Security 2.0: Balancing Business Enablement and Information Security

10 New Requirements for Your Business

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Why Your Current Firewall is Obsolete
More Boxes, More Cost, More Complexity
What Should You Do Now?

INSANITY:
Doing the same thing over and over again and expecting different results
Innovate or Die
Which Company is the Innovator?
This is all quite interesting but . . .

What does this have to do with Network Security?
Merely having an IPS in the same appliance as the firewall is not an NGFW. The products must be **tightly coupled**, interoperate, and have **intelligent traffic handling**, traffic inspection and blocking.
2007 – Introducing Next-Generation Firewalls

Applications - Users - Content
2009 – Gartner Defines NGFW Requirements

✓ Application Awareness and Full Stack Visibility

✓ Integrated Rather Than Co-Located IPS

✓ Extra-Firewall Intelligence to Identify Users

✓ Standard First-Generation Firewall Capabilities

✓ Support “bump in the wire” Deployments
2010 – Gartner MQ – Who is the Innovator?

- Palo Alto Networks
- Check Point Software Technologies
- Juniper Networks
- Cisco
- Fortinet
- McAfee
- Stonesoft
- SonicWALL
- WatchGuard
- NETASQ
- Astaro
- phion
- 3Com/H3C

As of March 2010

Source: Gartner
2011 - Enterprise 2.0 is Just Getting Started
Gartner Recommendation – Innovate Now

Synchronize the refresh cycle of your network firewalls and IPS products, and use that opportunity to **migrate to next-generation** firewalls.
What Your Next Firewall Must Do for You

and how it will help your business
1) Identify and Control All Applications, All Ports

Internet applications account for 70%+ of corporate network traffic.

Controlling all applications is necessary to control the business.
SSL traffic accounts for 15-50% of network traffic – on many ports. Businesses need to balance personal privacy with IT security.
Unknown traffic could be legitimate, or a threat to the business. All your traffic – including unknown – must be controlled by policy.
4) Identify and Control Security Circumventors

Circumventors create open paths for inbound threats, outbound leakage. Blocking circumventors is necessary for risk mitigation.
Multiple applications can be launched in a single session.
Visibility and policy control must be maintained throughout session.
Sharepoint is a collaborative application with multiple functions. Businesses must control functions – by user – for safe enablement.
Collaborative applications improve communications and productivity. All inbound and outbound data must be scanned to protect the business.
Employees are increasingly working outside the corporate network. Policies must be enforce based on laptop security, app functions.
9) Integrate Security Intelligence and Policy Control

Security policies must be unified and simplified to be effective. Controlling applications, users, content ensures IT-business alignment.
Visibility and control must be enabled, continuous process

This process must not impact performance of the business.
The Value of Innovation to Your Business

Regain visibility and control of three key business assets:

**Applications** – safely enable Enterprise 2.0 for the business

**Users** – ensure that they are safe and productive

**Content** – stop threats to business, control data leakage
Where to Find This Innovation

Next-Generation Firewalls

Complete visibility and control of all Applications, Users, and Content
Performance up to 20Gbps
Elegant Integration of Next-Generation Firewall + IPS

**Step 1**
Reduce the attack surface

- Block 113 P2P applications with a single policy
- Block evasive apps IPS can't see
- Limit high risk applications to specific users

**Step 2**
Clean allowed applications

- Scan SharePoint for IIS and SQL related threats
- Scan Facebook for application threats – Koobface, etc.
- Disable high risk app functions

**Step 3**
Alignment IT-business

- Minimize the risks
- Maximize the rewards

Internet applications and threats

- BitTorrent
- Facebook
- LogMeIn
- Skype
- Tor
- GMail
- YouTube
- Meebo
- SharePoint
- Live365
- Broadcast Yourself

IT-business

- Palo Alto Networks
Learn More About Next Generation Firewalls

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