

Palo Alto Networks Security Platform

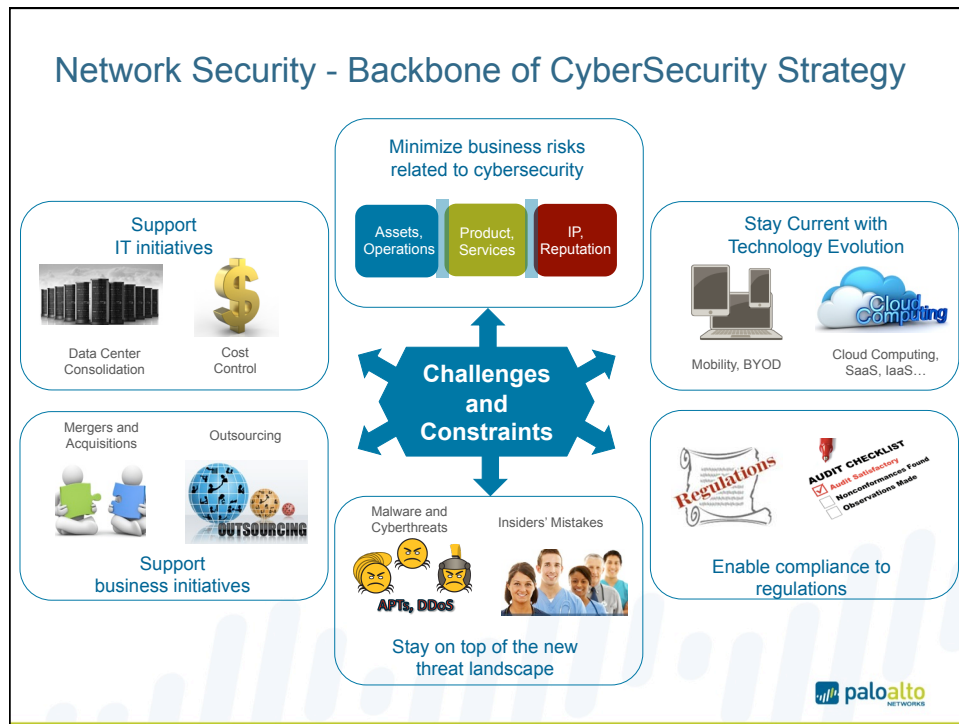
*Protect your Business
Minimize Risks*



Outline

- Network security: Challenges and Constraints
- Our innovative approach
- Applied to:
 - Data Center Simplification
 - Mobility
 - Compliance
- High Performance
- World Class Services
- Cost savings
- Summary

