



FORTINET™

THE POWER IN NETWORK PROTECTION

校園資訊安全之威脅與因應

劉乙 Jim Liu
Technical Director
Fortinet.Taiwan
0912214906
jimliu@fortinet.com

Agenda

- Fortinet 簡介
- 資訊網路潛在威脅之探討分析
- ASIC Base防毒防駭即時防護系統
- 網路安全報表統計與分析工具

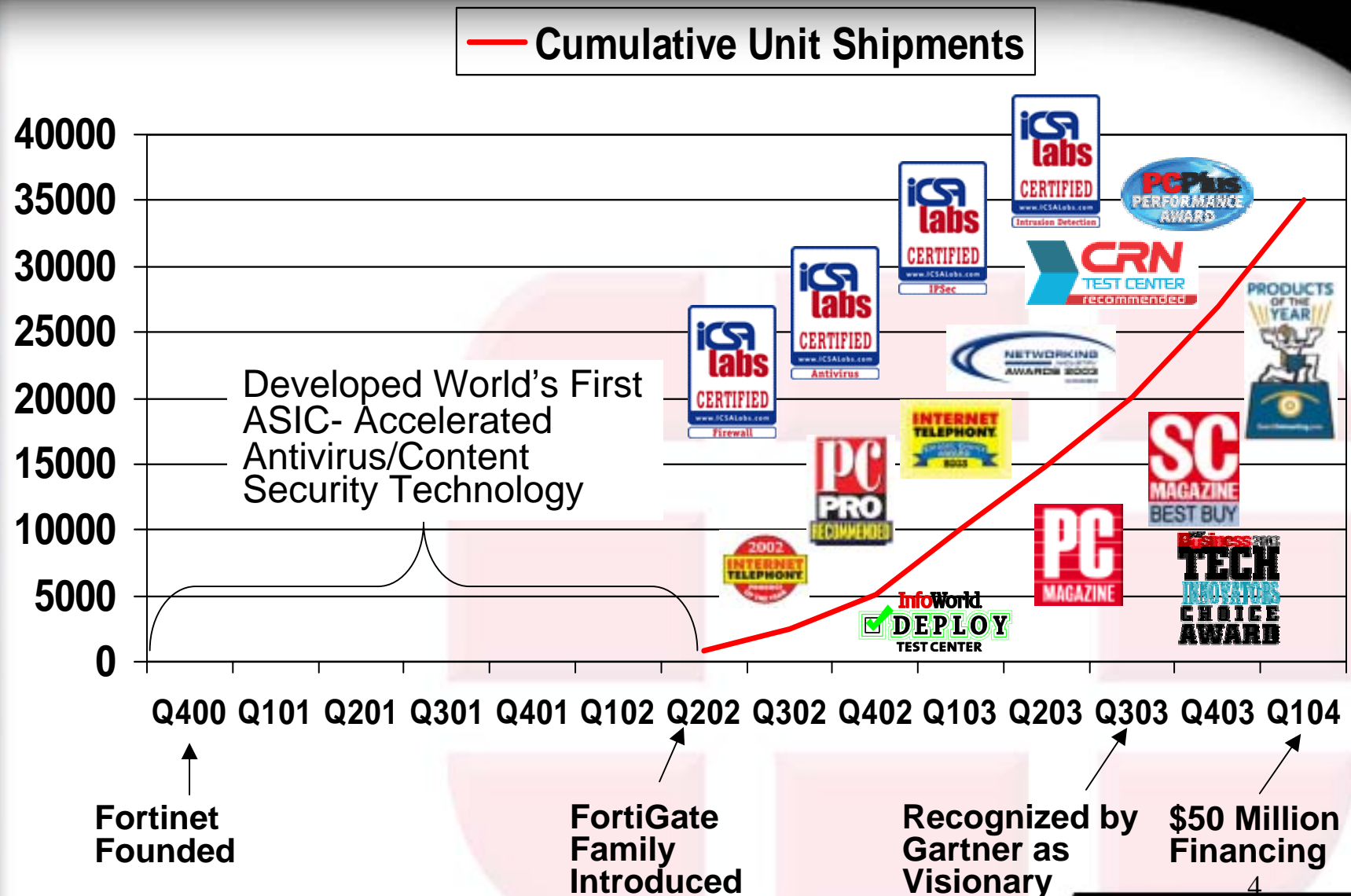
The Fortinet logo is displayed in a white, stylized, blocky font within a black rectangular box with rounded corners. The letter 'O' is replaced by a red and black checkered pattern. A small 'TM' trademark symbol is located at the end of the word.

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Fortinet 簡介 --- Who is Fortinet ?

A History of Rapid Growth and Achievement



Fortinet Company Overview

- **Founded October, 2000 by Ken Xie**
 - Founder, former Pres. & CEO of NetScreen (NASDAQ: NSCN)
- **Over 350 employees; HQ in Sunnyvale, CA**
 - Offices throughout Americas, Asia, and EMEA
 - Tokyo, Seoul, Beijing, Shanghai, Hong Kong, Taipei, Singapore, KL, Melbourne, etc.
 - Belgium, France, Germany, Italy, Sweden, UK
- **Creators of world's only ASIC-powered antivirus systems**
 - Addressing the need for real-time network protection
- **Achieved >10x revenue growth in 2003 vs. 2002**
 - Over 50,000 units shipped in under 2 and half of years
- **Completed \$50 million mezzanine financing Feb 2004**
 - Positioned for continued rapid growth

Fortinet is Driving a Major Shift in the Evolving Security Market



Gartner

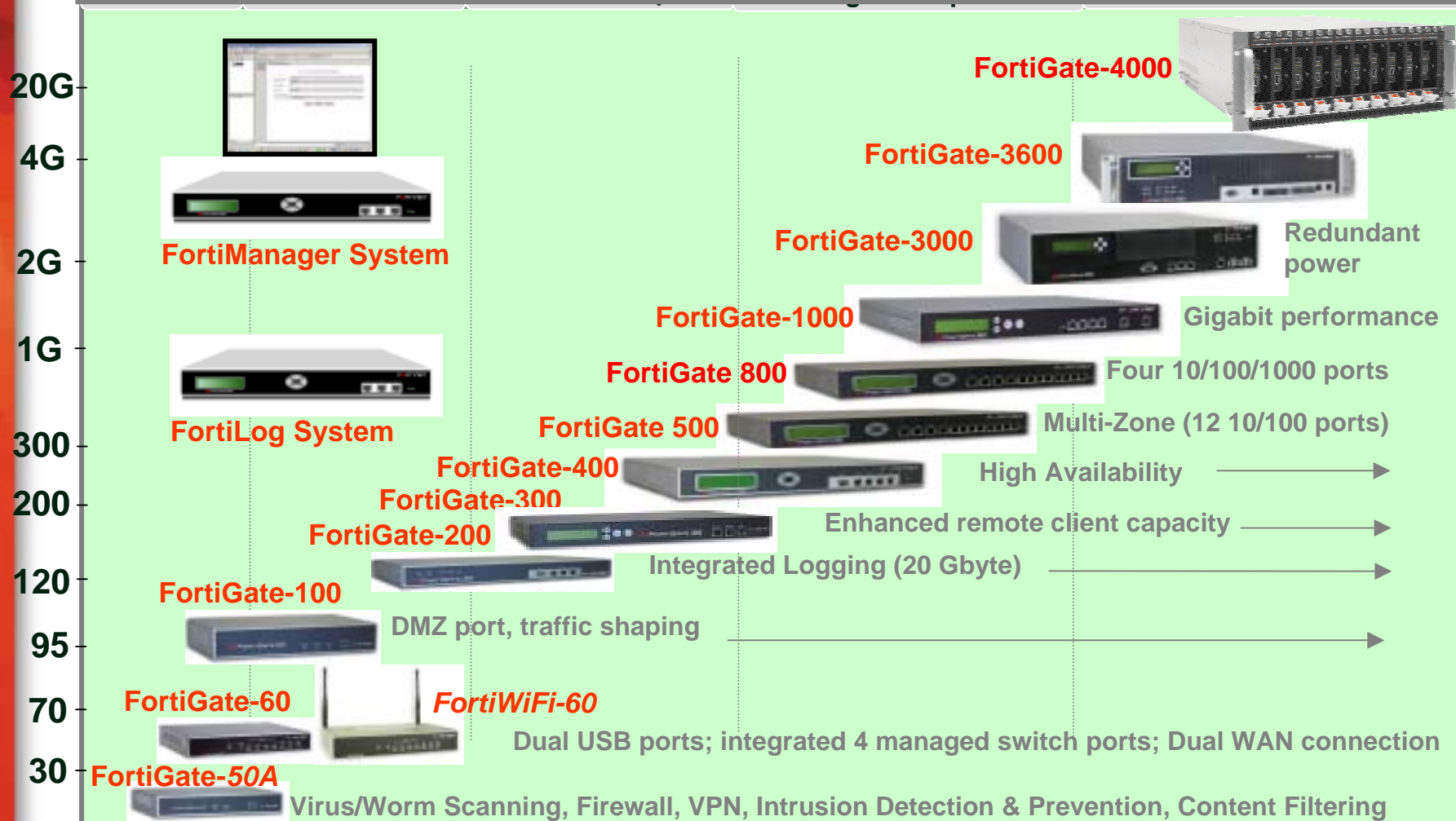
“...Firewalls must provide a wider range of intrusion prevention capabilities, or face extinction...”

“Fortinet has demonstrated its investment in powerful network processing technology by filtering viruses in-line, which requires an unprecedented level of packet assembly and filtering.”

The FortiGate Family Scales from SOHO to Service Provider

FortiGate Product Family

Performance (Mbps)



