks

Only one in the industry with building blocks for tomorrow's Software-Defined Secure Network

- Simplified Policy and Management across all network elements
- Adaptable Security Solution based on real time threat intelligence information
- Cost Effective Detection and Enforcement utilizing the entire network to protect you

The Juniper Software-Defined Secure Network dynamically adapts to changing threat landscape...so you don't have to!



