

Secure your network and service



Huawei Symantec

Contents

- Security Trend and Global Market
- Security Concept
 - Intelligent Security
 - Security Framework
 - Strength of Huawei Symantec's Security Products
- End-to-end Capability
 - International Security Standard
 - Layered Security
 - Security Solutions
- Successful Stories
- Value for Enterprise

IT Security Trends

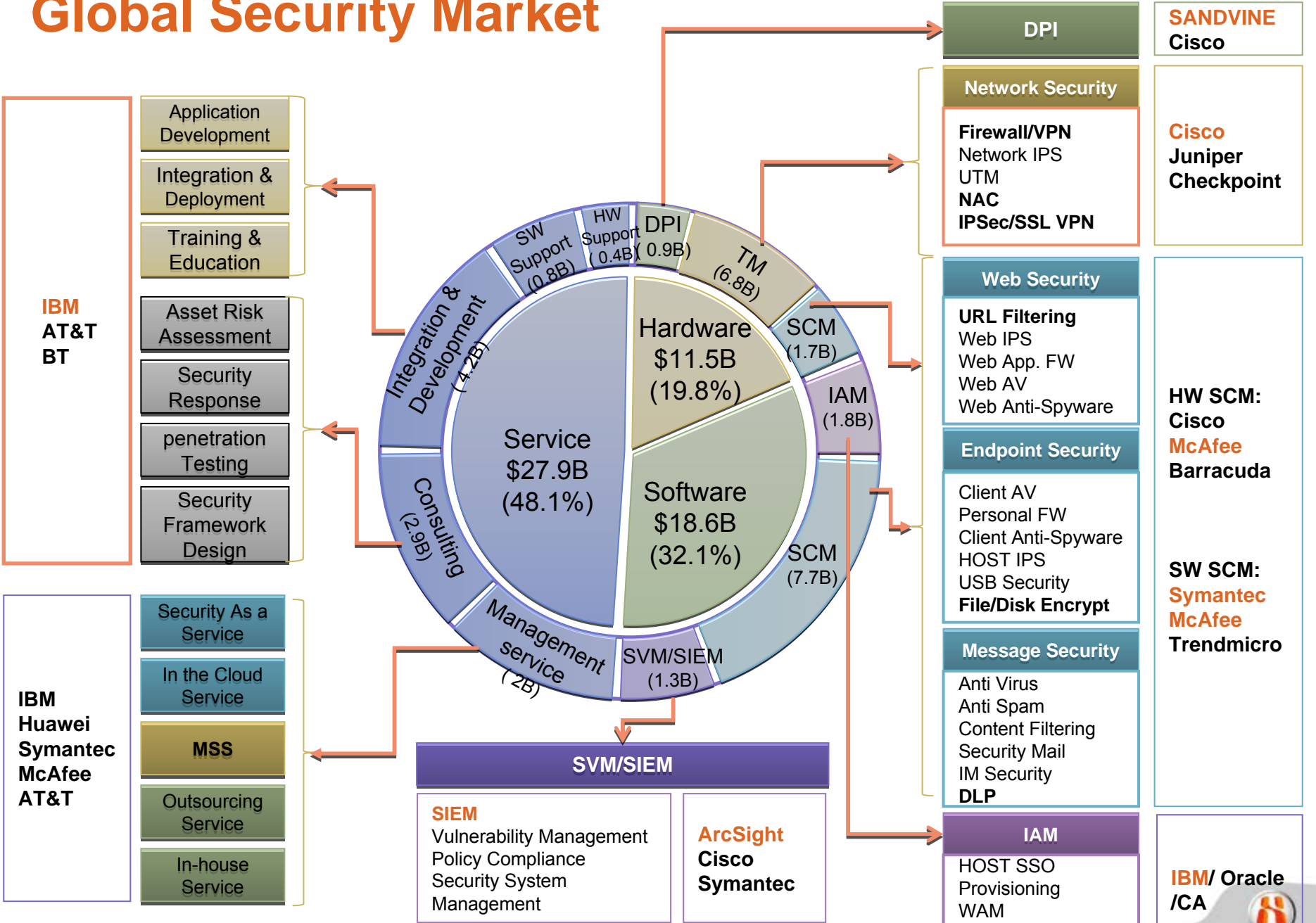
IT Trends

- 1 Virtualization** → Lower cost, higher efficiency
- 2 Cloud Computing** → Change the model of delivering IT computing resource
- 3 Web-Oriented Architectures** → Web-Oriented Application is mainstream
- 4 Social Software and Social Networking** → The new method of data exchange
- 5 Unified Communications** → The Merge of IT and CT
- 6 Business Intelligence** → The Combination of IT with Business

Security Trends

- Lower cost, higher efficiency
- Overall security requirement increase
- Security will tie up with fundamental applications
- Web security will be mainstream

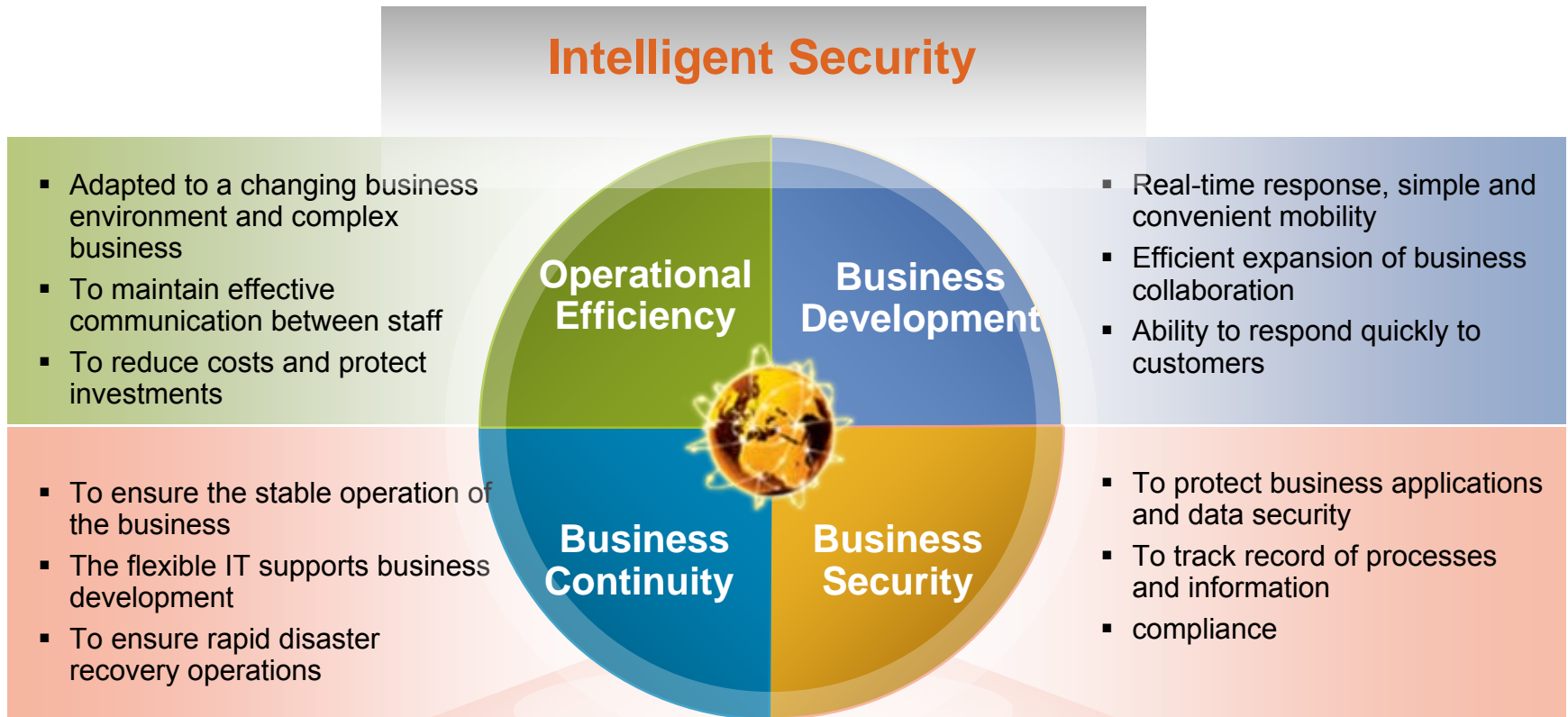
Global Security Market



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iSec -- Intelligent Security