Capabilities

FORTINET



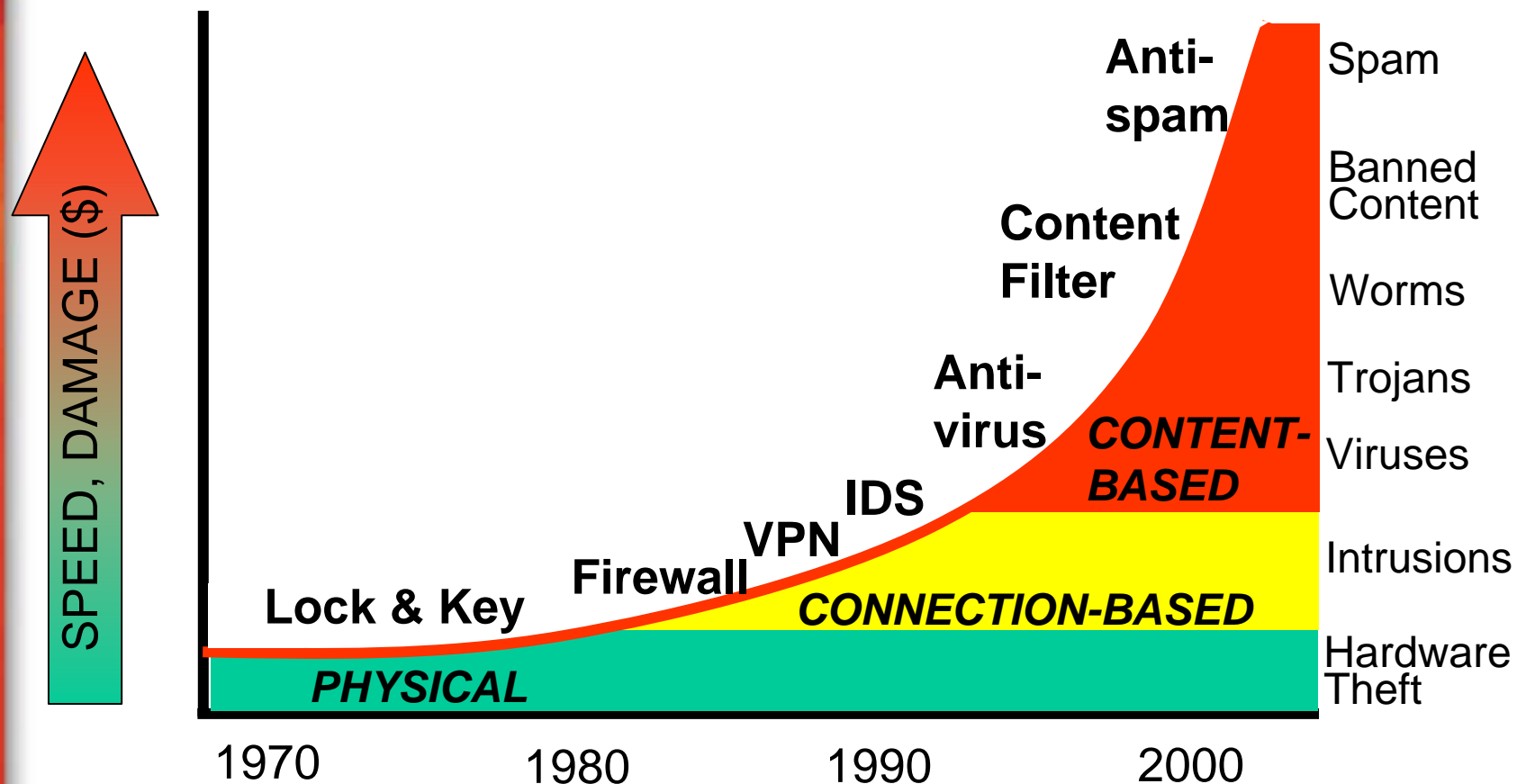
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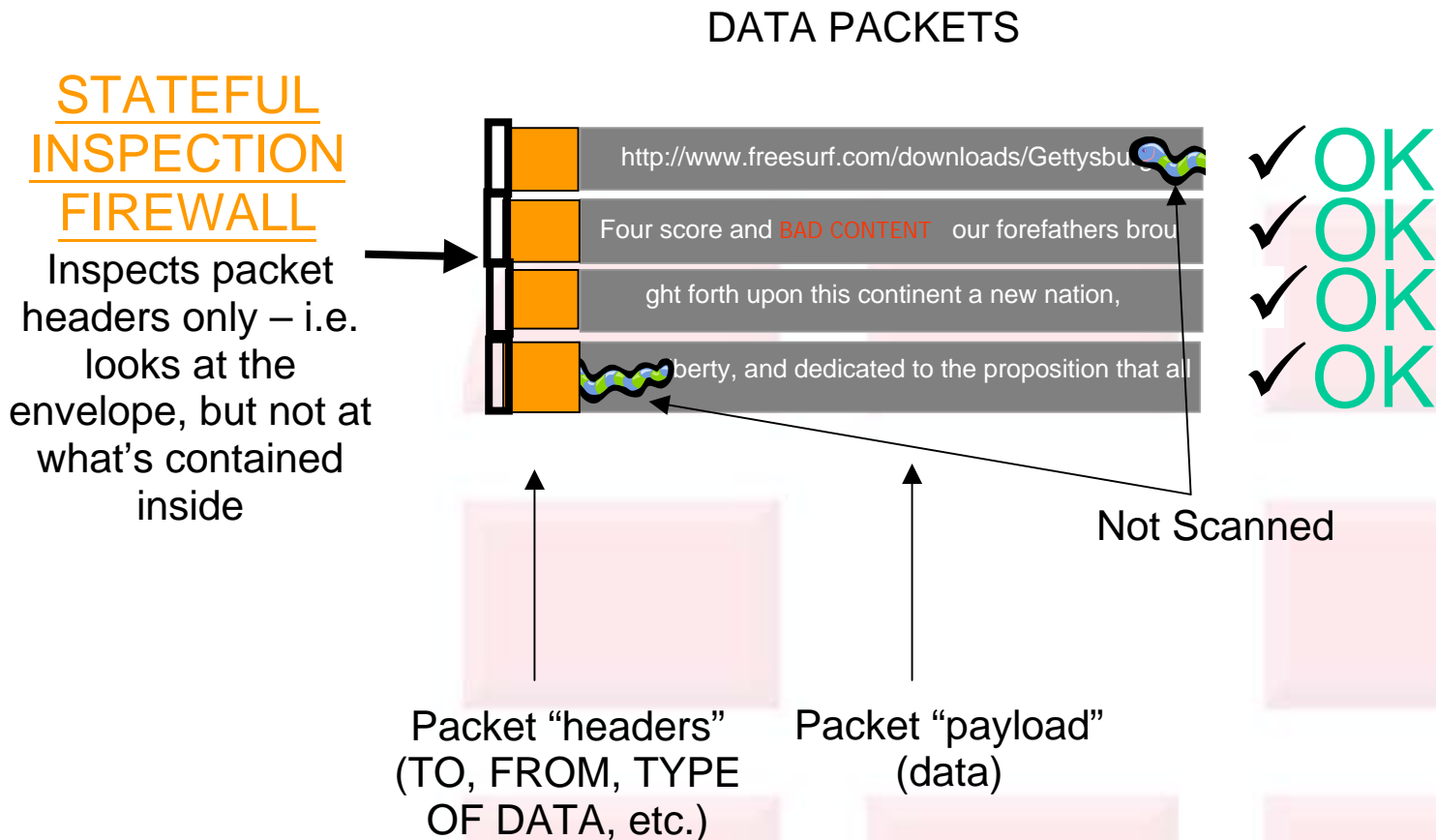
資訊網路潛在威脅之探討分析

The Nature of Threats Has Evolved...

Major Pain Points for Organizations of all Types



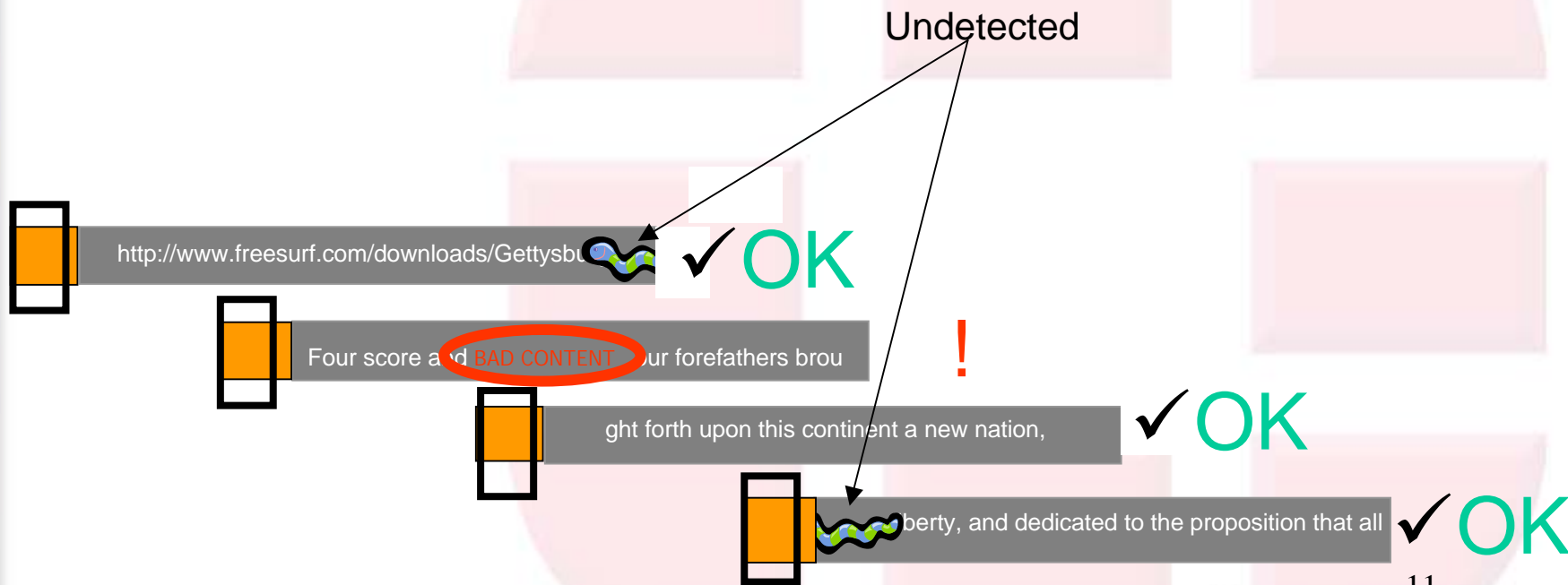
Firewalls Don't Analyze Contents so they Miss Content Attacks



Some Firewalls Claim to do “Deep Packet Inspection” – But They Still Miss a Lot

DEEP PACKET INSPECTION

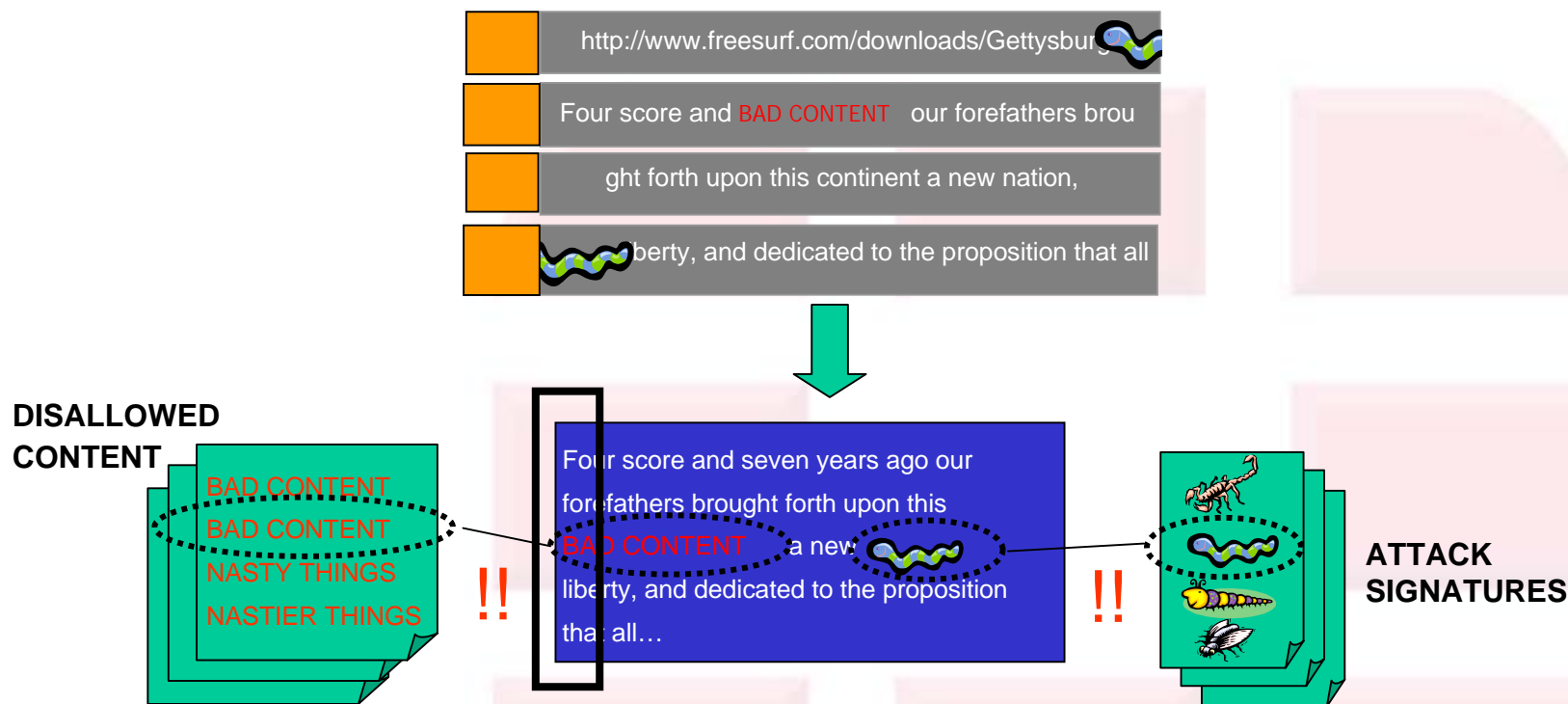
Performs a packet-by-packet inspection of contents
– but can easily miss complex attacks that span multiple packets



To Stop Content-Based Threats Requires More than Deep Packet Inspection

COMPLETE CONTENT PROTECTION

1. Reassemble packets into content



2. Compare against disallowed content and attack lists

使用網路銀行防毒、防駭缺一不可

記者歐陽宜珊 / 台北報導

2004-4-01 18:40

Firewall

CA憑證/SSL

One Time Pass

針對日前台灣出現網路銀行帳號被木馬程式竊取密碼而盜領的犯罪案例，雖然銀行立即向警方報案，且清查之後發現只有少數幾位受害者。若消費者的電腦被植入後門或是因為中毒，必須自行負擔損失。另外，若是習慣使用簡單密碼的用戶也要注意，駭客隨時可猜中密碼，而盜領銀行的錢。因此加強電腦防毒、防駭及強化身份認證機制成了當前重要的一環。

此次出現的案例，駭客是透過電子郵件或惡意網站等手法將木馬或後門程式植入受害者電腦，當使用者登入網路銀行時，木馬程式就將受害者在鍵盤上輸入的帳號及密碼等資料予以記錄，接著再將竊取到的資料，透過電子郵件或檔案傳送等手法傳至指定的網址，歹徒再透過「非約定帳戶」轉帳功能，盜領成功。

如果加裝用戶端數位憑證，也不能杜絕所有木馬或後門問題。只能增加入侵的複雜度，駭客還是有可能透過木馬竊走使用者密碼、數位憑證與私密金鑰。若使用IC卡或「一次密碼器」(Token)，也無法完全避免駭客利用木馬或後門進行盜領。駭客還是有可能在背景發出假交易或竄改交易內容，甚至可讓IC卡對假冒的交易內容進行數位簽章，除了利用此方式取得帳號外，多數人常用懶人密碼設定，雖然連續三次不對，帳號會被鎖定，不過若使用破解密碼的軟體，一次即可猜中。因此，如果要避免被駭客盜取密碼帳號，消費者在設定時，必須英文、數字混合使用，且至少應包含2個大小寫英文字母或符號、密碼與代號間不可相同。

