

# Huawei Symantec Security Products & Solutions

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**Huawei Symantec**

# Contents

- **Understanding Security**
- **HS Security Solutions**
- **HS Security Products**
- **Case Studies**



# Security Requires a Total View

- The capacity of a wooden bucket is dependent on the shortest piece of wood
- Information security requires a total view
- A total security solution is essential, all aspects of the network & system must be considered:
  - Network
    - PC & laptops
    - Web server/email server/DB server
  - Host/server
  - Users
    - Internal users
    - External users
  - Operations
  - Management
    - Policies/rules



# Security is a Relative Concept

- Security is a relative concept, not an absolute one. For security solutions and security investments, relative is acceptable. Large investments in security are not required.
- Security is dynamic; one time consideration or one time investment is not sufficient. We should keep a close watch on security.



- Is the spear sharp enough to pierce any shield?
- Is the shield strong enough to resist the piercing attempt of any spear?
- You make your shield sharper and sharper, and I make my shield stronger and stronger.



# Focus on Management

- Focus should be on management as well as technology
- Security = 30% Technology + 70% Management
- Management
  - Technical level
    - Management system/software
    - Correct configuration of your security appliances
    - Vulnerability scanning
  - Non technical level
    - Laws
    - Standards & criteria
    - Rules
    - Policies

# Contents of Information Security

- Is your office/work building safe?
- Is your apartment safe?
- Is the way from your home to your office safe?
- Is the city you live in safe?

- Wear face mask to prevent H1N1
- Wear sun glasses and sunscreen to protect your skin
- Wear more clothes to prevent cold

- Don't talk about private matters in public.
- Have you forgotten something?
- Apoplexy or accident

- Don't go out late at night
- Can't access cooperate network without AV software installed.
- Can't copy confidential data or data with intellectual property out of company.

## Network Security

- Border access control
- Intrusion prevention
- Remote access
- Anti-virus

## System Security

- Physical security
- OS security
- Database security
- Email server security
- Web server security

## Data Security

- Missing data
- Data leak
- Stolen information
- Damaged data

## Management Security

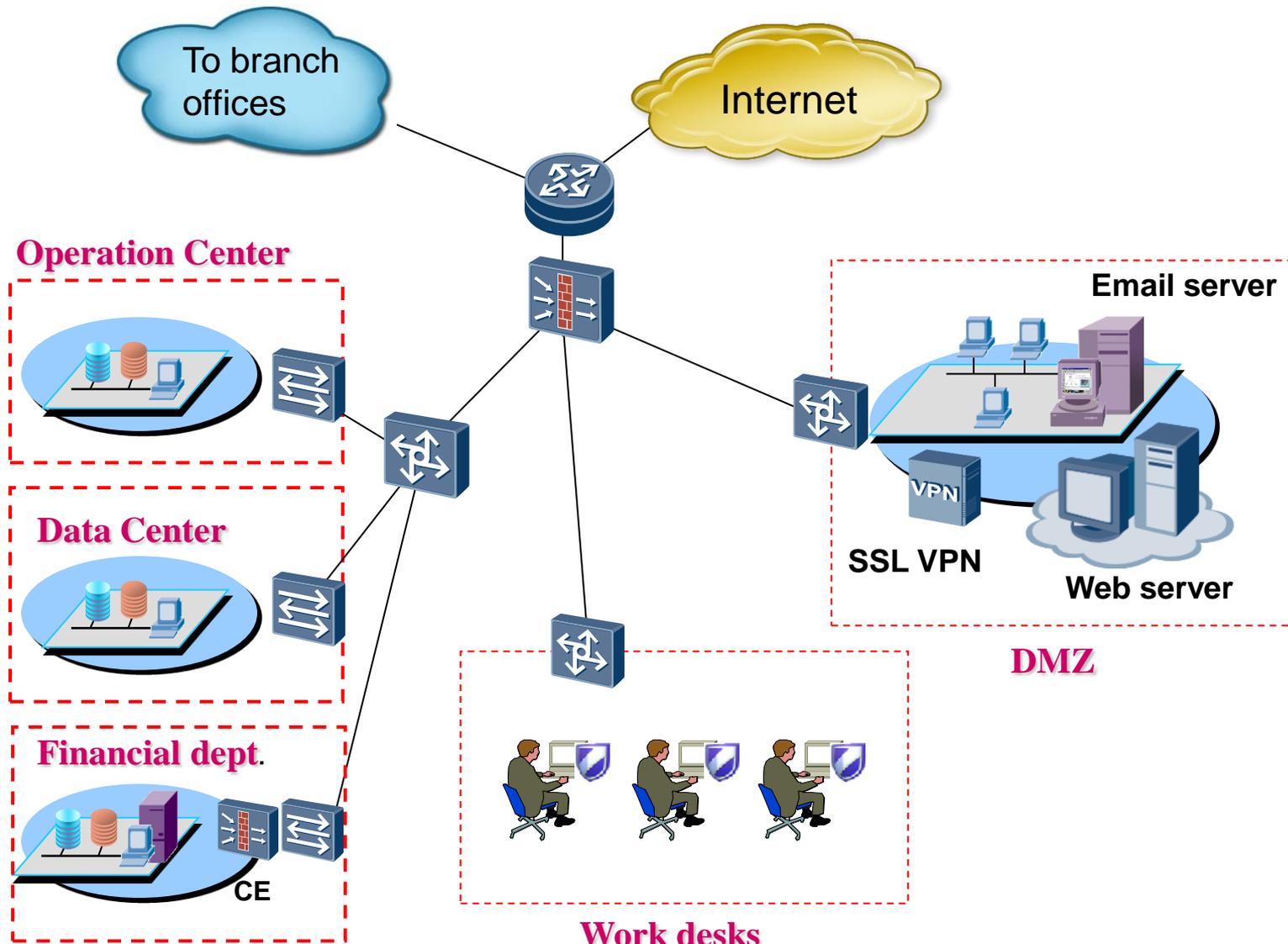
- Configuration
- Terminal management
- Traffic monitoring
- Log & audit
- Rules & policies