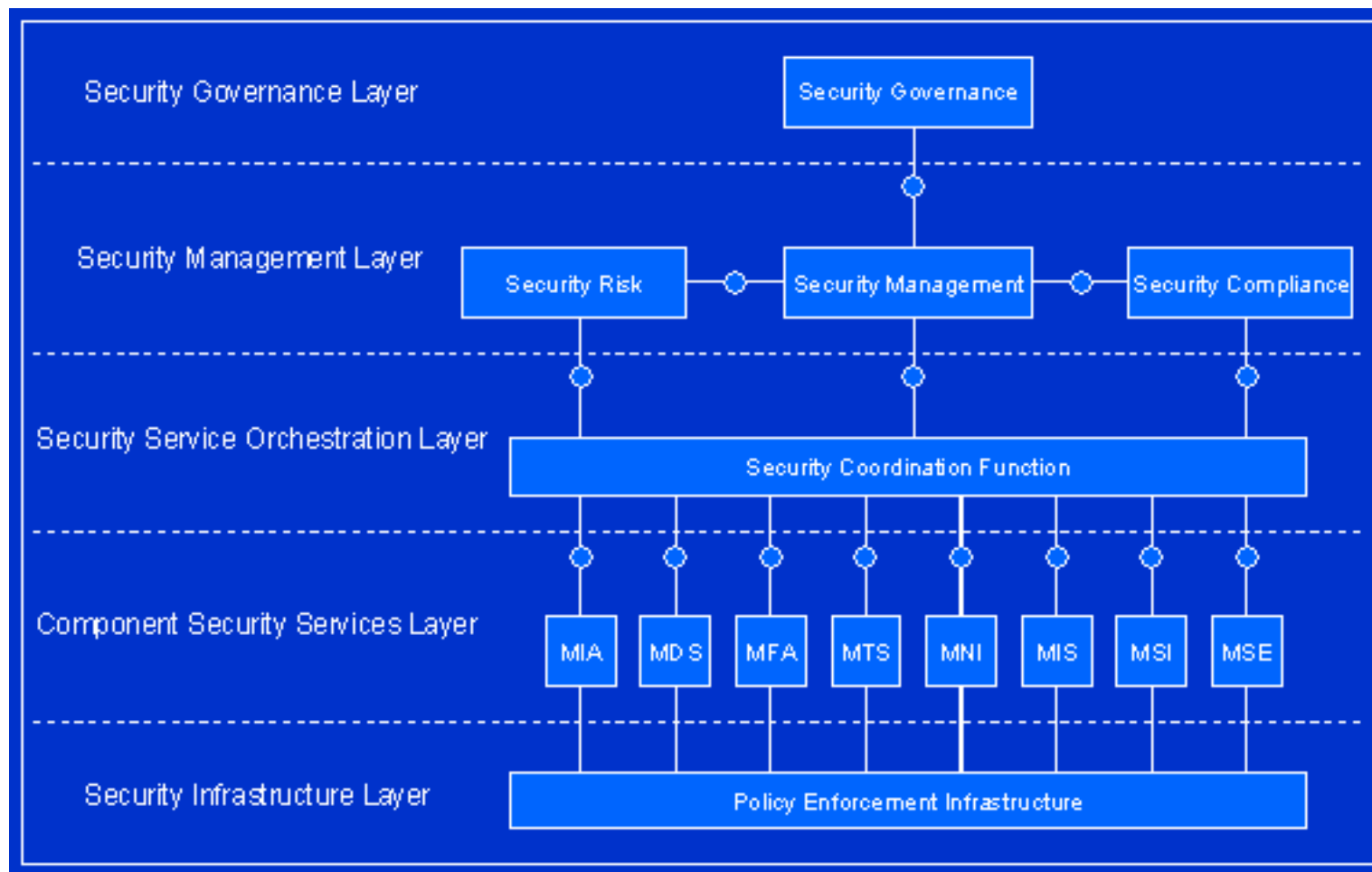


**Adaptive, self-healing, fault-tolerance,
Customized, reliable, cost-efficient, green**

Security Framework

- Security Management
- Security Co-ordination
- Identity Management
- Network Integrity
- Software Integrity
- Security Event Management

Operational Security Services



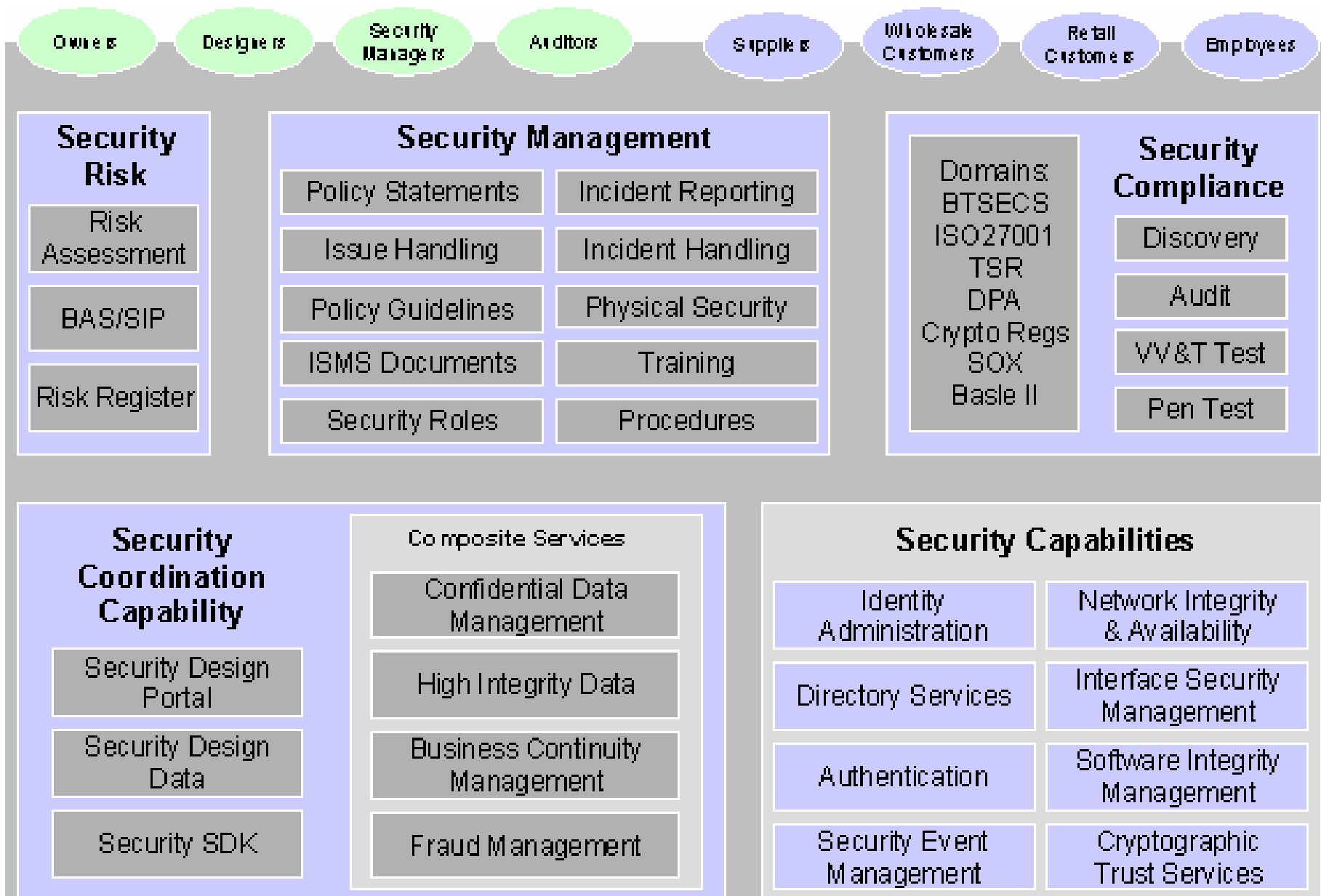
- provide the complete picture of security in real-time, across overall company

- MIA: Identity Administration MDS: Directory Services MFA: Federated Authentication
- MTS: Trust Services MNI: Network Integrity MIS: Interface Security
- MSI: Software Integrity MSE: Security Events

Security Management

- **To provide centralised security management systems and practices as applied in its trading environment, covering procedural and supervisory functions (logical and physical).**
 - Security management portal
 - Governance and policy management system
 - Risk management, risk register
 - Compliance checking tools (automated)

Security Management Architecture



Security Co-ordination

- provides the ability to design end-to-end security solutions by combining services for the mitigation of risk. It also is used to specify and control the security of information flows around the business and with trading partners.
 - Security design portal and security SDK
 - Security capability development framework
 - Templates and tools for combining security services
 - Management process engine for security policy enforcement at portals, gateways and integration
 - Management of interoperation security contracts
 - Policy based network and integration design, management and control functions