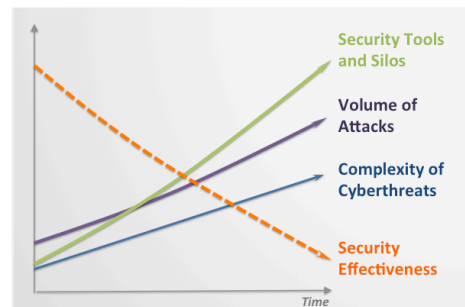


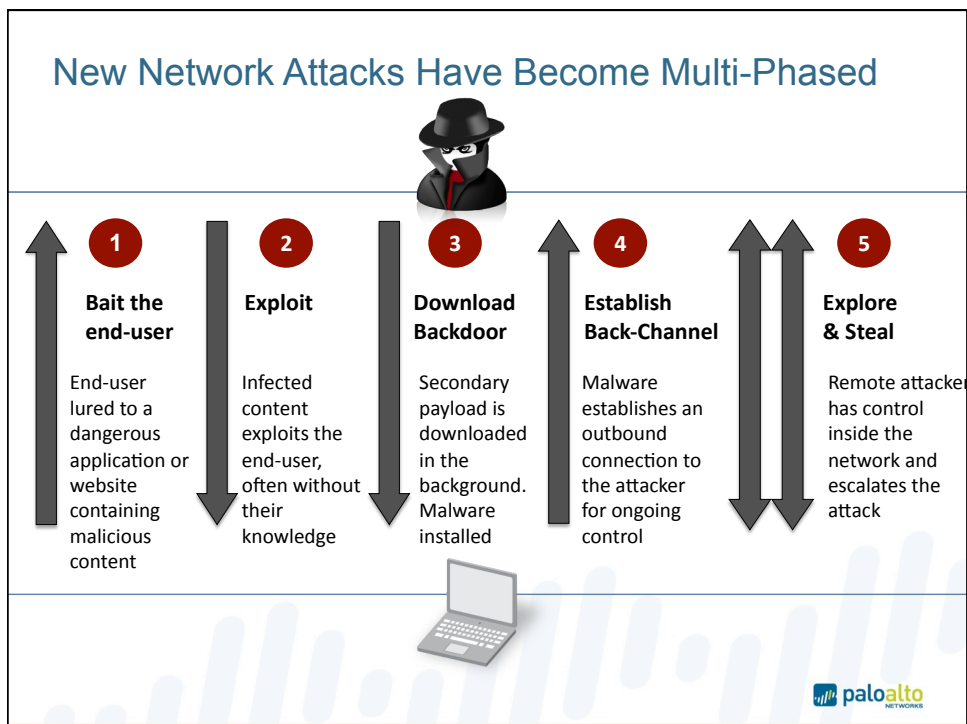


The Economic Factor

- Cyberattacks are more frequent and more sophisticated
- There's been a proliferation of security tools to tackle this new challenge
- But this has resulted in a siloed, complex security approach
- Security teams can no longer provide the business with clear and consistent answers on cyber risks
- ... and changes come with high risks of breaking what's in place

How effective is your network security in light of your spending?





Advanced Persistent Threat (APT) ≠ Malware

- A = Advanced
 - Use of (always) newer techniques and entry points
 - Mostly not in the wild
- P = Persistent
 - Goal is to succeed; whatever and how many iterations it takes
 - Mostly the target is intelligence, not mass infection
 - Average time to find a breach is about “243” (according to Mandiant)
- T = Threat
 - Not specifically a malware or attack
 - Risk to loose the network or confidential data
- How to fight the ‘P’?
 - **NO** single point solution can help you
 - Fully integrated (network) security is a must
 - Complemented with ‘Kill Chain’ analysis
- ‘Unknown’ malware detection is **NOT** an APT solution, yet an ‘A’ component

Huge TCO without Palo Alto Networks

Best of breed and UTM have limited effect, yet a high cost:

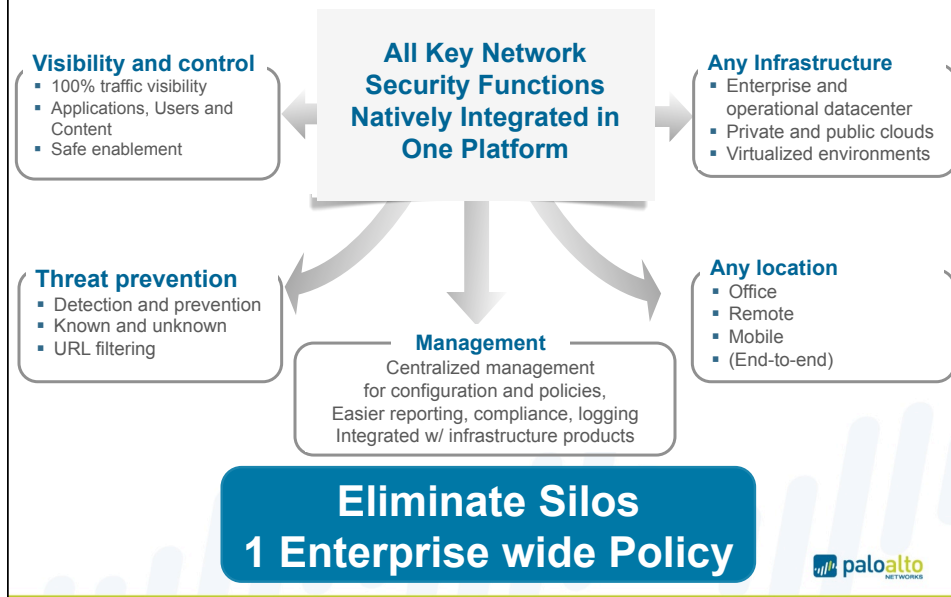
- Staffing and time to market
 - Multiple management interfaces and complex integration needs
- Operations
 - Required updates and security/policy changes are complex and take time
- Accuracy
 - Products speak different languages
 - Monitoring requires yet additional tools
- Effectiveness
 - Multi Phase attacks might be missed because they hit different solutions