網銀用戶須防堵木馬程式開後門竊密碼盜存款

(中央社記者韋樞台北四日電)

Anti-Virus

IDS/IPS

日前傳出數家網路銀行的客戶遭駭客盜領，事實上，此事件責任釐清後網路銀行並沒有安全疏失，主要原因是個人的安全防護出現大缺口，資訊安全廠商已經掌握到肇禍的木馬程式是Backdoor.Powerspider.B，駭客利用鍵盤側錄功能盜取存戶的密碼，將存戶的存款提領一空。

Backdoor.Powerspider.B，這類程式會偽裝成IE的名稱 iexplore.exe，駭客透過電子郵件或網頁，甚至是p2p程式等多種方式將此程式植入受害者電腦，利用鍵盤側錄的功能(keylogger)竊取機密資訊，再透過電子郵件的方式傳回駭客的電腦裡，駭客登入網路銀行後，透過「非約定轉帳」方式盜領存款。

至於駭客是如何植入後門及木馬程式，林育民分析，駭客利用病毒(Beagle、MyDoom、Bugbear、系統漏洞)、電子郵件，或透過色情、軟體破解或其他惡意網站，偽裝成可吸引使用者執行或下載的應用程式，或利用社交工程如MSN、Yahoo、Messenger、ICQ等途徑，植入或散布木馬程式。

網路銀行用戶要防杜被盜領，必須確認個人電腦的網路安全防護，除可偵測掃描木馬程式、鍵盤側錄程式的防毒功能外，進階型的個人防火牆，入侵偵測機制則是整合防護的標準配備，缺一不可。

對習慣性使用網路銀行的消費者而言，務必要養成良好的使用習慣，不任意開啟不明的電子郵件或附件，不隨意安裝或執行來路不明的軟體，不任意瀏覽色情或可能有惡意的網站，並關閉移除不必要的服務與程式，唯有確實在電腦安全防護和個人使用習慣上強化安全性，才能一面享受網路銀行的便利，一面照顧好自己的財物安全。930404

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IPS can Protect everything ---
Post-Sasser .

IPS Vendors Speak up ---- Post-Sasser

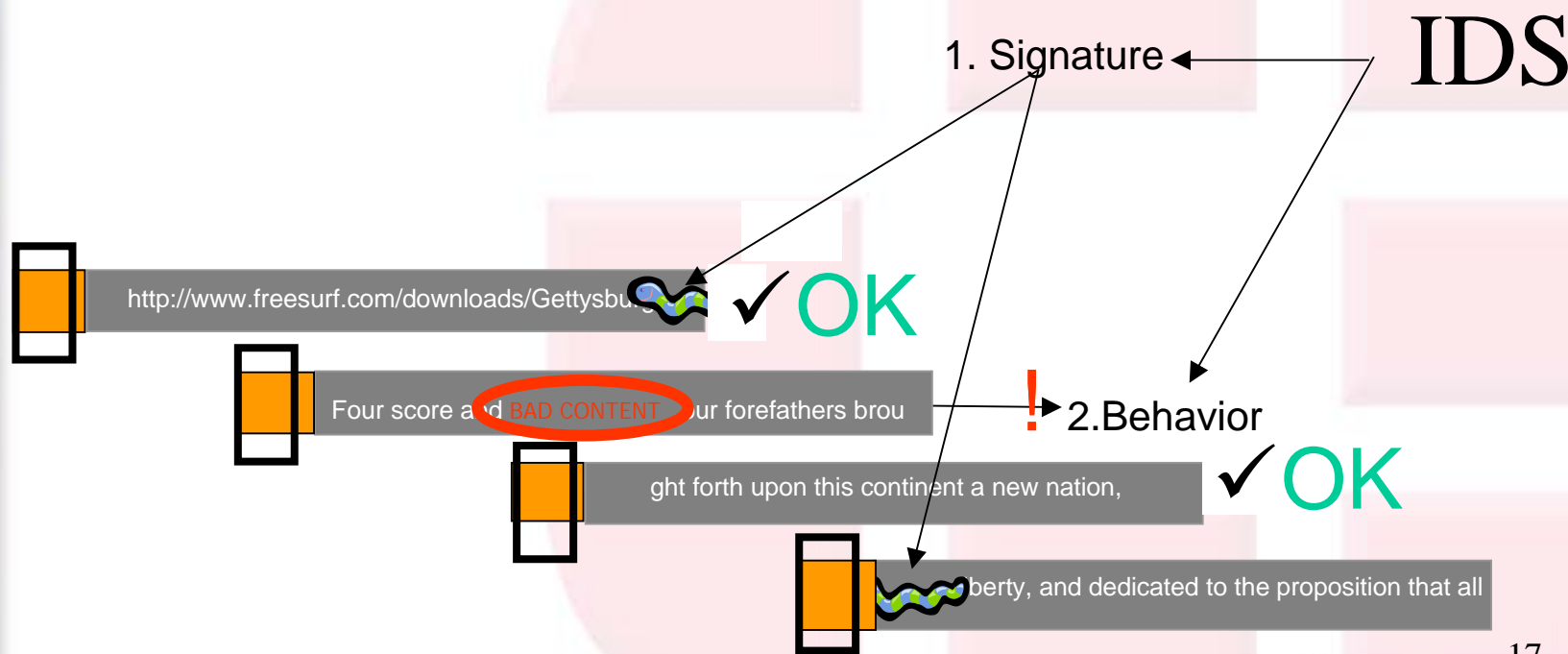
- **Block worm & exploit viruses is trend**
 - Antivirus is not important
 - Even NetSky can be blocked by IPS
- **IPS is enough**
 - Can block exploit worm, Trojans and Backdoor
- IF true, why T Symantec ...
focus on **pro** ?
http,FTP,En



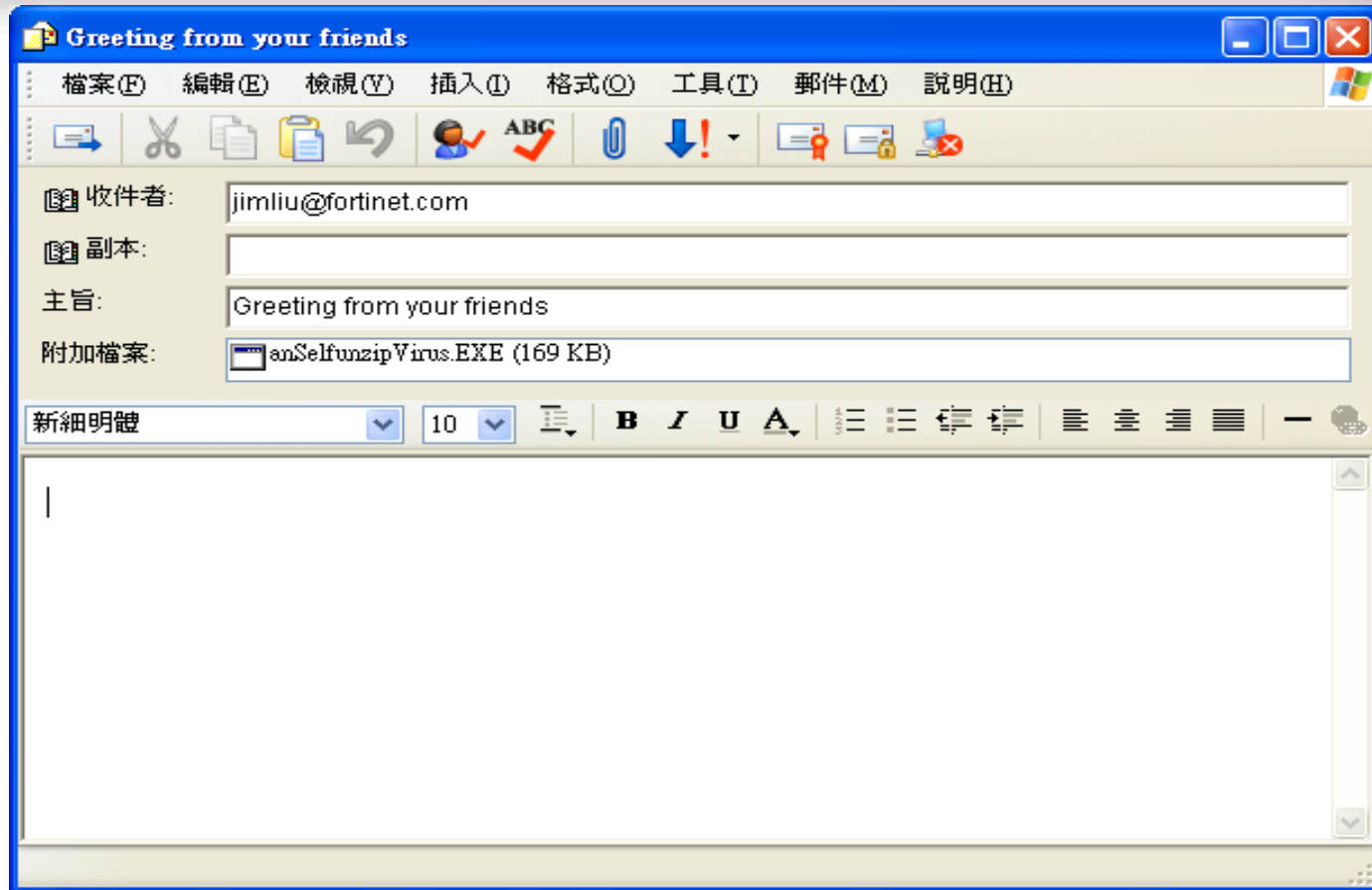
What is IDS ?

What does IDS work ?

Performs specific packets inspection and behavior analysis

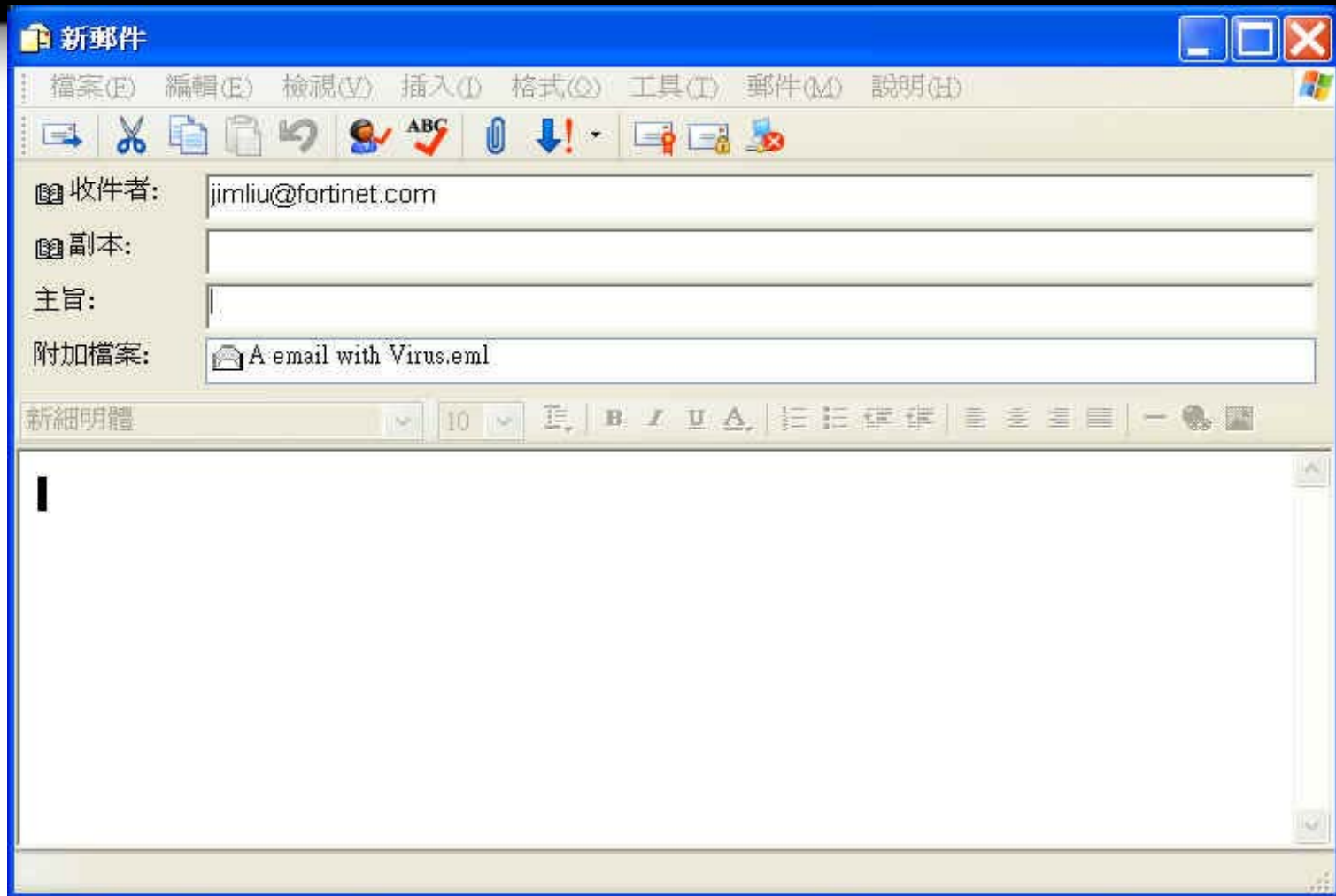


The Fact is (1/ 2)