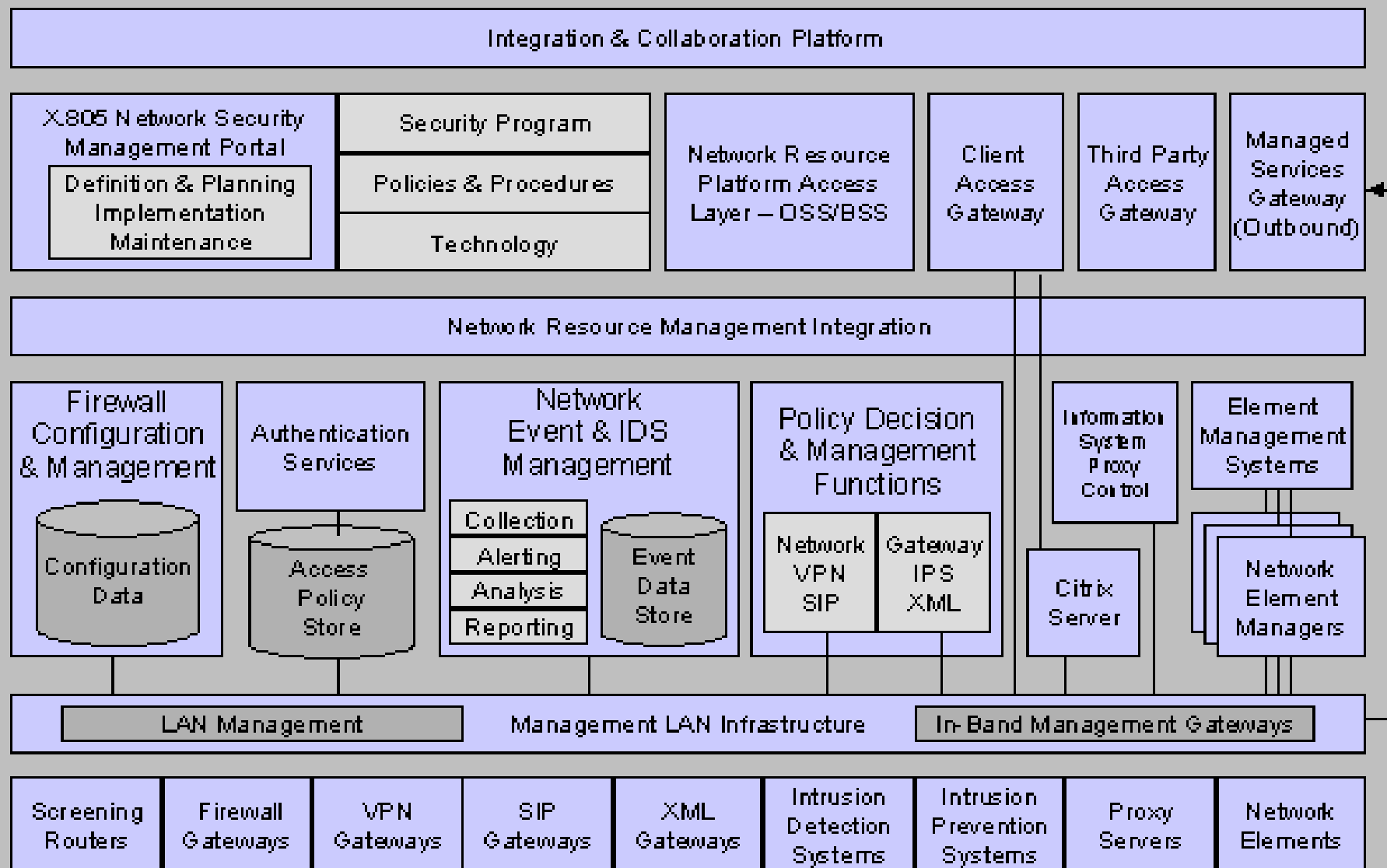
Identity Management

- know who is interacting with information assets, and how we manage authorisation of this relationship through time.
 - Identity administration
 - managing identities, identity verification, authentication, authorisation and provisioning
 - Directory services design
 - authentication and authorisation data
 - Federated authentication services
 - cross domain sharing of identity

Network Integrity

- Network Integrity Management services include
 - firewall management
 - intrusion detection and prevention systems
 - legal interception
 - network audit and event management.
- maintain the availability and effectiveness of network services and security domains.
 - Security domain definition, design and management
 - Firewall and gateway configuration and management
 - Network based Denial of Service (DoS) protection
 - Remote access gateways
 - Network activity monitoring

Network Integrity Architecture



Software Integrity

- **Security Software vs. Software Security**
- To build, secure software systems and maintain their integrity.
 - Software integrity assurance (anti-virus etc.)
 - Security configuration & security policy compliance tools
 - Trusted software sources and updates
 - **Software security testing (black box testing & white box testing)**
 - License acquisition and management

Security Event Management

- To audit, log, monitor and investigate security events and incidents across the end-to-end processes to make parties accountable for their actions
 - Security events and incident detection
 - Security alarms and alerts management
 - Centralised security event logging and correlation
 - Real-time monitoring of end-to-end events
 - Support tools for incident management and investigation
 - Audit report generation
 - Vulnerability probing and Management

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Strength of Huawei Symantec Security

1

Know what operators need

- Provide end to end telecommunications solutions
- Serves hundred of the global operators

2

Do what operators want

- High availability
- High performance
- Multiple Interfaces
- Secure Routing
- Data protection

3

Cooperate with Symantec

- Security & storage
- Source code level
- Test level
- solution level
- commercial level

Advantages of Huawei Symantec Products

- High availability
- High performance
 - High throughput for FW and DPI
- Multiple features
 - GTP/P2P/AV/IPS/URL filtering
- Multiple interfaces
 - FE/GE/10GE
 - 2.5G/10G POS
 - E1/ADSL 2+
- Multiple protocols support
 - OSPF/RIP/BGP
 - IPsec/MPLS/L2TP

Security

- High availability
 - Full redundancy
 - Integrated UPS and Data Protection
 - Intelligent Cache Prefetch
 - Intelligent cooling system
- Flexible architecture
 - iSCSI/FC/SAS interfaces
 - SATA/SAS/FC/SSD disks
- Green
 - S3 standby
 - Hard drive spinning down

Storage

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Security Standards

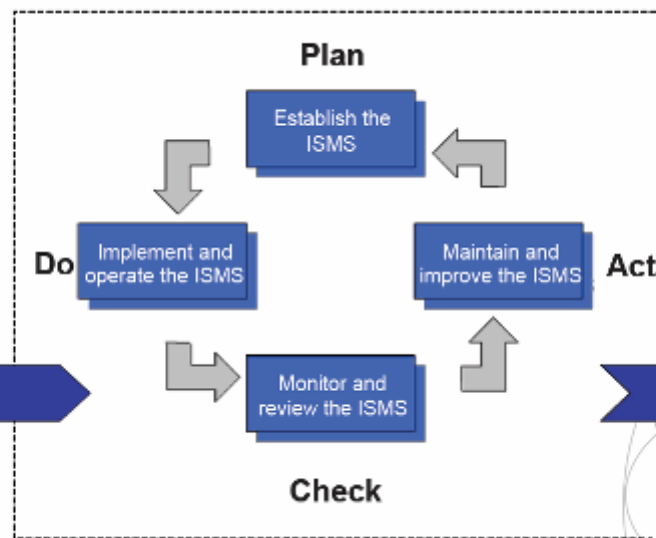
- Governance and compliance

- ISO 27001

Risk Assessment and Treatment
Security Policy
Organization
Information Security
Asset Management
Human Resource Security
Physical and environmental security

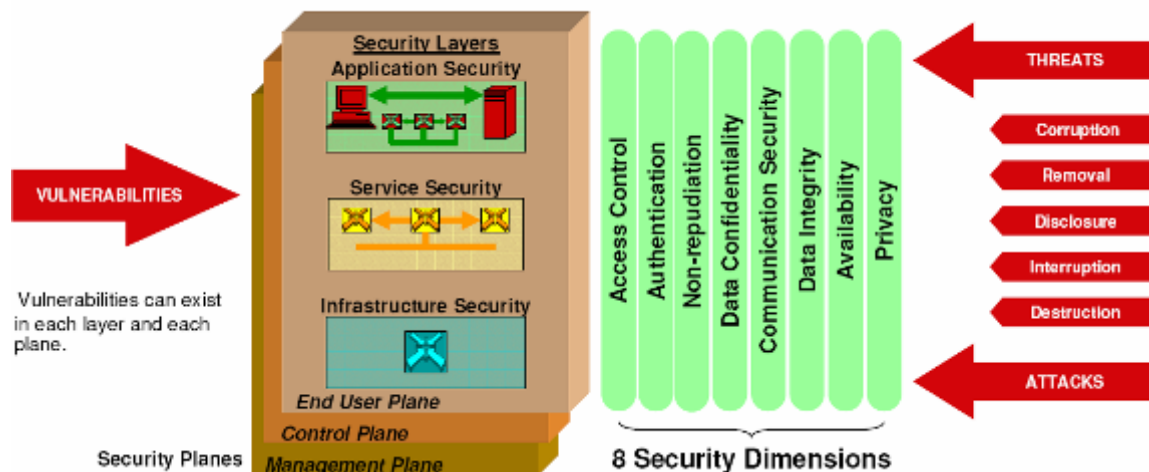
Communications and operations management
Access control
Information systems acquisition, development and maintenance
Information security incident management
Compliance