Palo Alto Networks Innovative Approach



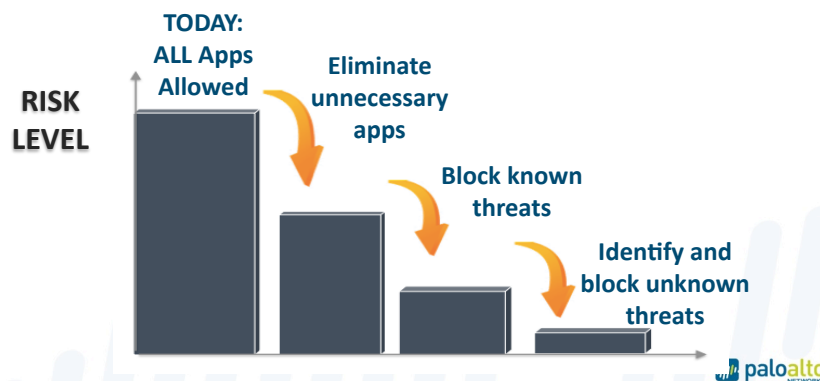
Palo Alto Networks' Unique and Innovative Approach



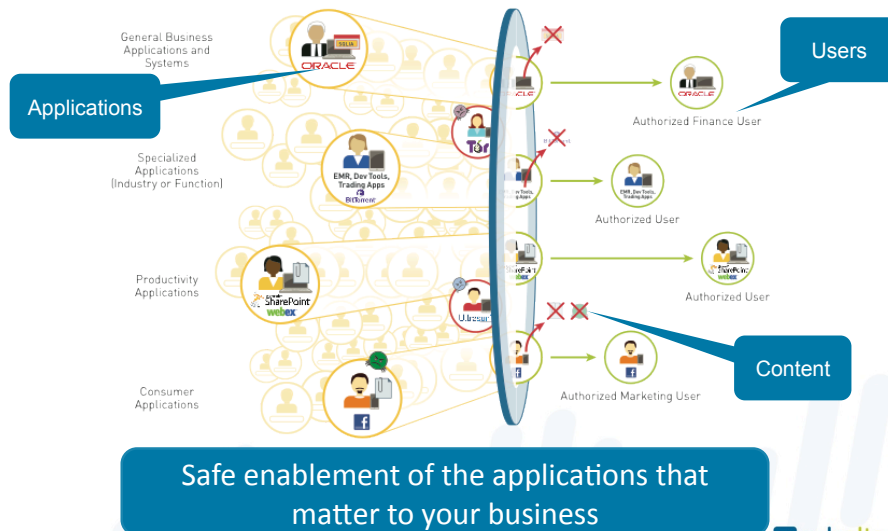
Achieve 100% visibility into Network Traffic

Why?

- Decide which applications to allow
- Eliminate unknowns
- Reduce the scope of your security challenge
- Enable your security teams to focus on what matters

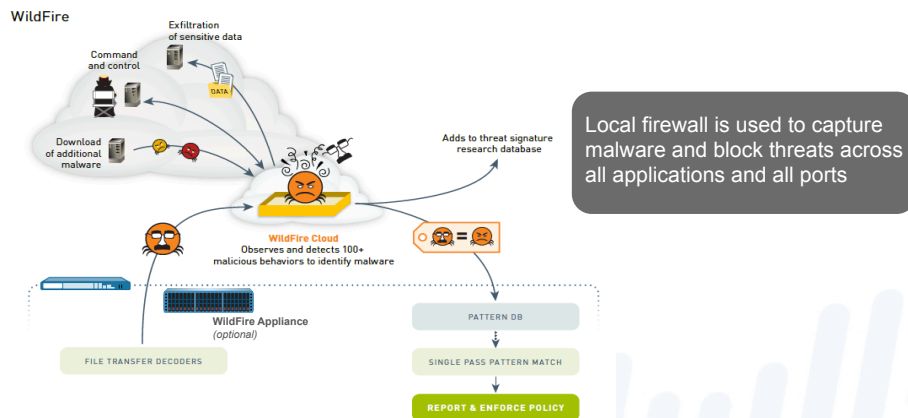


Translate a Policy into a Policy



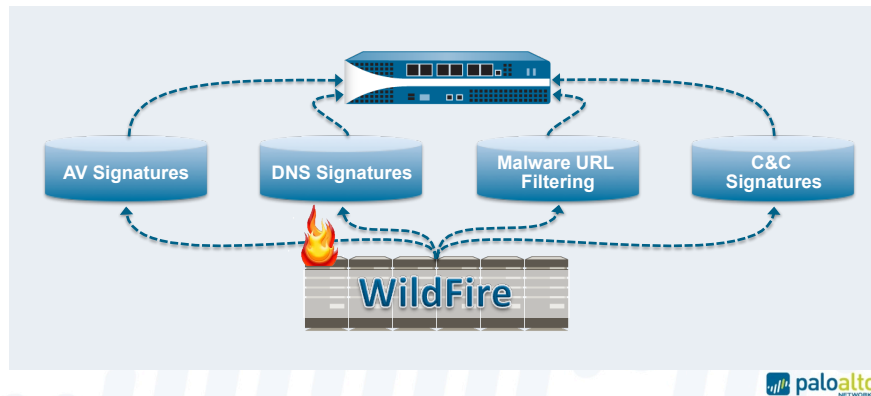
WildFire Advantage

- WildFire is built on the technology of the next-generation firewall
 - Identifies file transfers within applications regardless of port/protocol
 - Provides support for SSL to see malware inside encrypted sessions