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# Typical Topology of an Enterprise



# Network Security Solutions

Solutions	Requirements	HS Products
<b>Border Access Control</b>	<ul style="list-style-type: none"> <li>- The egress of your network</li> <li>- Between HQs and branch offices</li> <li>- Among different domains</li> </ul>	<ul style="list-style-type: none"> <li>- USG 9000</li> <li>- USG 5000</li> <li>- USG 2000</li> </ul>
<b>Anti-DDoS</b>	<ul style="list-style-type: none"> <li>- The egress of your network</li> <li>- The egress of your data center</li> </ul>	<ul style="list-style-type: none"> <li>- USG 9000</li> </ul>
<b>VPN</b>	<ul style="list-style-type: none"> <li>- Between HQs and branch offices</li> <li>- Remote employees</li> </ul>	<ul style="list-style-type: none"> <li>- SVN 3000</li> <li>- All FWs</li> </ul>
<b>IPS</b>	<ul style="list-style-type: none"> <li>- Network border</li> <li>- Important domains in your network</li> </ul>	<ul style="list-style-type: none"> <li>- USG 5000(UTM)</li> </ul>
<b>Anti-virus</b>	<ul style="list-style-type: none"> <li>- Network level AV</li> <li>- Host level AV</li> </ul>	<ul style="list-style-type: none"> <li>- USG 5000(UTM)</li> </ul>