Stakeholders
Regulators
Business Partners
Customers
Shareholders
Information security requirements and expectations

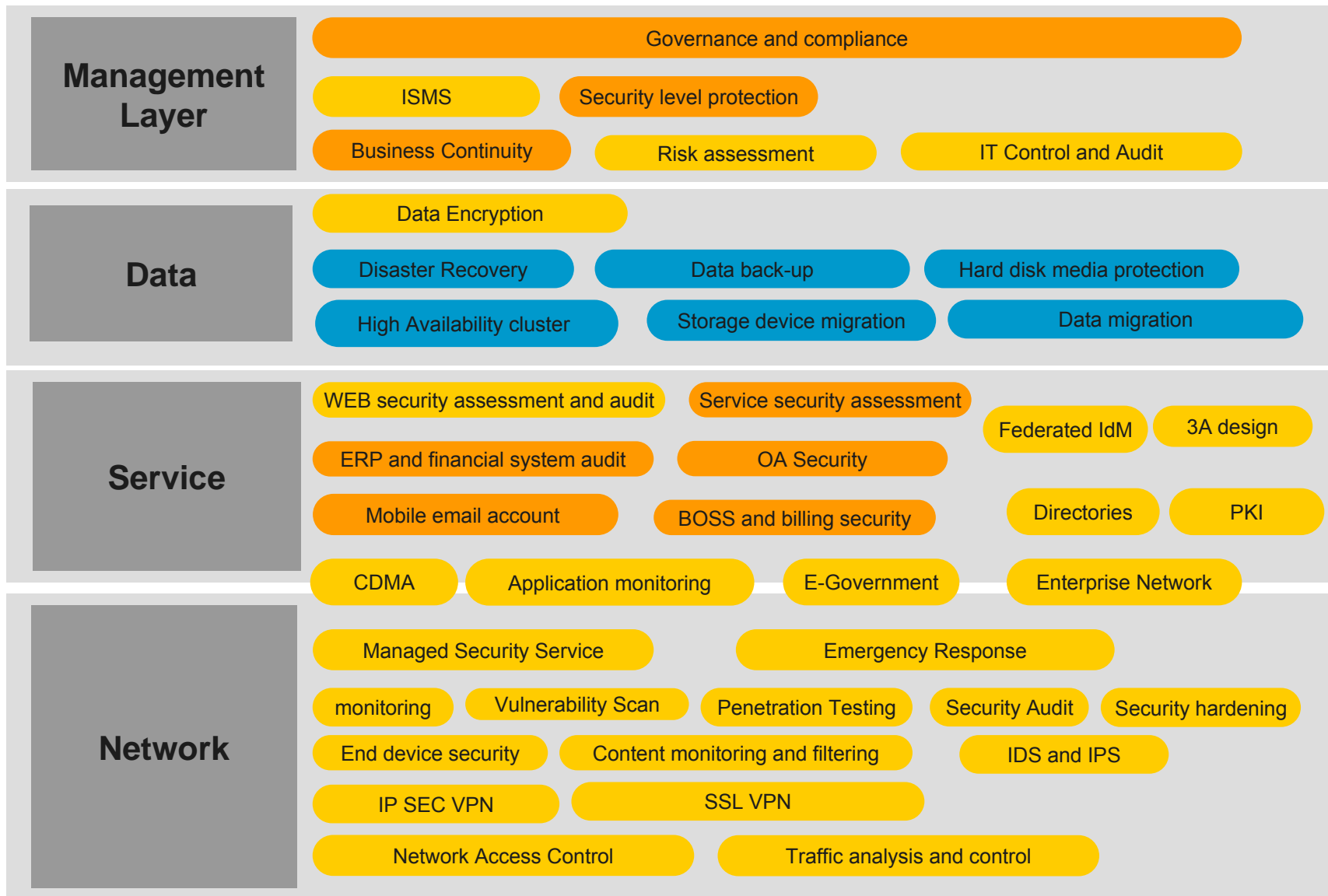


Stakeholders
Regulators
Business Partners
Customers
Shareholders
Managed information security