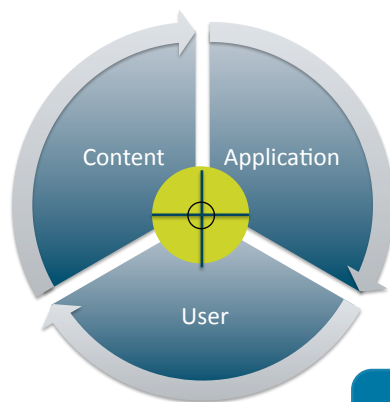


Conclusion: Comprehensive Action Against New Threats

- Execute unknown files to reveal malware based on actual behavior
- **Feed back results into all phases of threat prevention**
- Block new threats, instead of just detecting them
- 1 single solution/management, NO additional malware point product
- Perfect building block in a global 'APT' defense strategy



Clarity and Control with Business-Relevant Policies



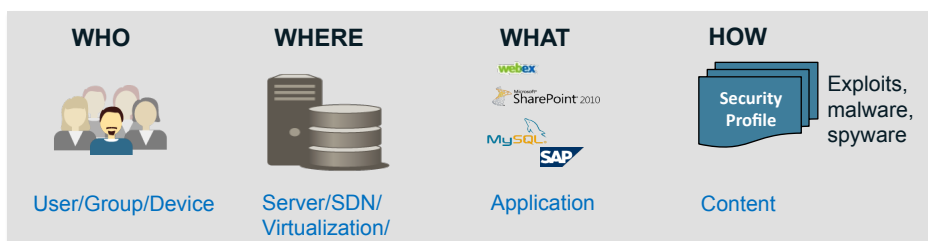
- Applications and users become the basis for access decisions
- Application and user are known when scanning content
- Applications and users are at fingertips in logs and reports
- Application, user, and content are all part of a single context, eliminating the need for complex data integration

Business and IT can effectively collaborate on security decisions

Datacenter, Cloud Computing, Virtualization



Our Safe Enablement Approach Applied to the Datacenter




- Segment applications by function, trust levels, and compliance needs
- Inspect all traffic between security zones by default
- Systematically manage unknown traffic

Reduce the scope of your security challenge



Unique Technologies to Secure Your Datacenter

Physical and Virtual Solutions	<ul style="list-style-type: none"> • Physical form factor (PA5000 series) • Virtual form factor (VM-Series) • Native VMWare NSX integration • 1 feature set, independent of the form factor 
Full support for Virtualization	<ul style="list-style-type: none"> • Policies that are natively integrated with VMWare objects • Firewalls automatically deployed in Virtual Infrastructure • Finally a fully integrated and cost efficient SDN design
Flexible integration	<ul style="list-style-type: none"> • Plugged directly into the hypervisor • NO (virtual) network change requirements • Traffic insertion via VMWare NSX hypervisor rules • Rock solid User Identity
Centralized management	<ul style="list-style-type: none"> • Centralized provisioning, logging and reporting • 1 integrated policy for the physical and virtual devices



Extended Mobile Enterprise

CyberSecurity does NOT stop at the Campus Perimeter



Mobile security – not just about Connectivity

- Many App-IDs cover for the mobile app versions as well
- Over 130,000 Android APK malware signatures added and growing
- Partnerships with key MDM and Intelligence vendors



Globally Protect Users and Content

- Needs
 - Consistent user experience
 - Unified policy
 - Transparent security enforcement
 - Best performance possible
 - Supporting traditional and mobile devices
 - No complex endpoint components/enforcement
- Building Blocks
 - Re-use existing infrastructure and User aware policies
 - Lightweight agent connects devices automatically to the enterprise network
- 'Integrated Secure Mobility' means
 - Less (complex) policies = Lower management cost
 - Less devices = Lower TCO = Less administration, support contracts, ...
 - ROI: 1 single solution of proven enterprise wide 'Enforcement' points

Network Security and Compliance



Network Security and Compliance

- Every business is subject to regulations
 - These vary by country and industry
 - PCI DSS compliance, HIPAA in healthcare, NERC-CIP in energy
- Non-compliance results in financial penalties
- Compliance audit and report is often done by 3rd party
 - Can be costly and complex
- Audit scope can encompass entire network – all locations, servers, users, traffic – adequate reporting is a key component



Communication gap between compliance requirements (defined in business terms) and network topology (IP, ports..)