# Host Security & Data Security

- **Operating System Security**

- OS hardening

- **Database Security**

- Server hardening
- Data backup & DR

- **Web Security**

- Web server hardening
- URL filtering

- **Email Security**

- Anti-SPAM

- **Data Backup**

- Data replication
- Data migration
- Data archiving

- **Disaster Recovery**

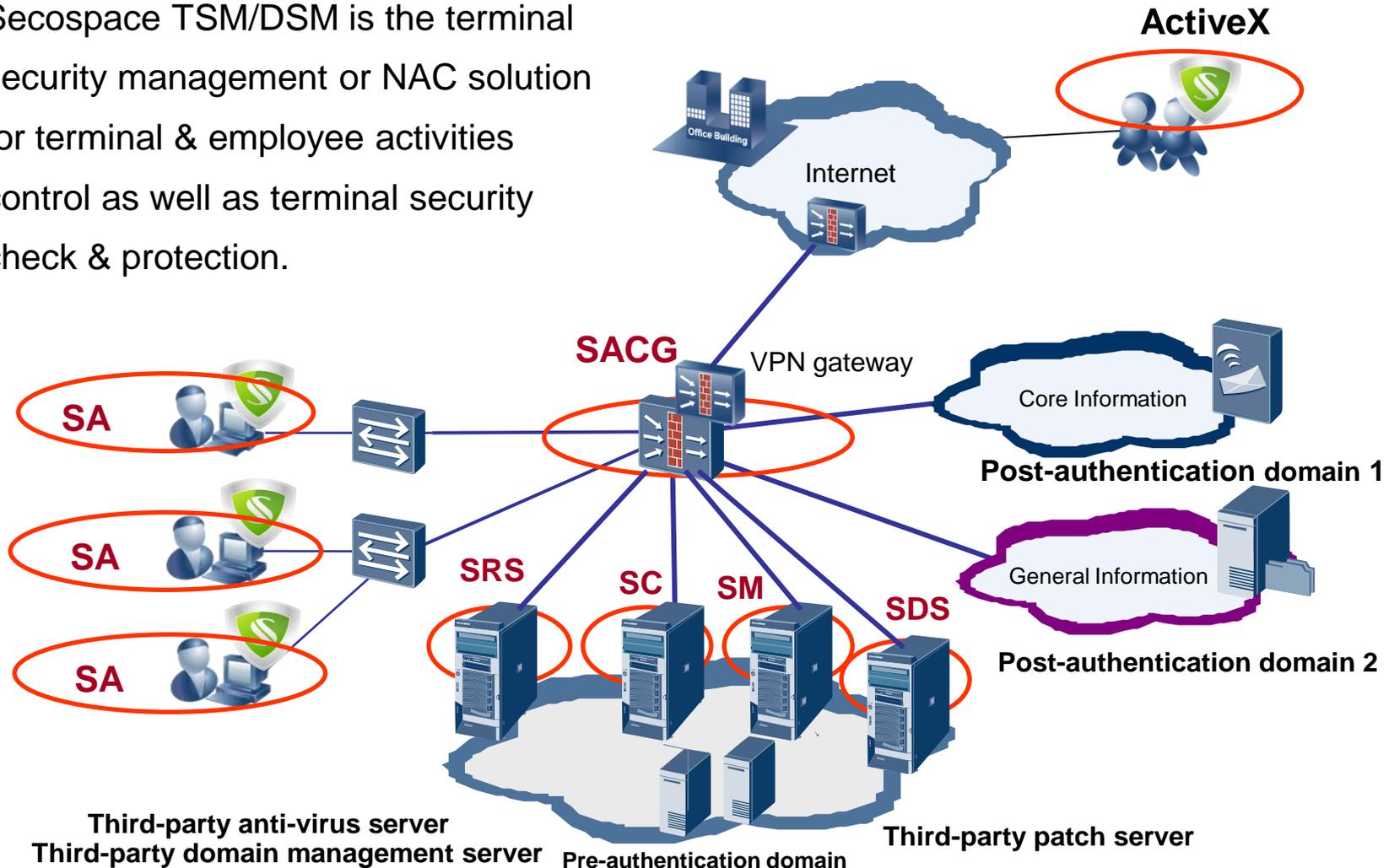
- Data level
- Application level

**For many parts of the host security and data security, there are more security services than security solutions.**



# Terminal Security Management

- Secospace TSM/DSM is the terminal security management or NAC solution for terminal & employee activities control as well as terminal security check & protection.



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# Highlights of HS Security Products

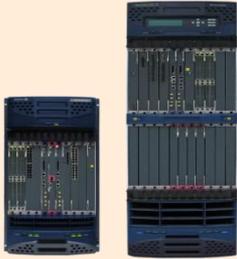
- Carrier grade HA
  - All products from HS have carrier grade high availability
  - All products are widely used in operators
- Abundant features
  - Anti-virus & IPS from Symantec
  - URL filtering
  - Various interface support
    - FE/GE/10GE
    - 2.5G/10G POS
    - E1/ADSL 2+/wifi/3G
  - Abundant protocols support
    - OSPF/RIP/BGP
    - IPsec/MPLS/L2TP
- High performance
  - All series products have high performance