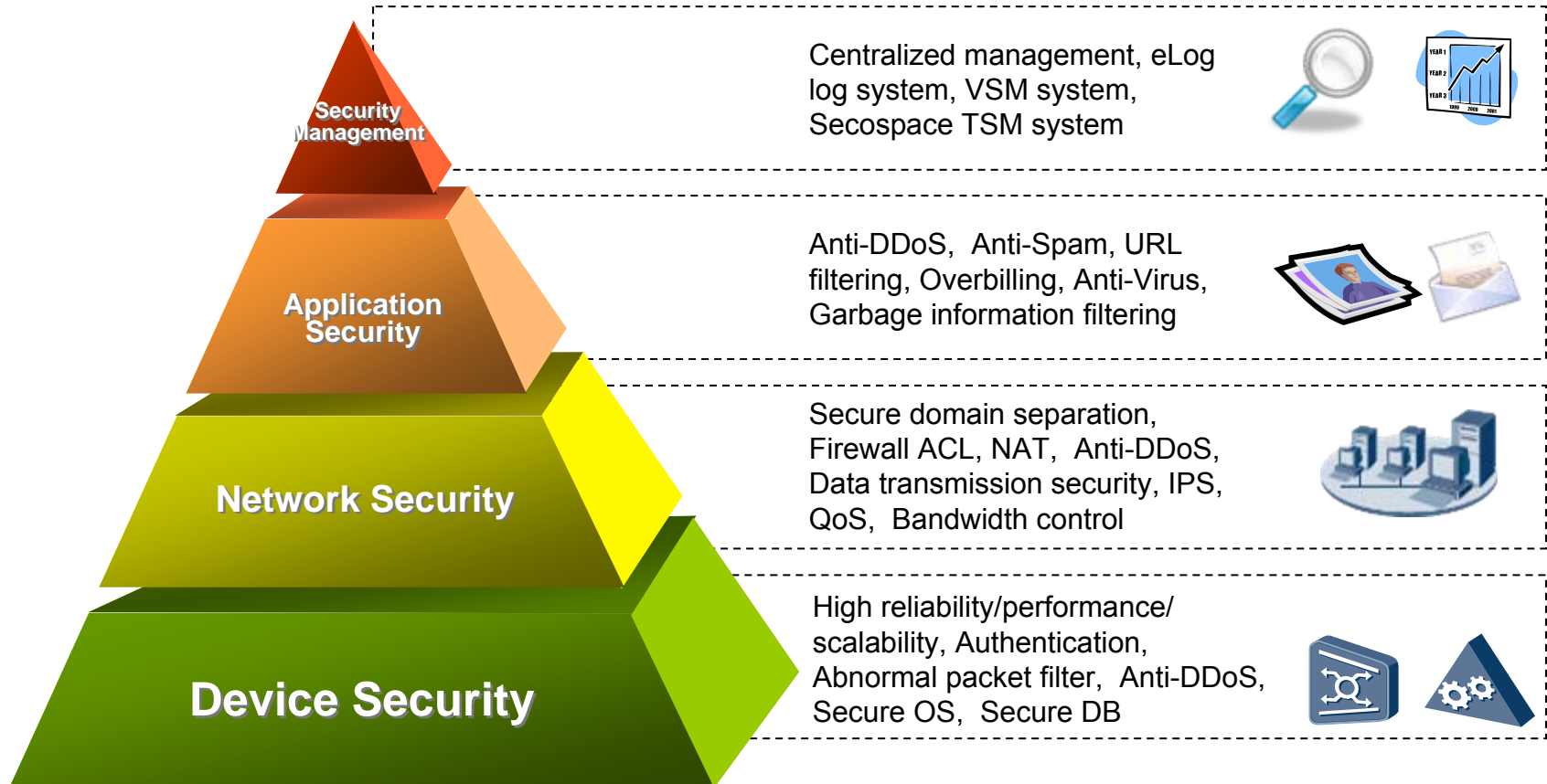
- ITU X.805



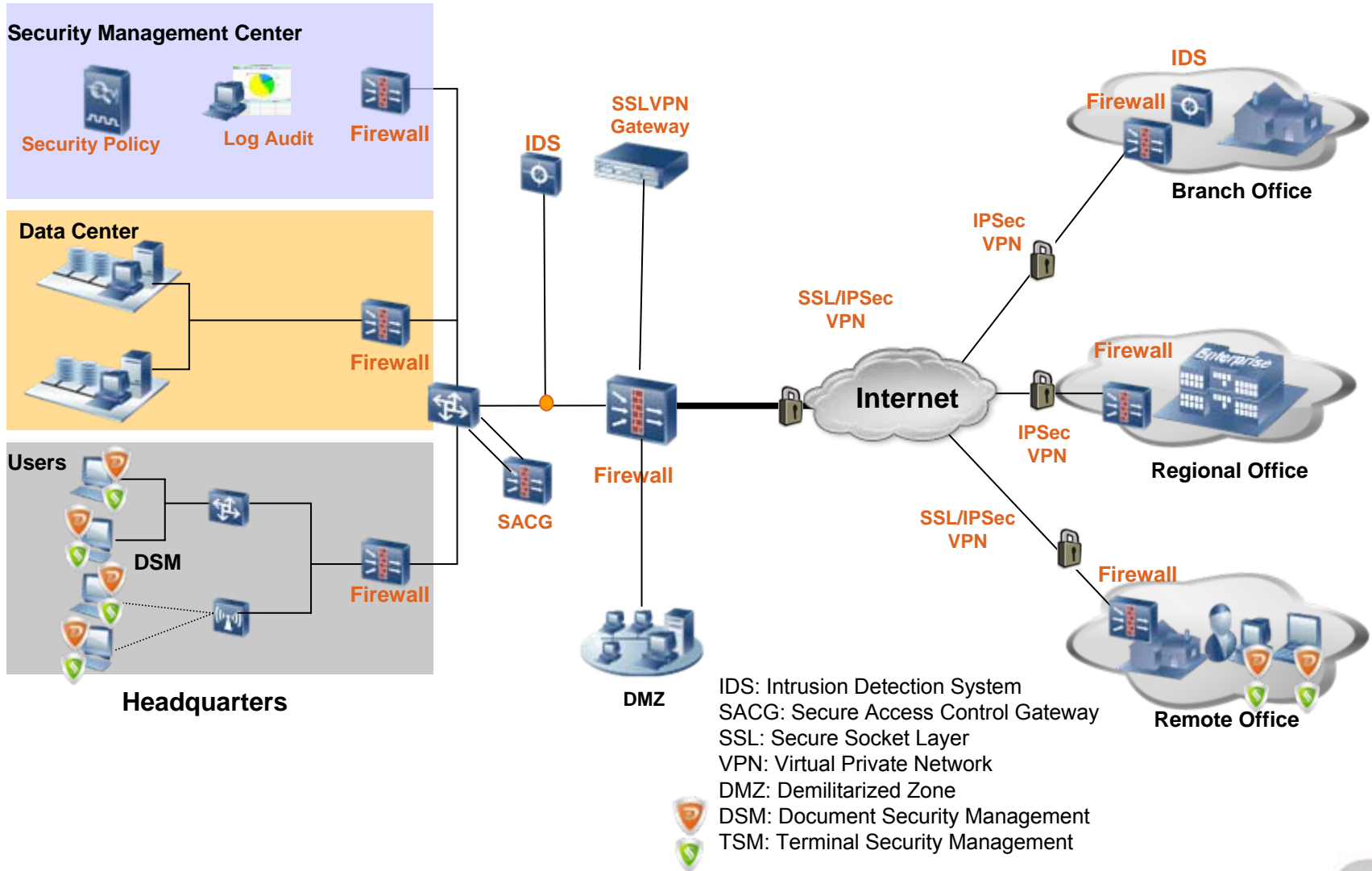
Layered Security



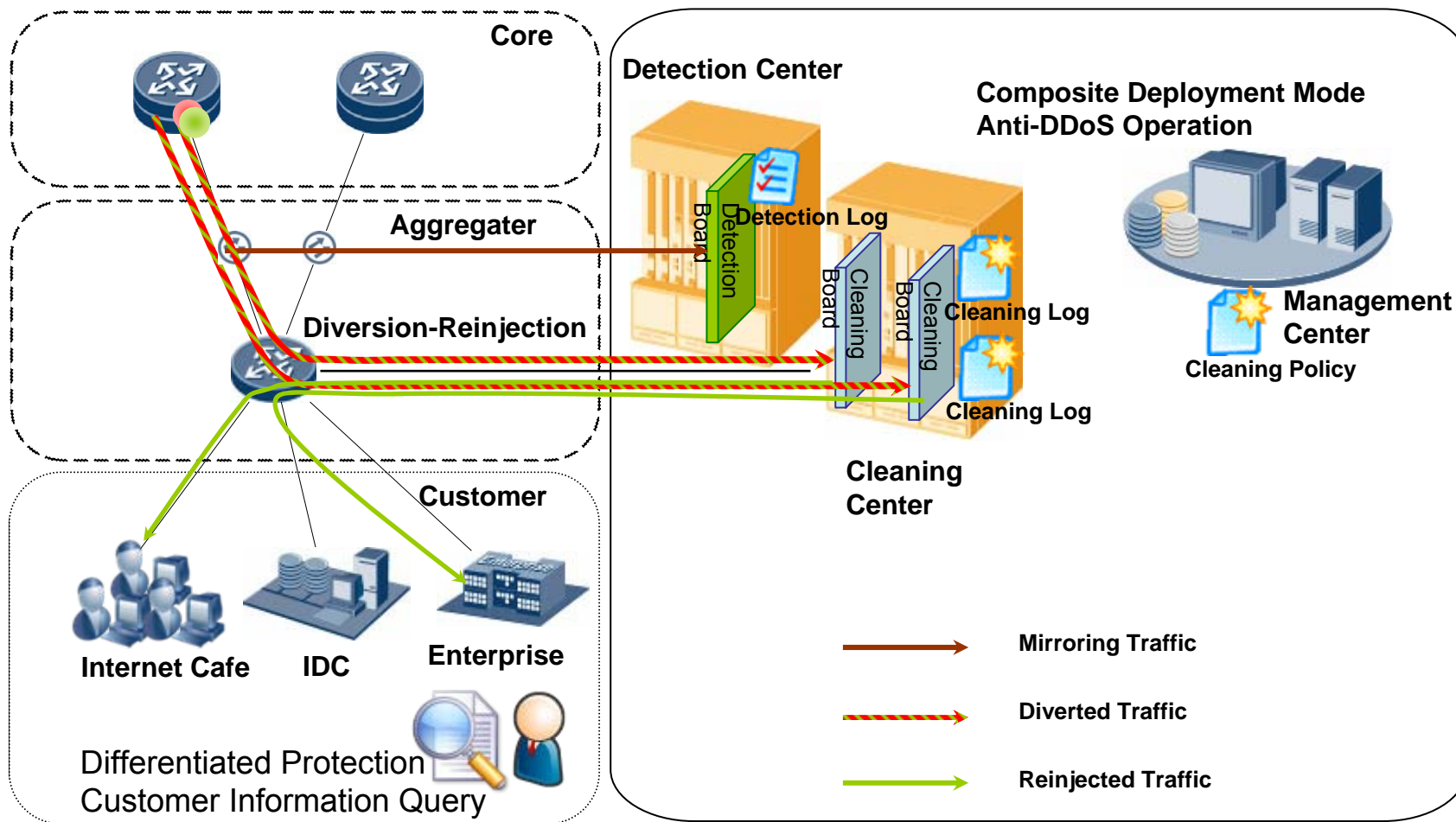
Security Solutions



Security Solutions Overview

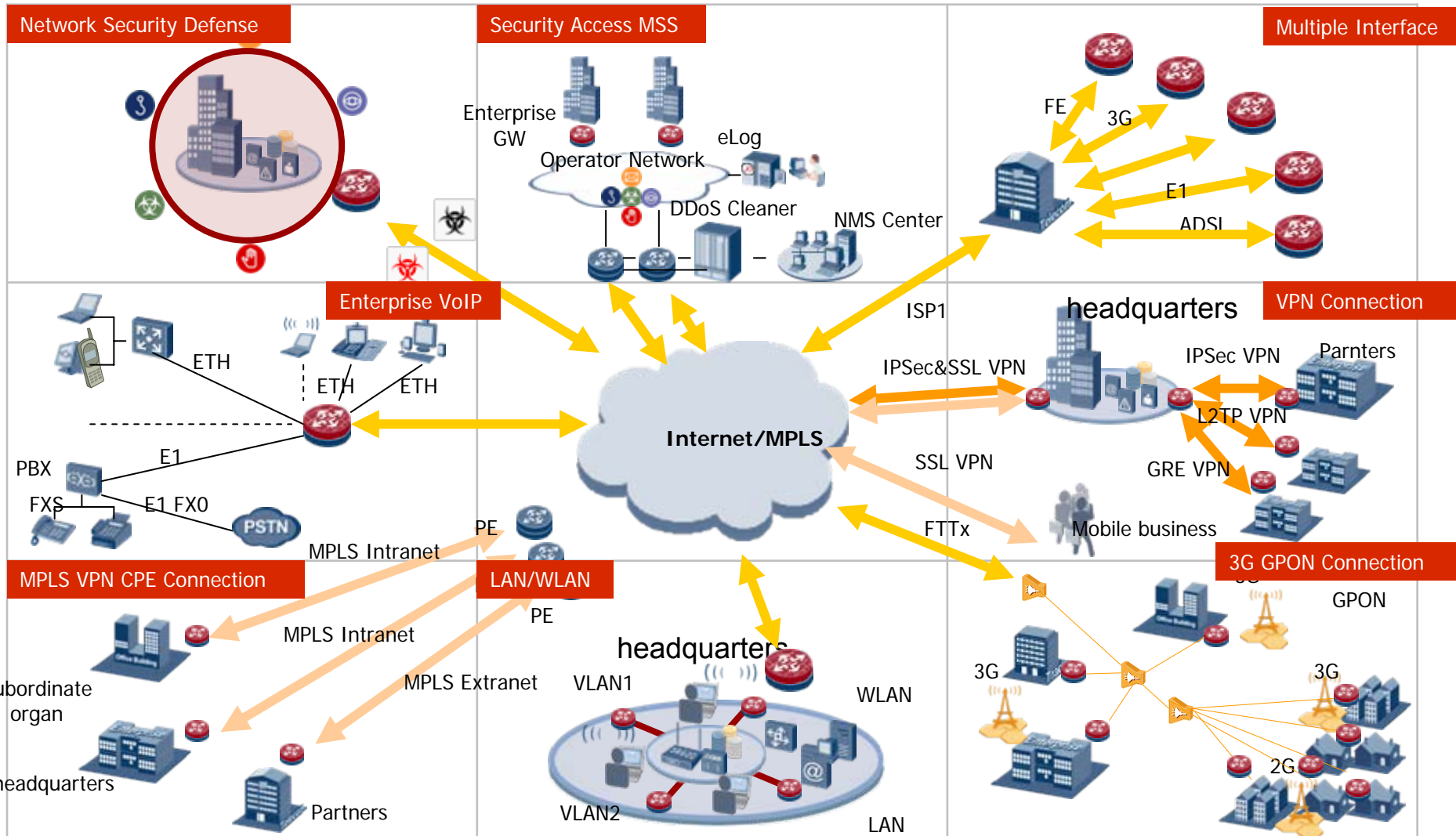


Clean Pipe Solution

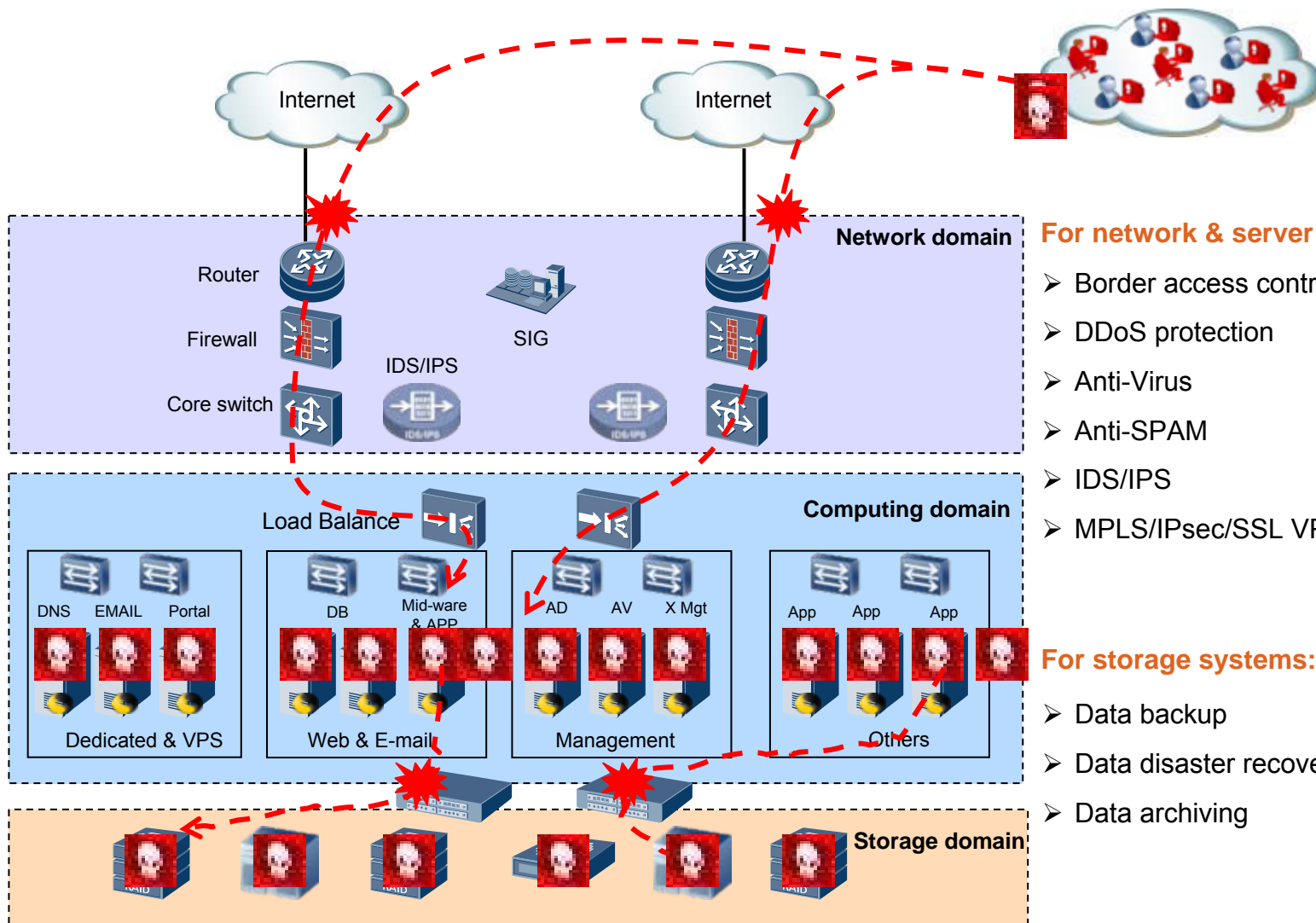