Only one level compression

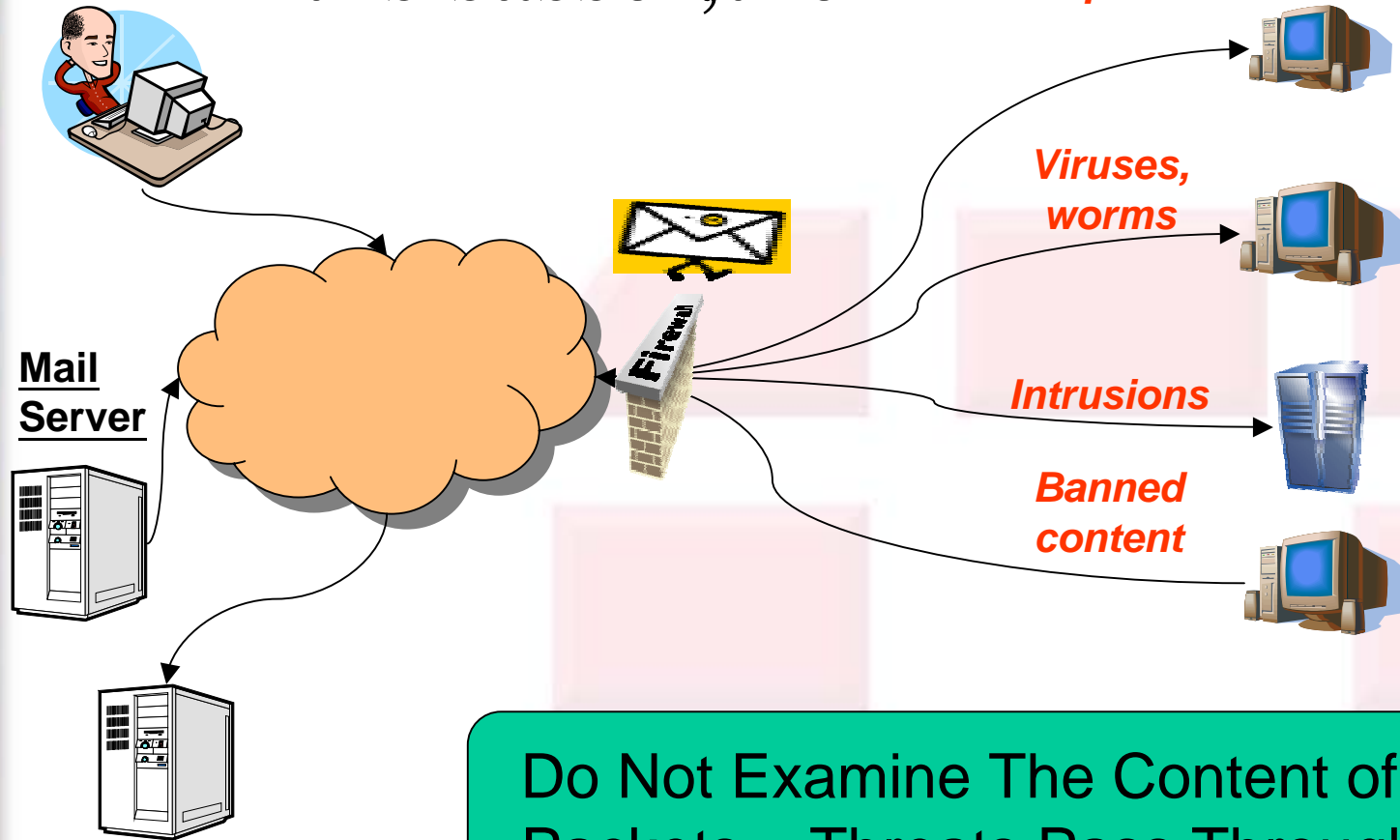
The Fact is (2/ 2)



Or attached a email with Viruses

Conventional/Single Point Security Solution Do Not Solve these Problems

Hacker If it is sasser, then



www.find_a_new_job.com
www.free_music.com
www.pornography.com

Do Not Examine The Content of Data
Packets – Threats Pass Through

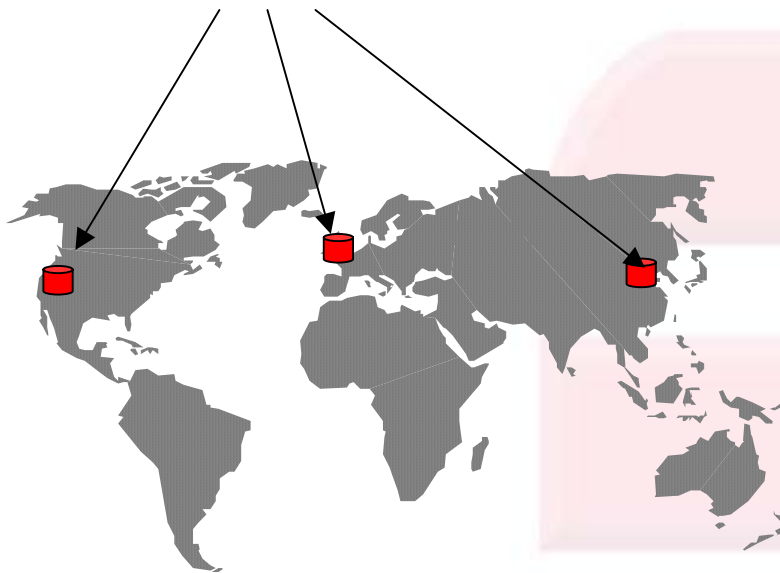
Protocol-based Antivirus Benefits

- According to protocol
 - to adapt different kinds of file format or Characteristic of different application.
i.e. like compression file type , ZIP, RAR....
outlook, outlook express or Unix Mailbox

World-Wide based Real time Update Center Ensure Rapid Response to New Threats

Fortinet Threat Response Team and Update Distribution Servers

FortiProtection Center Web Portal & email Bulletins



Automatic Updates Can Reach All FortiGate Units Worldwide in Under 5 Minutes



Dynamic Real time Attack Response Combines the Best of AV, NIDS and IDP

- Multiple detection mechanisms
 - AV signatures (application layer, content scan)
 - Intrusion signatures (protocol layer, content & behavior)
- Reduction in false positives and the amount of data analysis
 - Policy-based IPS applies scanning only where needed
- Multiple prevention mechanisms
 - Packet drop
 - Port closure
 - TCP reset
 - Traffic limit (e.g. P2P apps)
 - File delete/quarantine

All dynamically updatable via the FortiProtection Network

NIPS Signatures

FORTIGATE. 500 SUPPORT SETUP WIZARD LOGOUT

WEB CONFIG

Predefined **User-defined** ONLINE HELP ?

System
Route
Firewall
User
VPN
NIDS
 Signatures
 Anomaly
Anti-Virus
Web Filter
Spam Filter
Log&Report

Group Name	<input checked="" type="checkbox"/> Enable	#Total	#Enabled	Modify
apache	<input checked="" type="checkbox"/>	2	2	
backdoor	<input checked="" type="checkbox"/>	32	32	
coldfs	<input checked="" type="checkbox"/>	15	15	
ddos	<input checked="" type="checkbox"/>	30	30	
dns	<input checked="" type="checkbox"/>	10	10	
dos	<input checked="" type="checkbox"/>	8	8	
pop2	<input checked="" type="checkbox"/>	2	2	
pop3	<input checked="" type="checkbox"/>	5	5	

Edit Predefined NIDS Signature

Group Name: apache

Signature Name	Revision	<input checked="" type="checkbox"/> Enable	<input checked="" type="checkbox"/> Logging	Action	Details
Apache.DoS	10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pass	view
Chunked-Encoding.worm	10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pass	view

OK Cancel

FORTINET Up 0 Days 17 Hours **REAL TIME NETWORK PROTECTION**

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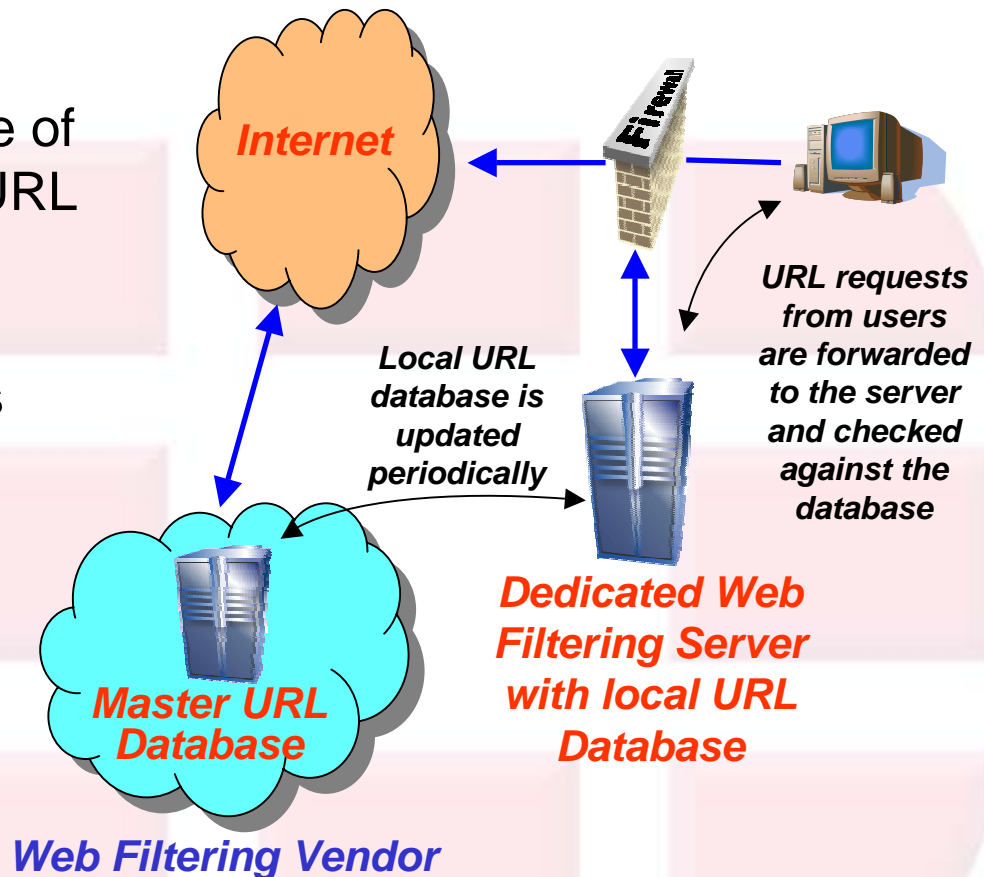
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A New Approach for Content filtering

Limitations of Conventional Software-Based Web Filtering Solutions

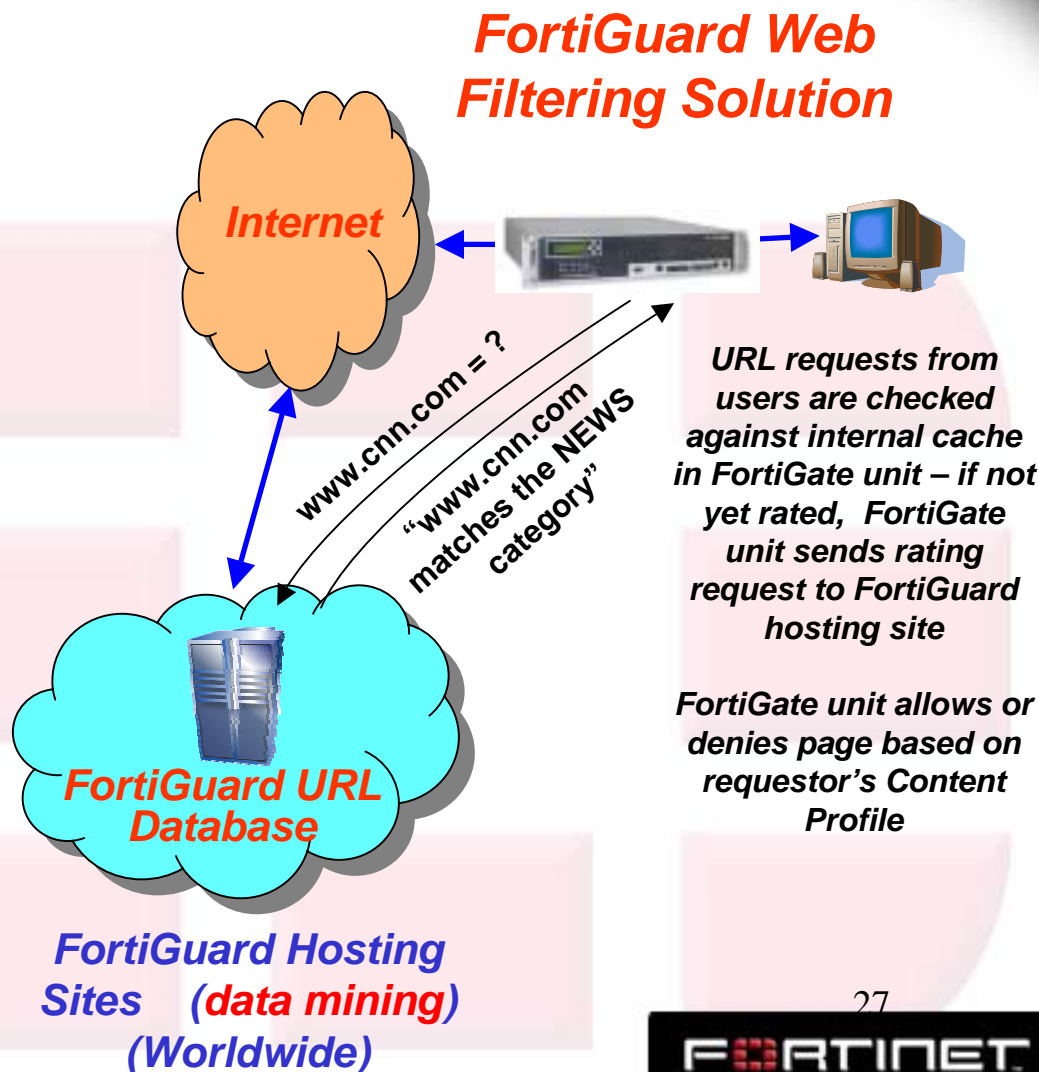
- Requires a dedicated server
- Requires periodic update of large (multi-megabyte) URL database
- Missed and incorrect ratings between updates
- High cost