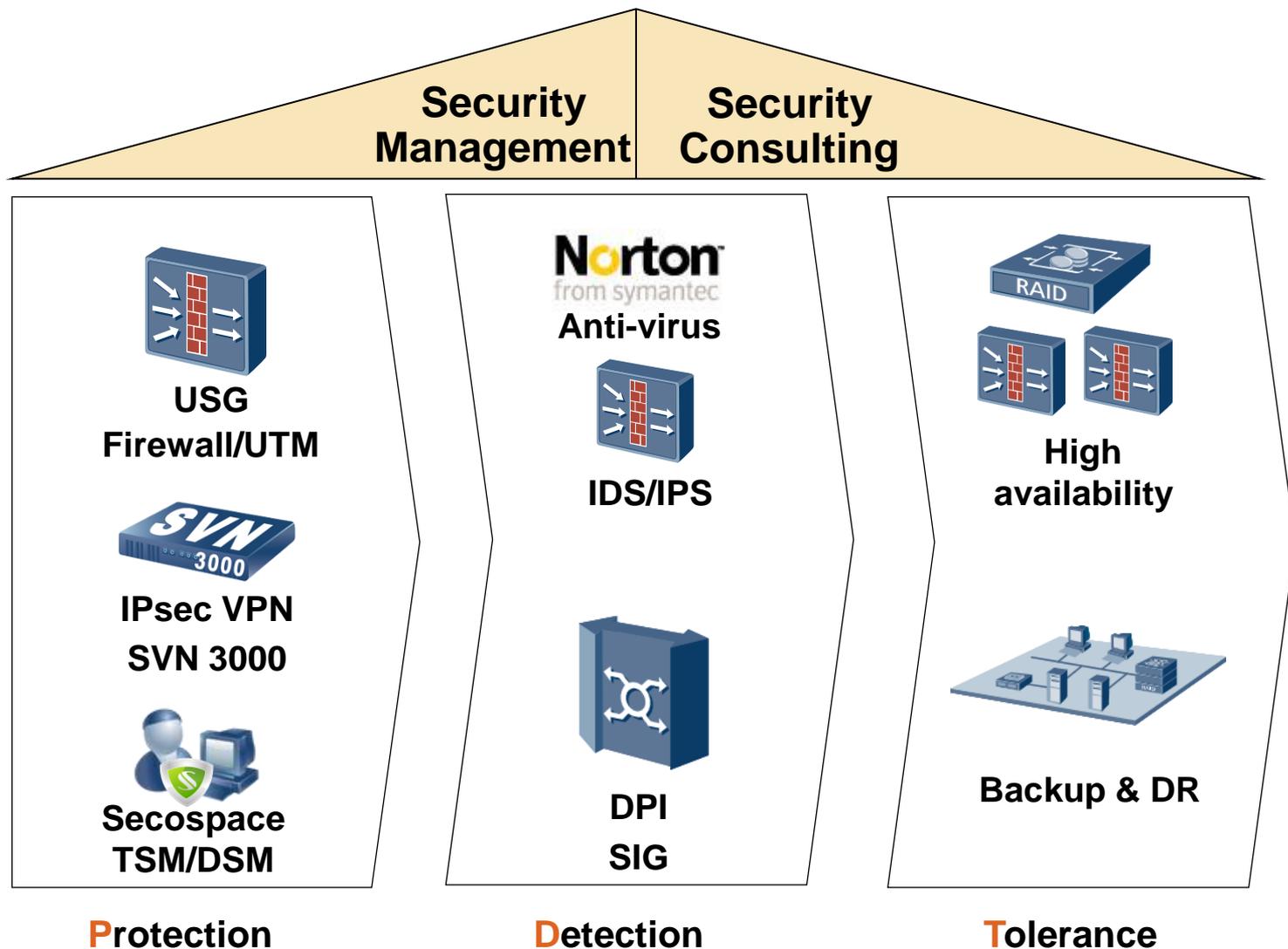
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# Security Products Portfolio

<p><b>Firewall</b>  <b>UTM</b>  <b>IPsec VPN</b>  <b>SSL VPN</b>  <b>Security Router</b></p>	 <p><b>SVN 3000</b></p>  <p><b>USG BSR/HSR</b></p>  <p><b>USG 2000</b></p>  <p><b>USG 5000</b></p>  <p><b>USG 9000</b></p>
<p><b>DPI</b></p>	 <p><b>SIG 1000E</b></p>  <p><b>SIG 9280E</b></p>  <p><b>SIG 9800</b></p>
<p><b>Terminal Security Management</b></p>	 <p><b>Secospace TSM/DSM</b></p>  <p>The diagram shows a flow of eight components: NAC, Policy management, VPN client, Compliance auditing, Anti-virus check, Reporting, Document encryption, and Software distribution.</p>
<p><b>Security Management</b></p>	 <p><b>Secospace eLog</b></p>  <p><b>Secospace VSM</b></p>