- Provide real-time protection for downstream enterprises, IDCs or other users, and provide Anti-DDoS services.
- Detection device can be Netflow detection device or DPI detection device

Security Router Gateway



Threats & Security Solutions to IDC



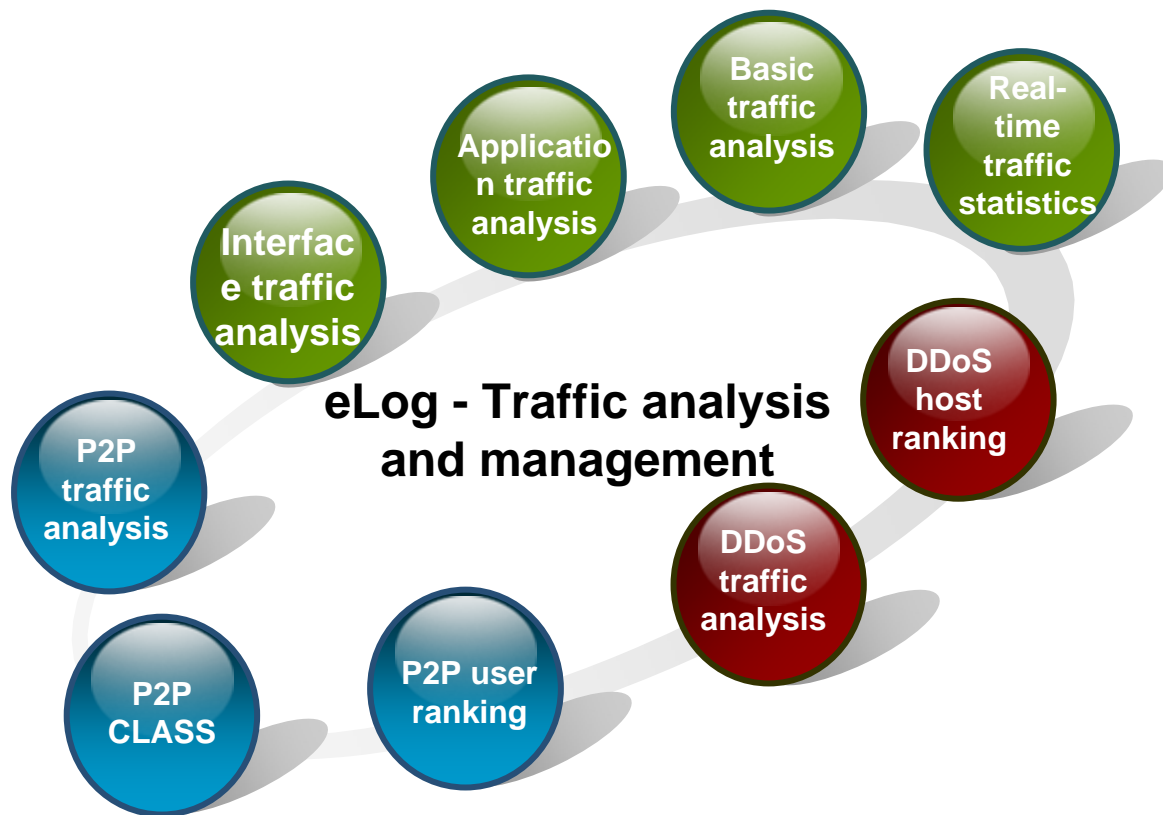
For network & server domains:

- Border access control
- DDoS protection
- Anti-Virus
- Anti-SPAM
- IDS/IPS
- MPLS/IPsec/SSL VPN

For storage systems:

- Data backup
- Data disaster recovery
- Data archiving

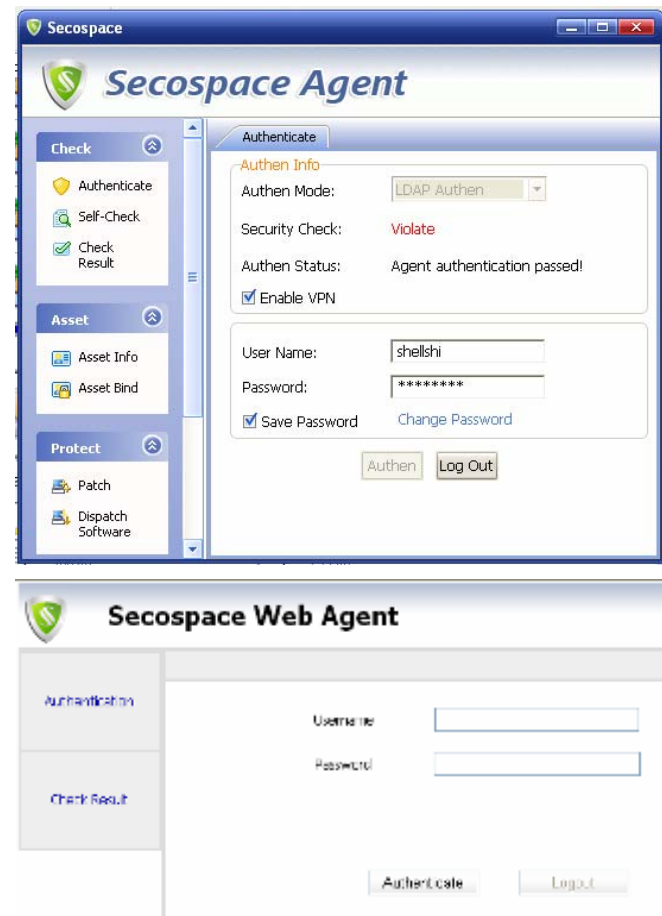
Secoway eLog system



- Real-time monitoring of equipment and network traffic
- High-capacity and reliable log storage management
- Precise log analysis and real-time alarm
- Rich report functions
- Flexible networking
- Reliable solution

Secospace TSM/DSM for NAC Solution

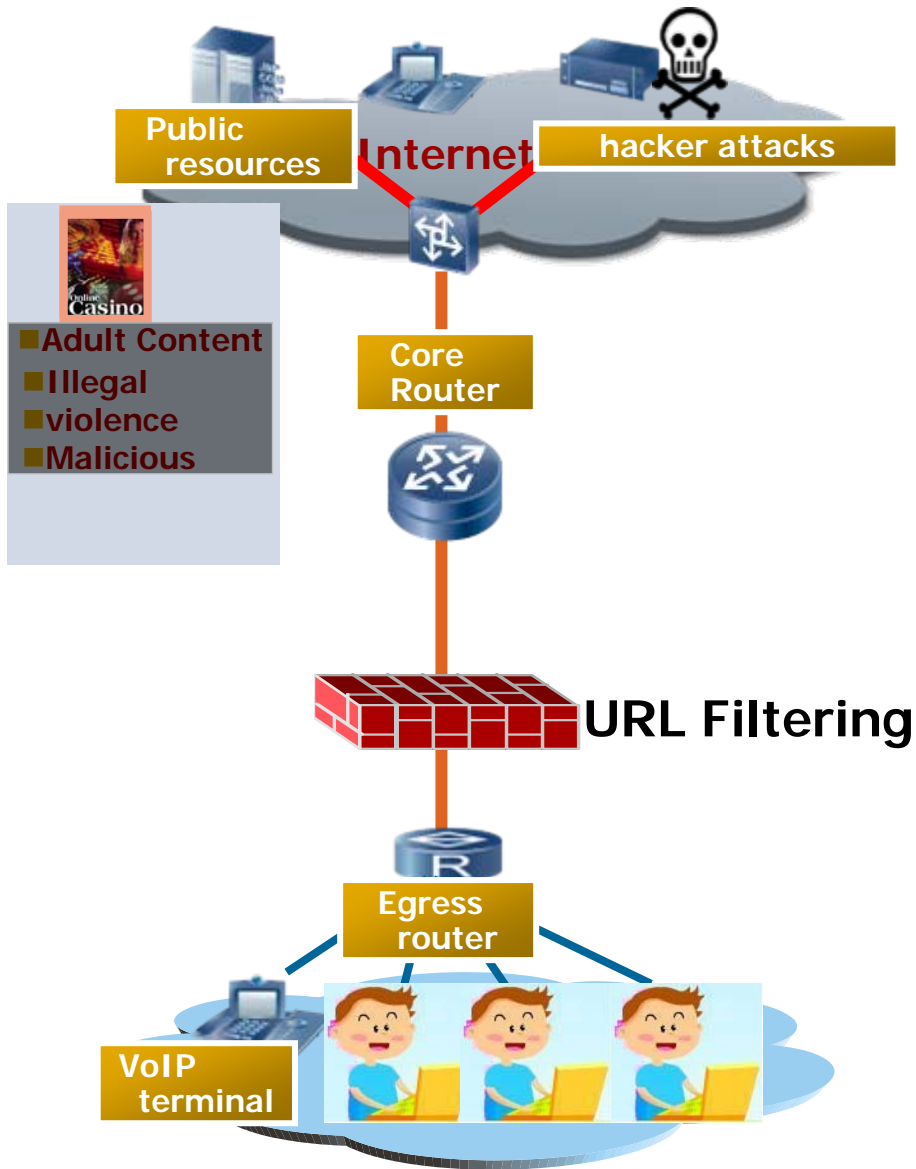
- One Agent Functions
 - Network access control
 - Document rights management
 - Antivirus & patch check and remediation
 - Program control
 - Employee behavior management
 - Asset management
 - VPN client
 - Software distribution
 - Auditing & reporting