Conventional Web Filtering Solutions



The Fortinet Solution: FortiGate Antivirus Firewalls + FortiGuard Service

- No additional hardware required
- No need to download large database to FortiGate units
- URL ratings are always up to date
- Local FortiGate caching of ratings greatly improves performance
- FortiGate solution also scans HTML content for keywords/phrases
- Lower cost
- Multi-language recognition
- **Reduction in false positives**
 - **Policy-based IPS applies** scanning only where needed



Web Profiles Support 80 Content Categories

Fortigate-60 - Web Config - Microsoft Internet Explorer

File Edit View Favorites Tools Help

FORTIGATE. 60

WEB CONFIG

Protection Profile

New Protection Profile

Profile Name: My Web Profile

Anti-Virus

Web Filtering

Web Category Filtering

☐ Enable category block (HTTP only)

☐ Block unrated websites (HTTP only)

☐ Allow websites when a rating error occurs (HTTP only)

Category	Action	Category	Action
Abortion	Allow	Pro-Choice	Allow
Pro-Life	Allow	Adult Content	Allow
Lingerie and Swimsuit	Allow	Nudity	Allow
Sex	Allow	Sex Education	Allow
Advocacy Groups	Allow	Business and Economy	Allow
Financial Data and Services	Allow	Abused Drugs	Allow
Marijuana	Allow	Prescribed Medications	Allow
Supplements and Unregulated Compounds	Allow	Cultural Institutions	Allow
Educational Institutions	Allow	Educational Materials	Allow
Reference Materials	Allow	Entertainment	Allow
MP3	Allow	Gambling	Allow
Games	Allow	Government	Allow
Military	Allow	Political Organizations	Allow
Health	Allow	Illegal or Questionable	Allow
Information Technology	Allow	Computer Security	Allow

Up 27 Days 7 Hours REAL TIME NETWORK PROTECTION

start 4 Microsoft... 2 Microsoft... 2 Microsoft... 3 Internet... Microsoft Word Adobe Read... 100% 7:51 PM

A Range of Logging and Reporting Options

- **Logging**
 - FortiGate unit logs the source IP, destination IP, requested URL, action (allowed/denied), and content category
- **Built-in reporting**
 - Graph in the FortiGate GUI shows web usage by category
- **Additional reporting**
 - Logs are compatible with 3rd party reporting tools, such as eIQnetworks Firewall Analyzer / SecureExp



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A BASIC Anti-SPAM skill

Email Content Filtering (Antispam) Enhancements

- Check & Mark Messages with Signs of SPAM:
 - Keywords & phrases in message body and subject line
 - Blacklist of known bad spam senders
 - Invalid return email address (DNS check)
 - Spoofing (MIME header check)
- Block SMTP Messages based on:
 - IP address Black/White list
 - IP-based checks against the Real-time Blackhole list (RBL) and the Open Relay Database (ORDB)
 - Reverse DNS lookups

Anti-Spam

郵件選項

郵件設定

重要性(P):

敏感度(Y):

安全性

☐ 加密郵件內容與附件(E)

☐ 外寄郵件加入數位簽名(S)

☐ 索取此郵件的安全性回條(T)

追蹤選項

☐ 索取此郵件的傳送回條(D)

☐ 索取此郵件的閱讀回條(R)

傳送選項

預設郵件回覆收件者(T):

☐ 截止於(X):

連絡人(C)...

類別(G)...

Internet 標題(H):
Received: from Mcinnis (CPE00045a890a8e-
CM00e06f23fc0a.cpe.net.cable.rogers.com [65.49.226.94])
by mail.fortinet.com (8.12.8/8.12.8) with SMTP id i2KJSLLo006427
for <apac_support@fortinet.com>; Sat, 20 Mar 2004 11:28:30 -0800
Message-Id: <200403201928.i2KJSLLo006427@mail.fortinet.com>
From: "Ready" <Tiller@msn.com>

關閉

Anti-Spam

```
C:\WINDOWS\System32\cmd.exe - nslookup
C:\Documents and Settings\Jim Liu>nslookup
Default Server:  dns.hinet.net
Address:  168.95.1.1

> set type=MX
> msn.com
Server:  dns.hinet.net
Address:  168.95.1.1

msn.com MX preference = 5, mail exchanger = mx1.hotmail.com
msn.com MX preference = 5, mail exchanger = mx2.hotmail.com
msn.com MX preference = 5, mail exchanger = mx3.hotmail.com
msn.com MX preference = 5, mail exchanger = mx4.hotmail.com
mx1.hotmail.com internet address = 65.54.166.99
mx1.hotmail.com internet address = 64.4.50.50
mx1.hotmail.com internet address = 65.54.252.99
mx1.hotmail.com internet address = 64.4.50.99
mx2.hotmail.com internet address = 65.54.190.50
mx2.hotmail.com internet address = 65.54.252.230
mx2.hotmail.com internet address = 65.54.190.7
mx2.hotmail.com internet address = 65.54.166.230
mx3.hotmail.com internet address = 64.4.50.179
mx3.hotmail.com internet address = 65.54.253.99
mx3.hotmail.com internet address = 65.54.167.5
新注 半 :
```

Anti-Spam

郵件選項

郵件設定

重要性(P):

敏感度(Y):

安全性

☐ 加密郵件內容與附件(E)

☐ 外寄郵件加入數位簽名(S)

☐ 索取此郵件的安全性回條(T)

追蹤選項

☐ 索取此郵件的傳送回條(D)

☐ 索取此郵件的閱讀回條(R)

傳送選項

預設郵件回覆收件者(T):

☐ 截止於(X):

連絡人(C)...

類別(G)...

Internet 標題(H):

by mail.fortinet.com (8.12.8/8.12.8) with SMTP id i2KJSLLo006427
for <apac_support@fortinet.com>; Sat, 20 Mar 2004 11:28:30 -0800
Message-Id: <200403201928.i2KJSLLo006427@mail.fortinet.com>
From: "Ready" <Tiller@msn.com>
Reply-To: "Ready" <Tiller@msn.com>
To: apac_support@fortinet.com
Subject: Re: Card Declined, app

關閉

RBL Server-List

- rbl.maps.vix.com
- dul.maps.vix.com
- relays.orbs.org
- bl.spamcop.net
- cbl.abuseat.org
- dnsbl.njabl.org
- dnsbl.sorbs.net

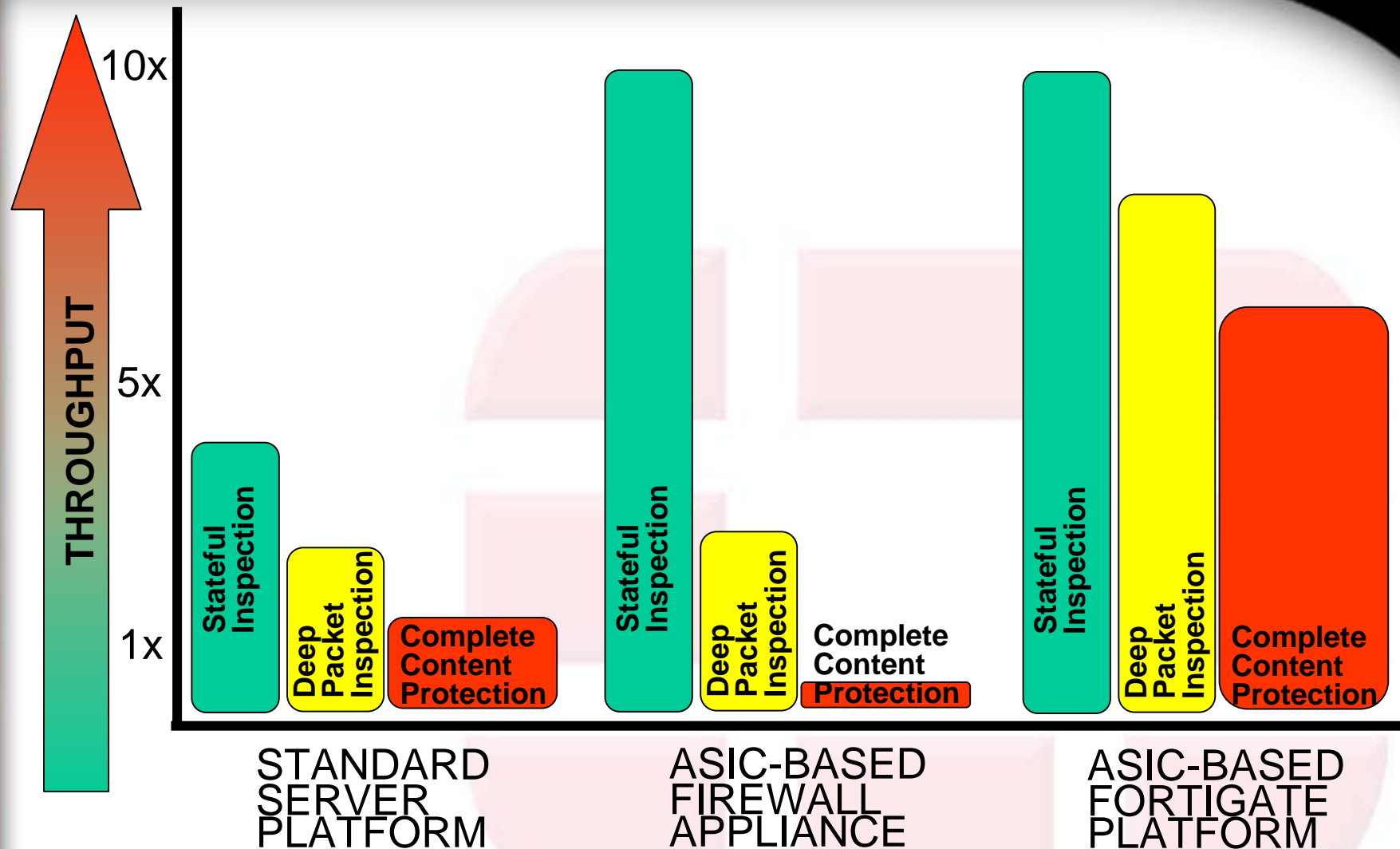
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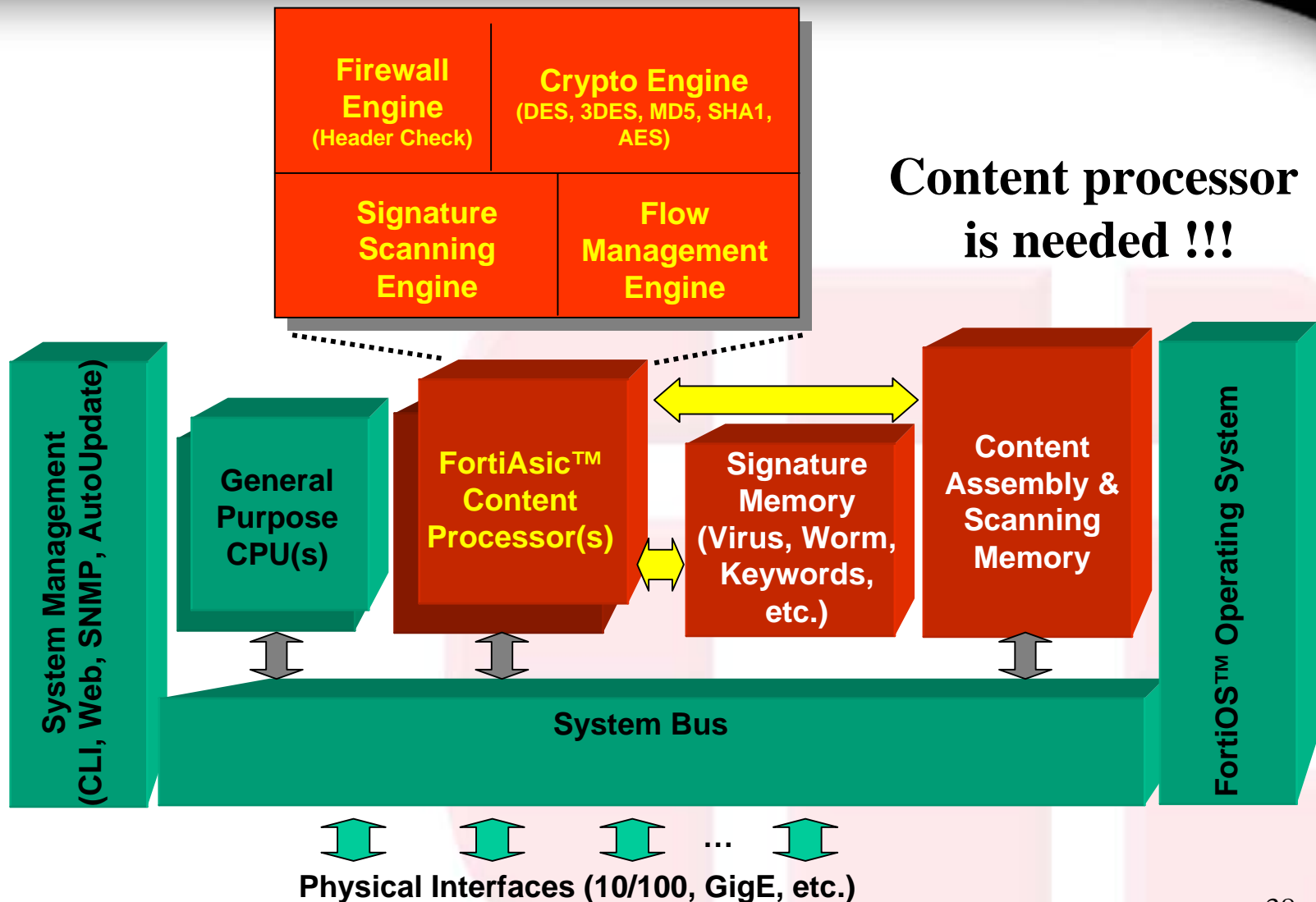
THE POWER IN NETWORK PROTECTION