Palo Alto Networks Facilitates Compliance and Audits

1. Network Segmentation

- Limit the scope of compliance audits: only relevant servers are subject to the audit

2. Applications, Users, Content based Traffic Control

- Audit report created automatically at the right level of information
- No need to collect and integrate data from multiple sources

3. Integration with 3rd parties supports more stringent requirements

- Example: Tufin for deeper audit of configuration and change management activities

4. Centralized management streamlines the audit process

- Consistent policies, reporting, and logging across locations with one view of all appliances

100% visibility and control

**WHO uses WHICH
Application for WHAT**



**Streamlined
Compliance and
Audits**

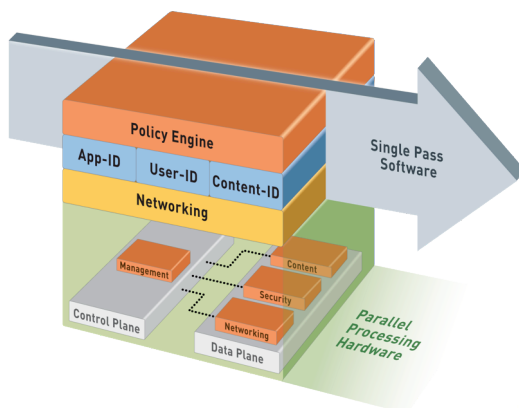


High performance platform



High Performance Architecture

Single-pass, Parallel Processing



- Redesigned from the ground up with next-generation and **future** security requirements in mind
- Single-pass processing
 - Performs app, user, content scanning **once** per packet
 - **One** policy that integrates apps, user and content
- Parallel processing hardware
 - **Function-specific** parallel processing HW engines
 - Separate data plane and control plane



World Class Services

Customer Satisfaction Is Our Goal



Global Delivery and Scalability, Local Presence

- Technical Assistance Centers World Wide
- Online Self-Help at the Customer's Convenience
- RMA Depots Placed Strategically Around the World for Optimal Delivery
- Professional Services as well as Education Services offerings



Management, Costs

Simplify, and Lower Operational Costs

- Fewer appliances and policies to deploy and maintain (5x)
- One management platform - across security functions and locations
- Business relevant policies
 - Fewer translation errors between business and technical teams
 - Better security decisions
- No data or communication silos
 - Reporting, and compliance audits are made easier
- Better performance

Capex
30%-80% savings

Opex
40%-65% savings

+ Soft savings



Summary



Future proof your network security with Palo Alto Networks

Your Imperatives

1. Protect your company from cyber risks
2. Gain full control over your organization security and related investments
3. Drive business initiatives faster than ever without concern about security

Our Innovative Technology

End-to-end security that stops known threats, and zero-day attacks

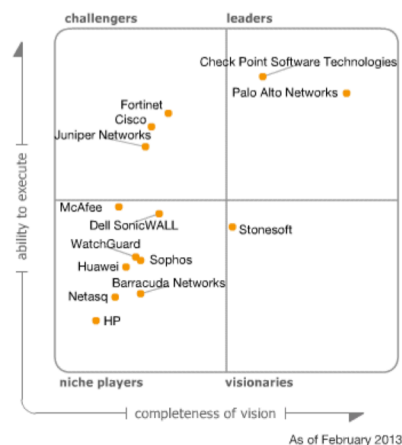
Relevant, consistent and manageable security applied everywhere security matters

Flexible, and adaptable to technology changes



Magic Quadrant for Enterprise Network Firewalls

"Palo Alto Networks continues to both drive competitors to react in the firewall market and to move the overall firewall market forward. It is assessed as a Leader, mostly because of its NGFW design, direction of the market along the NGFW path, consistent displacement of competitors, rapidly increasing revenue and market share, and market disruption that forces competitors in all quadrants to react."



Source: Gartner (February 2013)



Many Third Parties Reach Same Conclusion

- Gartner Enterprise Network Firewall Magic Quadrant
 - Palo Alto Networks leading the market
- Forrester IPS Market Overview
 - Strong IPS solution; demonstrates effective consolidation
- NetworkWorld Test
 - Most stringent NGFW test to date; validated sustained performance
- NSS Tests
 - IPS: Palo Alto Networks NGFW tested against competitors' standalone IPS devices; NSS Recommended
 - Firewall: Traditional port-based firewall test; NSS Recommended
 - NGFW: FW + IPS test; NSS Recommended



the network security company™