# 3 Levels of Security Safeguard



# USG 9300/9100

- Models

- USG 9310/9320
- USG 9110/9120

- Specifications

- Throughput: from 10Gbps to 120Gbps
- Concurrent sessions: from 4M to 48M
- New sessions per second: from 250,000 to 3M
- Virtual firewall: up to 1024
- IPsec VPN: 8Gbps – 96Gbps
- Anti-DDoS: support
- HA: carrier grade
- Interfaces: 10GE, GE, POS

- Application scenarios

- Large enterprises
- Universities
- Data center



USG9120



USG9110

# USG 5300/5100

- Models

- USG 5120/USG 5150
- USG 5310/5320/5330/5350/5360

- Specifications

- Throughput: from 1.5Gbps to 8Gbps
- Concurrent connections: up to 3M
- New sessions per second: up to 150,000
- Virtual firewall:  $\geq 100$
- IPsec VPN: up to 6Gbps
- Interfaces: GE, FE
- HA: carrier grade

- Application scenarios

- Medium size enterprises
- Big branch offices



**USG5360**



**USG5350**



**USG5330**



**USG5320**



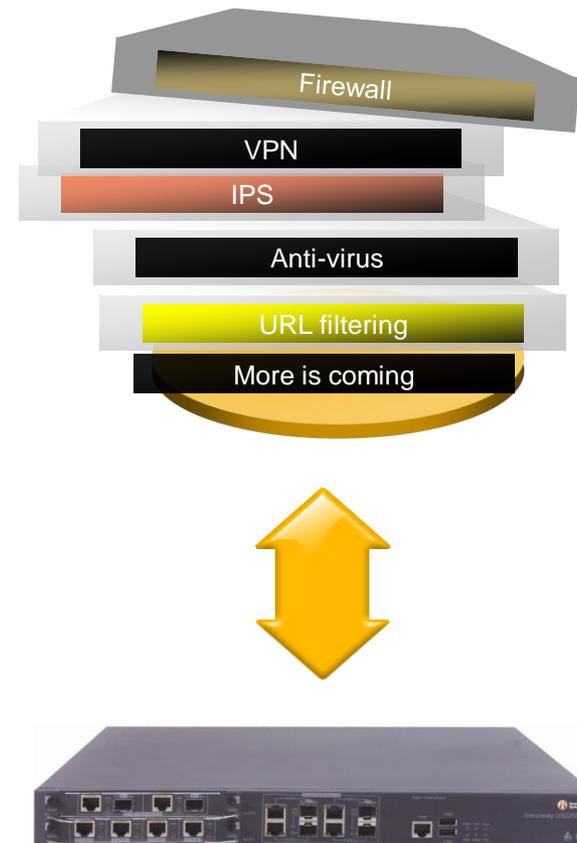
**USG5310**



**USG5120/5150**

# UTM Features of USG 5000

- Specifications
  - Firewall
  - VPN
  - IPS
    - Signatures: 2500+
  - Anti-virus
    - Signatures: 4M+
  - URL filtering
    - Items: 200,000+
- Application scenarios
  - Branch offices
  - Small offices



# USG 2200/2100

- Models

- USG 2130/2160
- USG 2210/2220//2230/2250

- Specifications

- Throughput: 140Mbps to 1Gbps
- Max Concurrent sessions: up to 1M
- New sessions per second: up to 20,000
- VPN: support
- Interfaces: FE,GE,ADSL, Wifi, **3G**

- Application scenarios

- Small offices
- Internet Café



**USG 2230/2250**



**USG 2210/2220**



**USG2130/2160**

# USG BSR/HSR- Security Router

- Models

- USG2120BSR, USG2130BSR, USG2130BSR-W,USG2160BSR, USG2160BSR-W, USG2205BSR,USG2220BSR, USG5120BSR, USG5150BSR
- USG2130HSR, USG2130HSR-W, USG2130HSR-P,USG2130HSR-WP,USG2160HSR/-W/-P/-WP, USG2205HSR/-P, USR2220HSR/-P, USG5120HSR, USG5150HSR

- Specifications

- BSR: Basic Security Router; HSR: High-level Security Router
- Routing features (RIP, OSPF, BGP, IS-IS)
- Voice features(H.248, SIP, T.38 fax, up to 32 pots users)
- PoE power support