Why everybody talk about
ASIC?

The ASIC-Based FortiGate Platforms Provide Better Protection and Higher Performance

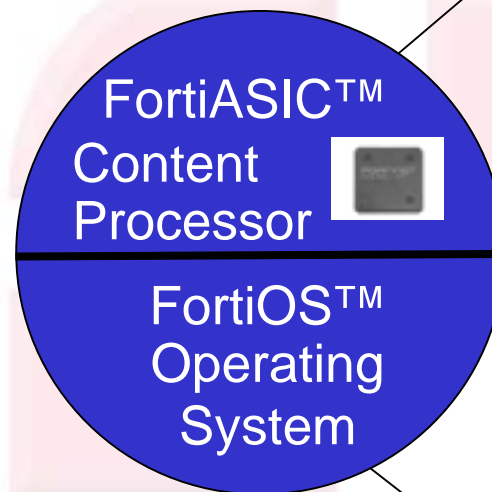


What's real hardware-based Security Box ?



Fortinet Developed a Unique Architecture for Complete, Real-Time Network Protection

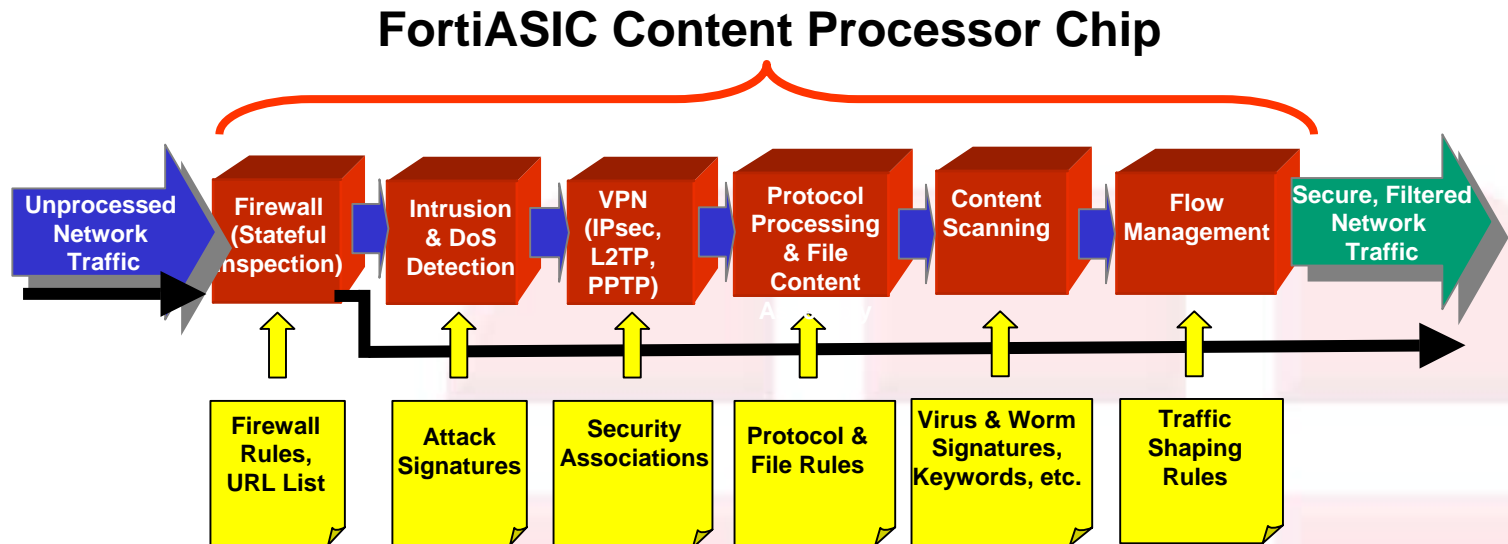
CORE TECHNOLOGY



- Proprietary Fortinet Chip
- Hardware scanning engine
- Hardware encryption
- Real-time content analysis

- Real-time networking OS
- High performance
- Robust, reliable

What is the weakest point for point solution? (Why policy based management is needed ?)



*Note: Blocks can be used in multiple combinations, e.g. firewall, AV, and other functions can be applied to decrypted VPN tunnels

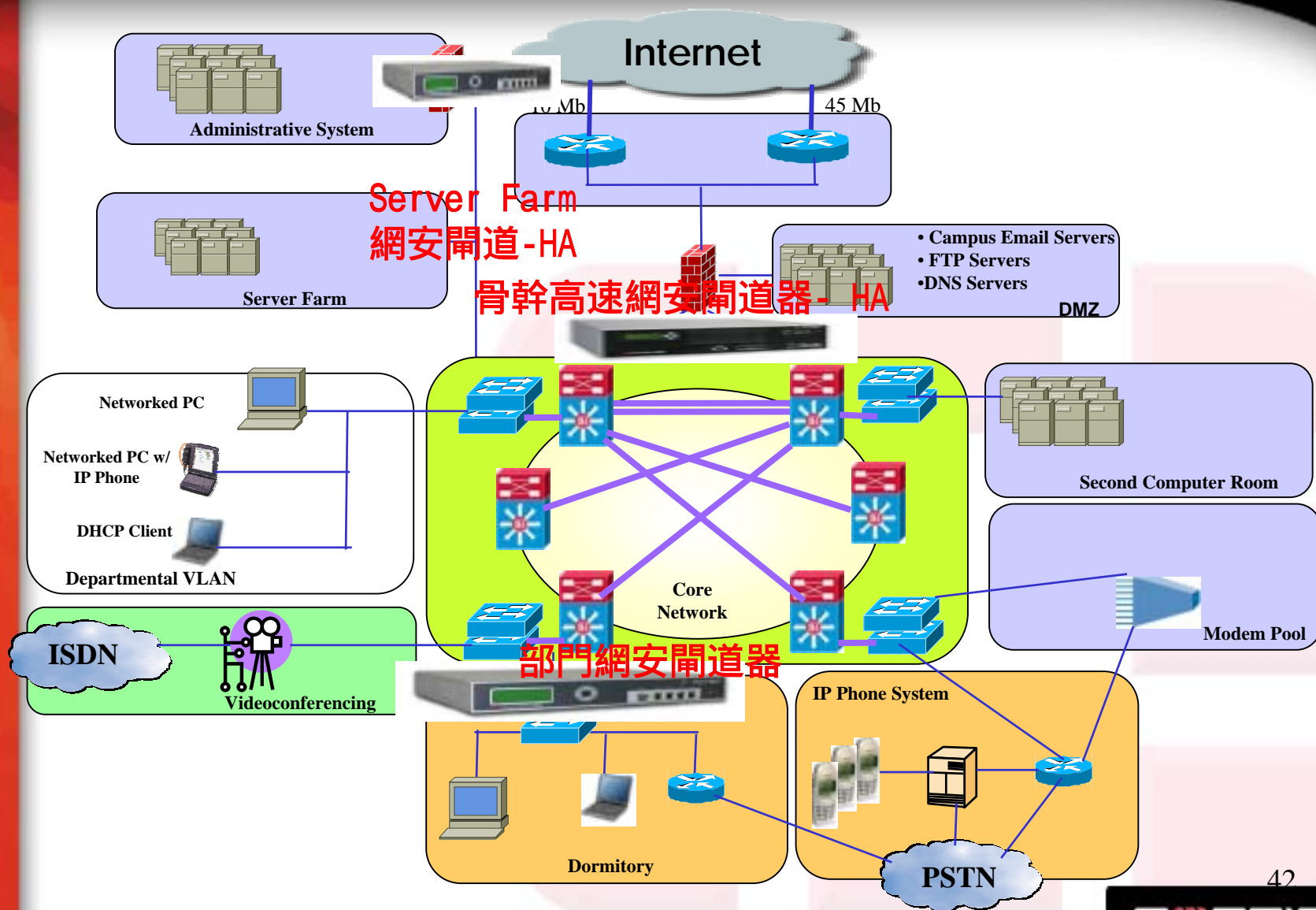


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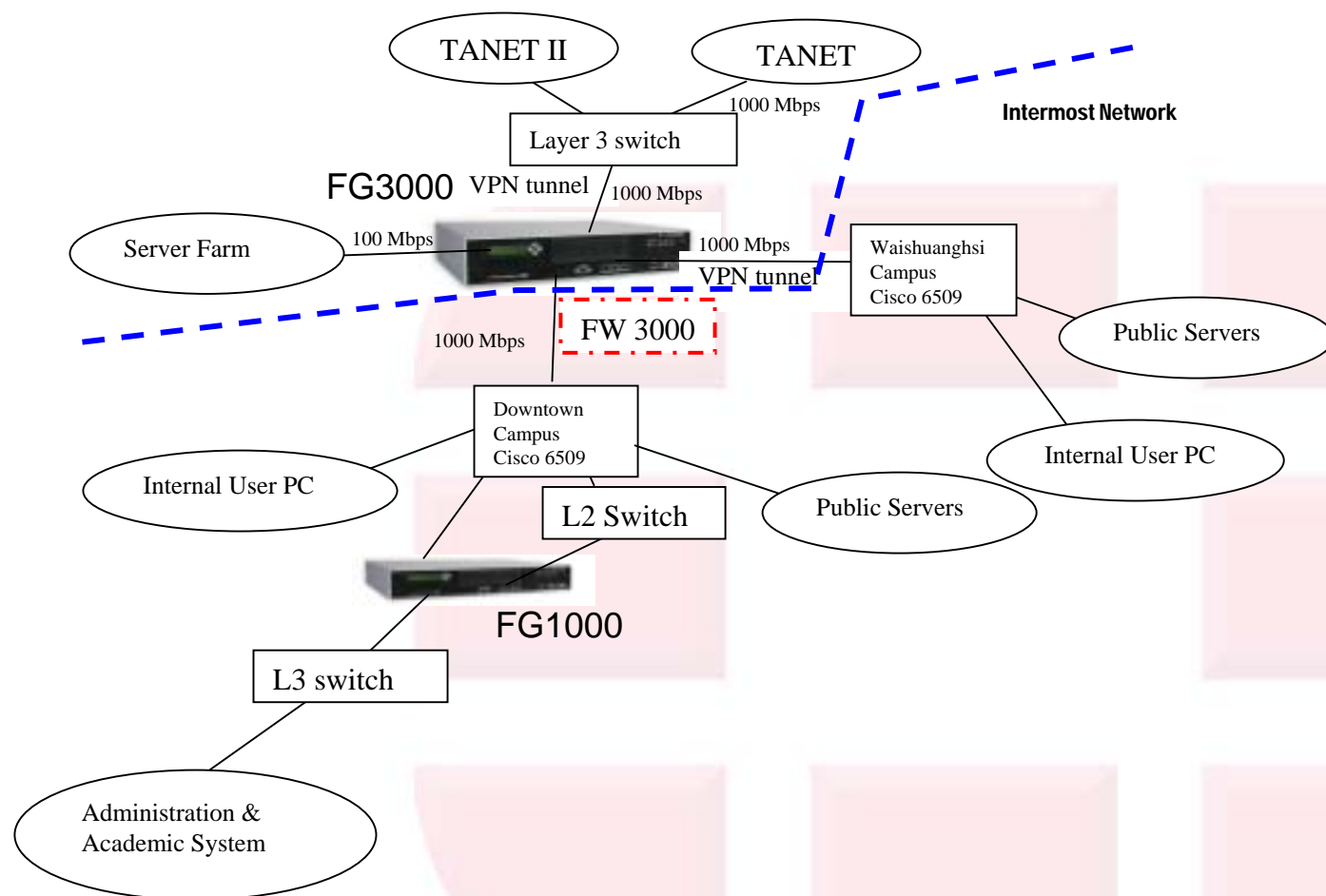
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安全網路架構