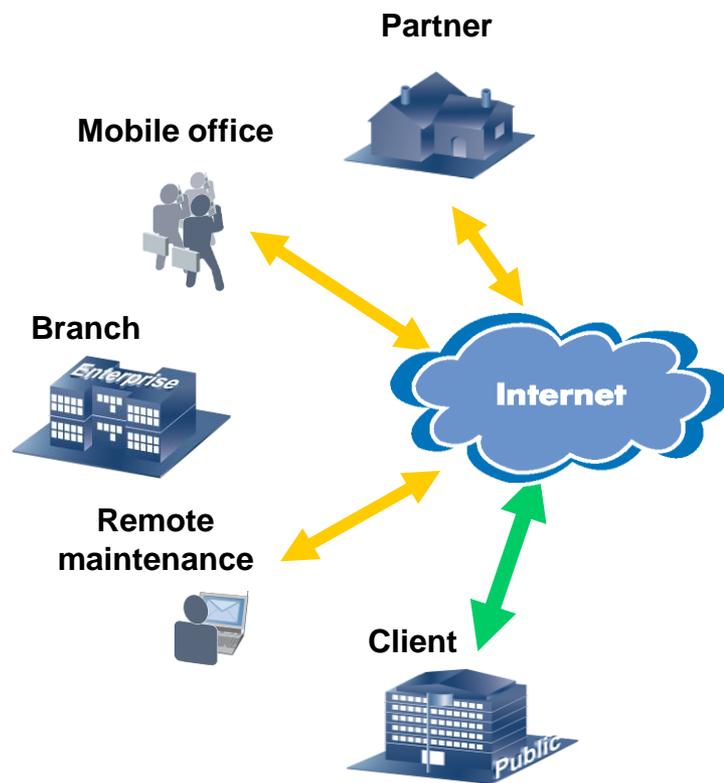
- Application Scenarios

- SME egress
- Branch offices



# SVN 3000

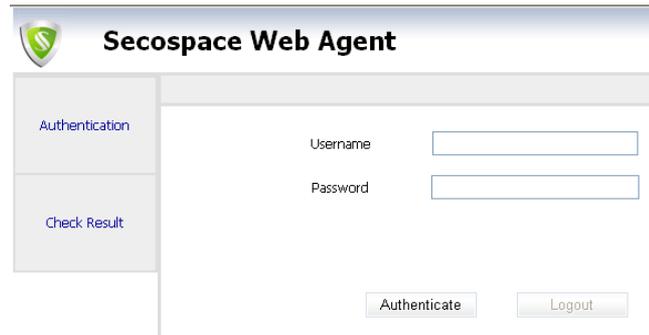
- Models
  - SVN 3000
- Specifications
  - IPsec VPN: support
  - SSL VPN: up to 2000 concurrent users
  - Virtual gateway: 128
- Features
  - Terminal security check
  - Terminal access information erasing
  - Certificate update automatically
- Application scenario
  - SME



SVN 3000

# Secospace TSM/DSM

- One Agent solution
  - Antivirus & patch check and remediation
  - Document rights management
  - Network access control
  - Program control
  - Employee behavior management
  - Asset management
  - Software distribution
  - Auditing & reporting
- Application scenarios
  - Large enterprises with strict employees & endpoint management requirements



# Products Summary (for enterprise)

	Border Access Control	All-in-one Security	All-in-one Box	IPsec VPN	SSL VPN	TSM/NAC
Large Enterprises	USG 9000			USG 9000	SVN 3000	Secospace TSM/DSM
Medium Enterprises	USG 5000	USG 5000	USG HSR	USG 5000		Secospace TSM/DSM
Small Enterprises	USG 2000	USG 2000		USG BSR		USG 2000

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# Main Operator Users



# Beijing Olympic Games Protection

- Challenges
  - Beijing CNC, the dedicated 29th Olympic Games telecommunication sponsor, was responsible for the protection of Olympic networks and for providing Internet and information services.
- Solutions
  - Huawei Symantec provided anti-DDoS and DPI Solutions as well as firewalls for Beijing CNC.
- Results
  - China held the Olympic game successfully. Huawei Symantec security solutions as well as engineers protected the network of the Beijing CNC and Beijing Olympic games.



# Enterprise Cases in China

- Government

- Beijing, Shanghai, Tianjin, Chongqing, Heilongjiang, Jilin, Liaoning, Hebei, Shanxi, Shaanxi, Xinjiang, Qinghai, Gansu, Ningxia, Neimenggu, Henan, Anhui, Jiangsu, Zhejiang, Shandong, Fujian, Hunan, Hubei, Jiangxi, Sichuan, Xizang, Guizhou, Yunnan, Guangxi, Guangdong, Hainan





# Thank You!



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