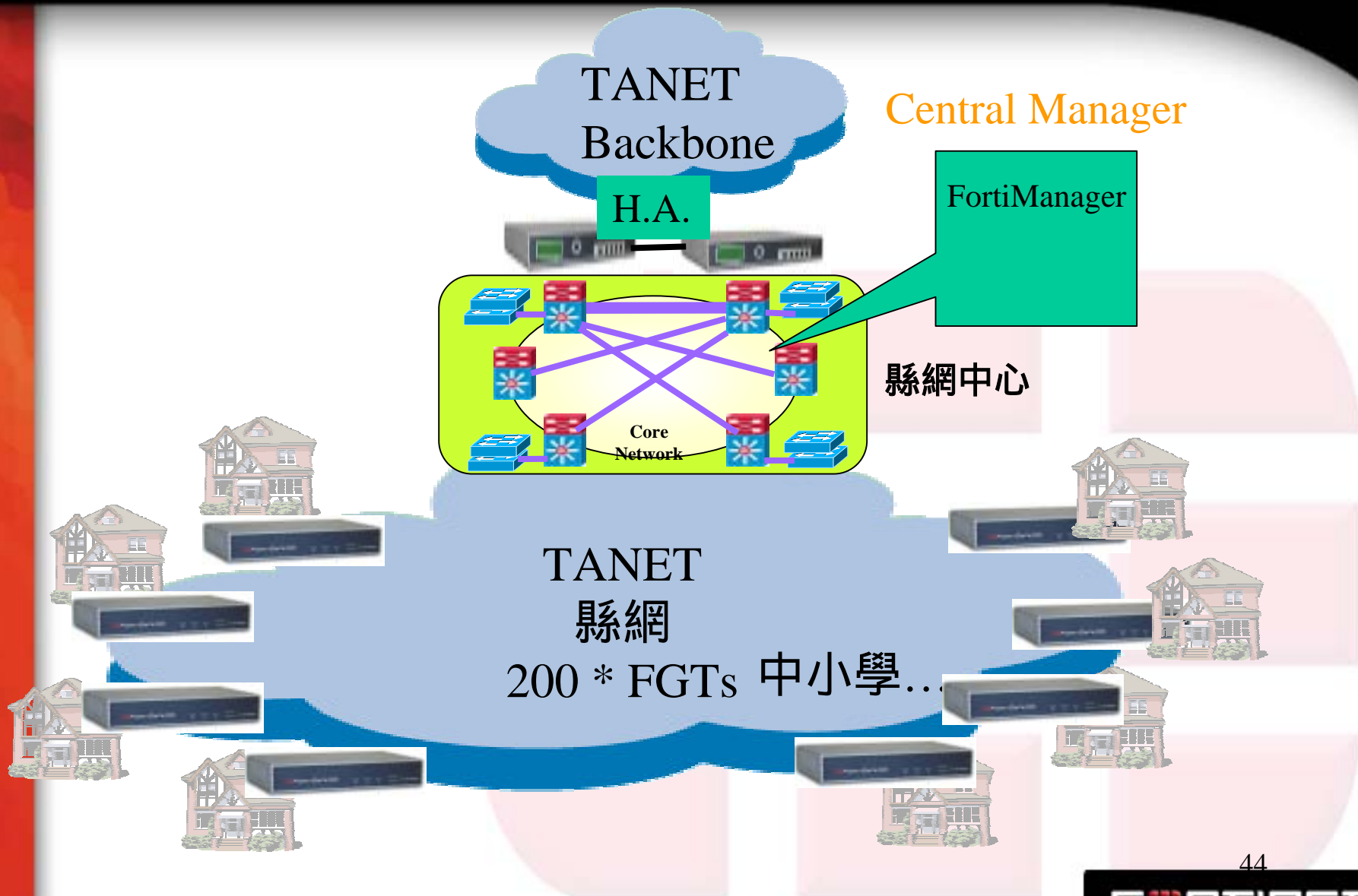
FORTINET 網路安全架構圖



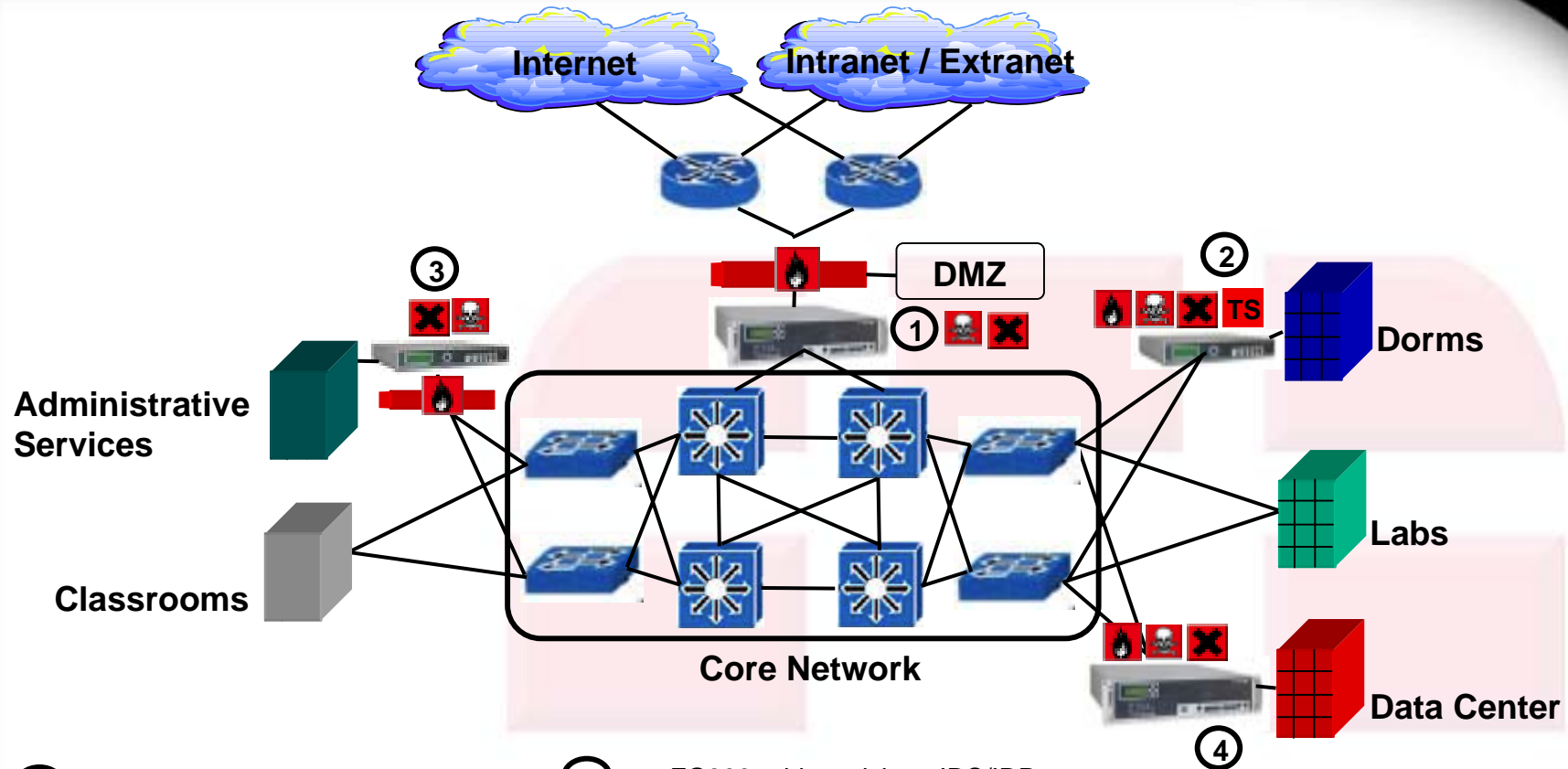
A Real Case for Education Network



Fortinet Provides a Complete Solution for the Educational Network (1/2)



Fortinet Provides a Complete Solution for the Educational Network (2/2)



① FG3600 adds antivirus and IDS/IDP protection at the gateway in transparent mode behind existing firewall

② FG300 provides antivirus, IDS/IDP and firewall protection, and traffic shaping functionality for dorms

③ FG300 adds antivirus, IDS/IDP protection to existing firewall for administrative services

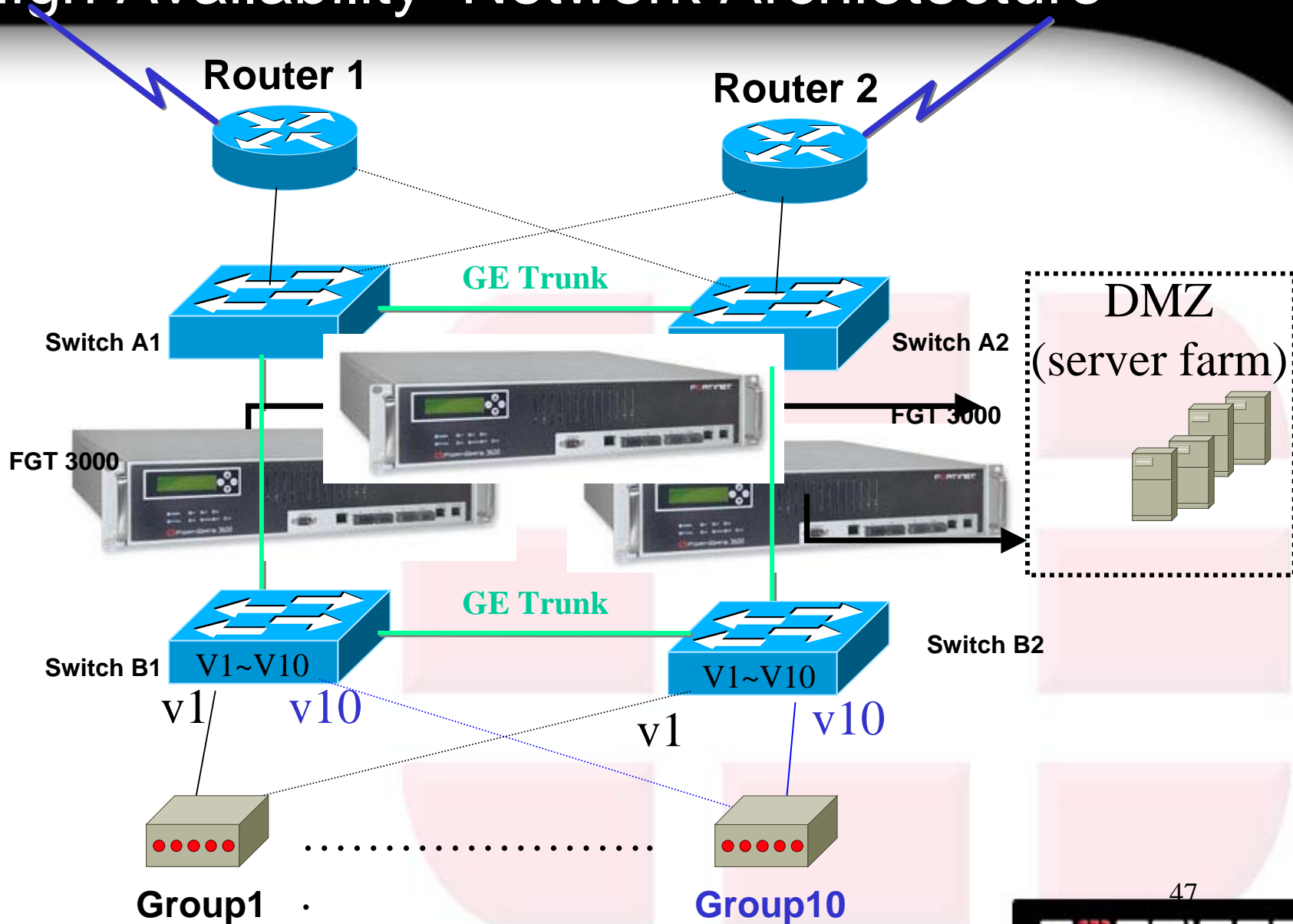
④ FG3600 provides in-line firewall, antivirus, IDS/IDP functionality to data center

High Availability Feature Highlights

- Fortigate Clustering Protocol (Real Clustering)
Active-Active (TP / Routing mode)
Active-Passive (TP / Routing mode)
- HA in transparent mode
- Stateful failover for both firewall and VPN traffic within 3 seconds
- Link status monitoring and failover
- HA Alert
 - During failover, the FortiGate units in an HA group send an email and SNMP trap, and log the event.

FORTINET-高可靠網路安全建議架構圖

High Availability Network Architecture





FORTINET™

THE POWER IN NETWORK PROTECTION

Enough ?
Fortinet always think more
for you



FORTINET™

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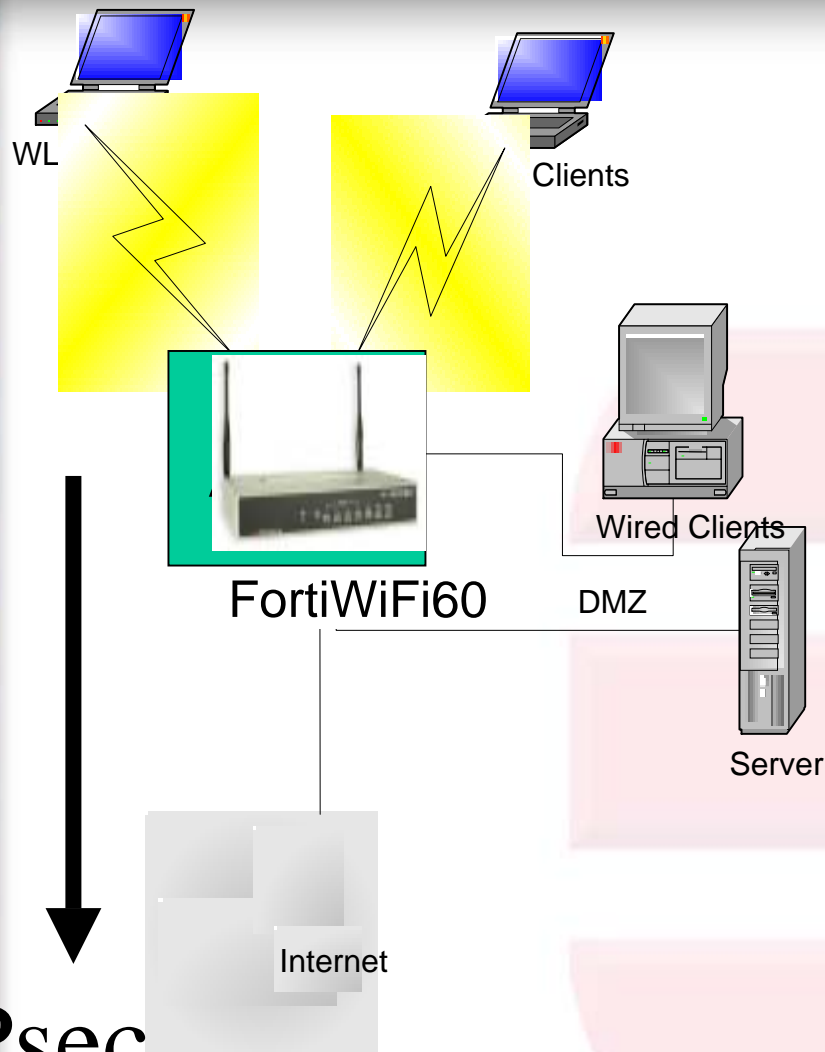
無線網路安全面面觀

What is users' requirement we care ?

- **Only wireless Access Point with Complete Content Protection**



Integrated SMB Wireless Solution



Security

- Gateway and AP not vulnerable
- AV scanning for all users at all times
- WLAN clients protected from each other
- Can enforce Security Policy at all points
- EVEN provide IPsec Tunnel directly to internet

The Fortinet logo is displayed in a white, stylized, blocky font within a black rectangular box with rounded corners. The letter 'O' is replaced by a red and black grid pattern. A small 'TM' trademark symbol is located at the end of the word.

FORTINET™

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Valuable Reporter is necessary

Without FirewallAnalyzer

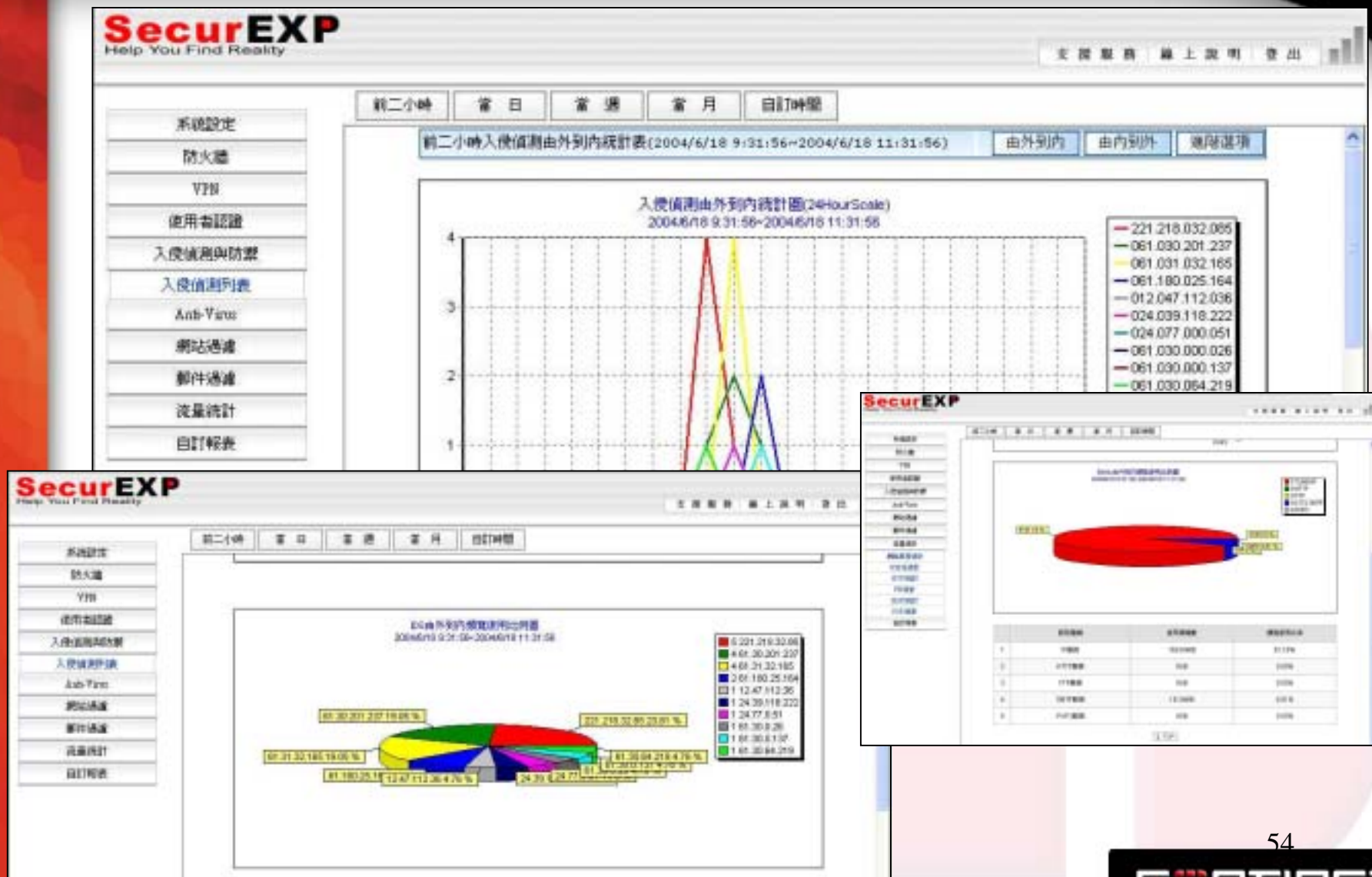
Good news is that Firewalls stream all activity in Syslog Messages. Syslog Servers capture this info into log files.

But finding valuable information in Firewall log files which contain huge amounts of cryptic information is not easy.



```
datetime=21Jul2003 03:26:31 action=ctl fw_name=corp_fw dir=inbound sys_msgs=The E100B0 interface is not protected by the anti-
datetime=21Jul2003 03:26:31 action=ctl fw_name=corp_fw dir=inbound sys_msgs=The E100B7 interface is not protected by the anti-
datetime=21Jul2003 03:26:31 action=ctl fw_name=corp_fw dir=inbound sys_msgs=The E100B1 interface is not protected by the anti-
datetime=21Jul2003 03:26:31 action=ctl fw_name=corp_fw dir=inbound sys_msgs=The NDISWANIP interface is not protected by the anti-
datetime=21Jul2003 03:26:31 action=ctl fw_name=corp_fw dir=inbound
datetime=21Jul2003 03:26:32 action=accept fw_name=corp_fw dir=inbound src=10.78.108.1 dst=10.73.103.1 rule=3 proto=tcp/Fw1_lea
datetime=21Jul2003 03:26:32 action=accept fw_name=corp_fw dir=inbound src=10.78.108.1 dst=10.73.103.1 rule=3 proto=tcp/Fw1_lea
datetime=21Jul2003 03:26:58 action=accept fw_name=corp_fw dir=inbound src=10.79.109.134 dst=10.79.109.755 rule=2 proto=udp/nbr
datetime=21Jul2003 03:27:35 action=accept fw_name=corp_fw dir=inbound src=10.74.104.1 dst=10.74.104.755 rule=2 proto=udp/nbrdat
datetime=21Jul2003 03:27:50 action=ctl fw_name=corp_fw dir=inbound sys_msgs=The E100B0 interface is not protected by the anti-
datetime=21Jul2003 03:27:50 action=ctl fw_name=corp_fw dir=inbound sys_msgs=The E100B7 interface is not protected by the anti-
datetime=21Jul2003 03:27:50 action=ctl fw_name=corp_fw dir=inbound sys_msgs=The E100B1 interface is not protected by the anti-
datetime=21Jul2003 03:27:50 action=ctl fw_name=corp_fw dir=inbound sys_msgs=The NDISWANIP interface is not protected by the anti-
datetime=21Jul2003 03:27:50 action=ctl fw_name=corp_fw dir=inbound
datetime=21Jul2003 03:27:50 action=accept fw_name=corp_fw dir=inbound src=10.78.108.1 dst=10.73.103.1 rule=3 proto=tcp/Fw1_lea
datetime=21Jul2003 03:27:50 action=accept fw_name=corp_fw dir=inbound src=10.78.108.1 dst=10.73.103.1 rule=3 proto=tcp/Fw1_lea
datetime=21Jul2003 03:28:02 action=accept fw_name=corp_fw dir=inbound src=10.75.105.1 dst=10.75.105.755 rule=2 proto=udp/nbrdat
datetime=21Jul2003 03:28:02 action=accept fw_name=corp_fw dir=inbound src=10.79.109.134 dst=10.79.109.755 rule=2 proto=udp/nbr
datetime=21Jul2003 03:28:21 action=accept fw_name=corp_fw dir=inbound src=10.76.106.1 dst=10.76.106.755 rule=3 proto=udp/nbrdat
datetime=21Jul2003 03:28:21 action=accept fw_name=corp_fw dir=inbound src=10.75.105.1 dst=10.75.105.755 rule=3 proto=udp/nbrnan
datetime=21Jul2003 03:28:23 action=accept fw_name=corp_fw dir=inbound src=10.74.104.1 dst=10.74.104.755 rule=3 proto=udp/nbrnan
datetime=21Jul2003 03:28:23 action=accept fw_name=corp_fw dir=outbound src=10.1.3.1 dst=10.79.109.134 rule=2 proto=tcp/135
datetime=21Jul2003 03:28:36 action=accept fw_name=corp_fw dir=inbound src=10.1.3.103 dst=10.79.109.134 rule=2 proto=tcp/135
datetime=21Jul2003 03:28:36 action=accept fw_name=corp_fw dir=inbound src=10.1.3.103 dst=10.79.109.134 rule=2 proto=tcp/1543
datetime=21Jul2003 03:28:48 action=accept fw_name=corp_fw dir=inbound src=10.78.108.1 dst=10.78.108.755 rule=3 proto=udp/nbrnan
datetime=21Jul2003 03:29:03 action=accept fw_name=corp_fw dir=inbound src=10.74.104.1 dst=10.74.104.755 rule=3 proto=udp/nbrnan
datetime=21Jul2003 03:29:03 action=accept fw_name=corp_fw dir=inbound src=10.79.109.134 dst=10.79.109.755 rule=3 proto=udp/nbr
datetime=21Jul2003 03:29:36 action=accept fw_name=corp_fw dir=inbound src=10.71.101.1 dst=10.71.101.755 rule=3 proto=udp/nbrnan
```


FirewallAnalyzer – Instant Reporting



FirewallAnalyzer – Drill Down

違反政策事件 061,031,194,002 詳細資料
(2004/6/18 9:31:56~2004/6/18 11:31:56)

Firewall: TP-FG60

[illegible]