URL Filter service

URL Filter

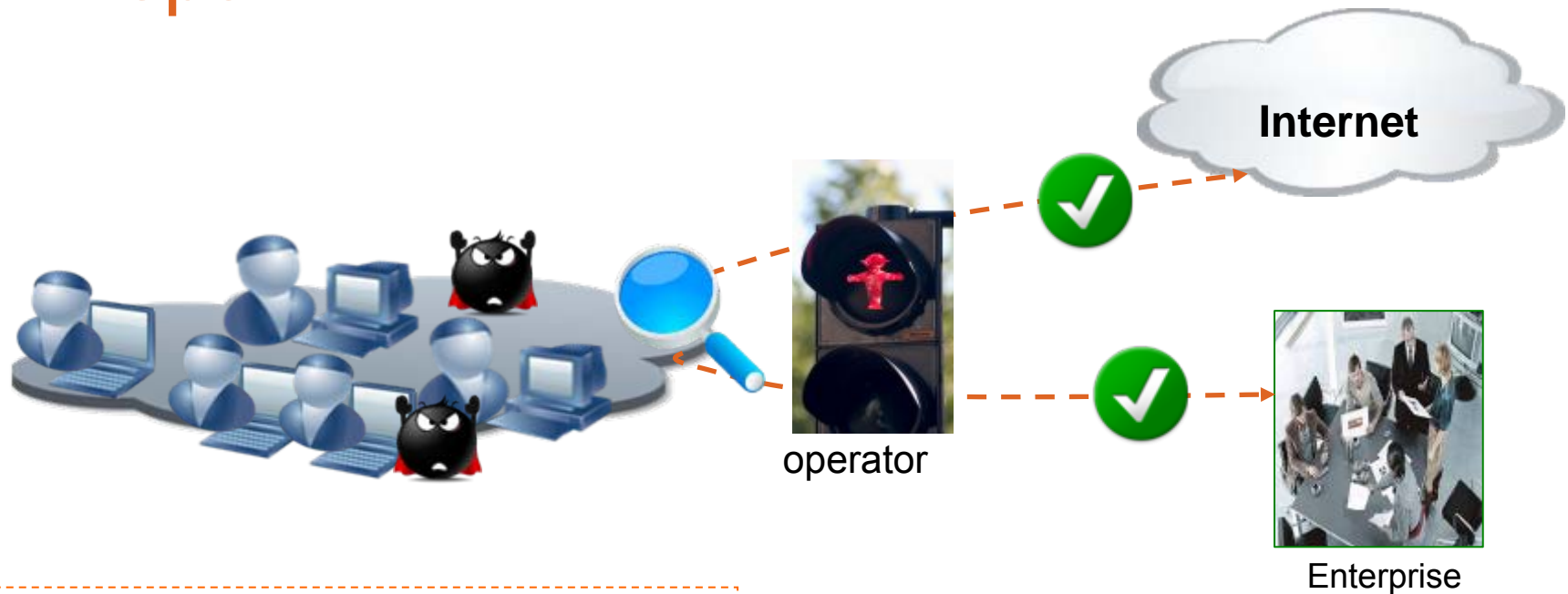
Anti-Virus



1. Malicious information severely is poisoning the youth.
2. Various malicious Web site steal the private information



Anti-spam



Operator can control the problem zone:

- Limit the mail number sent simultaneously by a PC
- Block a malicious PC to send mails
- Limit the bandwidth by which a PC can send mails

Operator can also avoid:

- Massive outbound spams cause 3rd parties to add the public IP address into blacklist, so the valid subscribers using IP address cannot send mails normally.

Kind Indication by operator

Your computer is suspected to contain virus, so please disconnect your computer from Internet and clean the system.



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Middle East Operator Security Assessment

Security Consulting

- Security policy, process and organization review
- Risk assessment and audit of network infrastructure, application and service, data and management process

Device Security

- OS hardening,
- Patch servers
- Turn off service/port to reinforce the system and device security, minimizing the risk level.

Security Enhancement Plan

- Security technology
 - FW
 - VPN
 - DPI
 - Secure Router
 - NAC
 - Anti-DDoS
 - IAM
 - SoC
- Security management system and process

Emergency Response

- BCP for data and system
- Attack countermeasures
- System hardening
- Forensic analysis

Beijing Olympic Games Protection



- Background

- Beijing CNC, the dedicated 29th Olympic Games telecommunication sponsor, was responsible for the protection of Olympic networks and providing Internet and information services.

- Solutions

- **Huawei Symantec provided firewalls, Anti-DDoS and DPI Solutions**

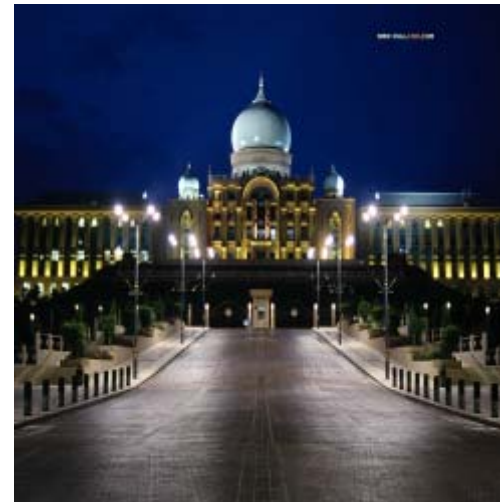
- Result

- China held the Olympic game successfully. Our security solutions and services protected the network of the Beijing CNC for Beijing Olympic games.

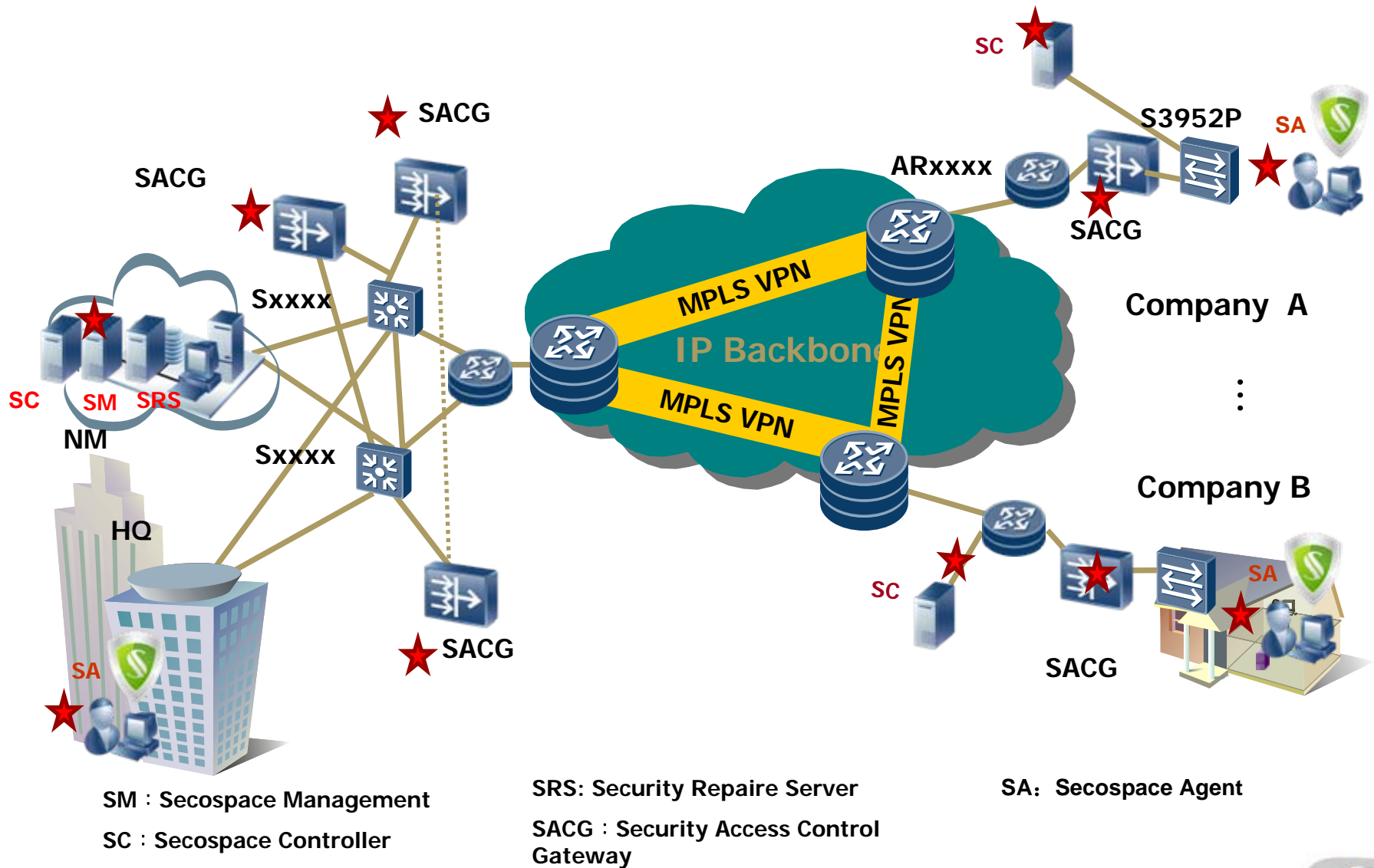


Malaysia Maxis PS Security Solution

- Background
 - Maxis is the biggest operator in Malaysia with more than 10M subscribers.
 - Maxis needs a new PS domain security solution for the replacement of the old ones.
- Solution
 - **Deploy Huawei Symantec E8000E & E1000E firewalls for the protection of the Gi, Gn, Gp domains.**
- Result
 - Protect the PS domain of Maxis from illegal access and DDoS attacks.
 - Support GTP protocol analysis.
 - Replace another vendor's firewall.



Terminal Security for North Electrical Network



Peru NII Data Core Network Security Solution

Challenges

- NII is the subsidiary of Sprint Nextel, the third biggest carrier in America.
- With the fast development of data services, the traffic increase dramatically which causes security concerns especially its intra service
- Traffic of different service needs to be separated according to predefined strategies to guarantee the network security.

Solution

- 8000E and 1000E are deployed with core switch in different layers, which support multiple security zones (Local zone, Trust zone, Untrust Zone, and Demilitarized Zone (DMZ)).
- By setting different security defense policies between security zones, the information flow going into and out of the security zones can be monitored flexibly and effectively.

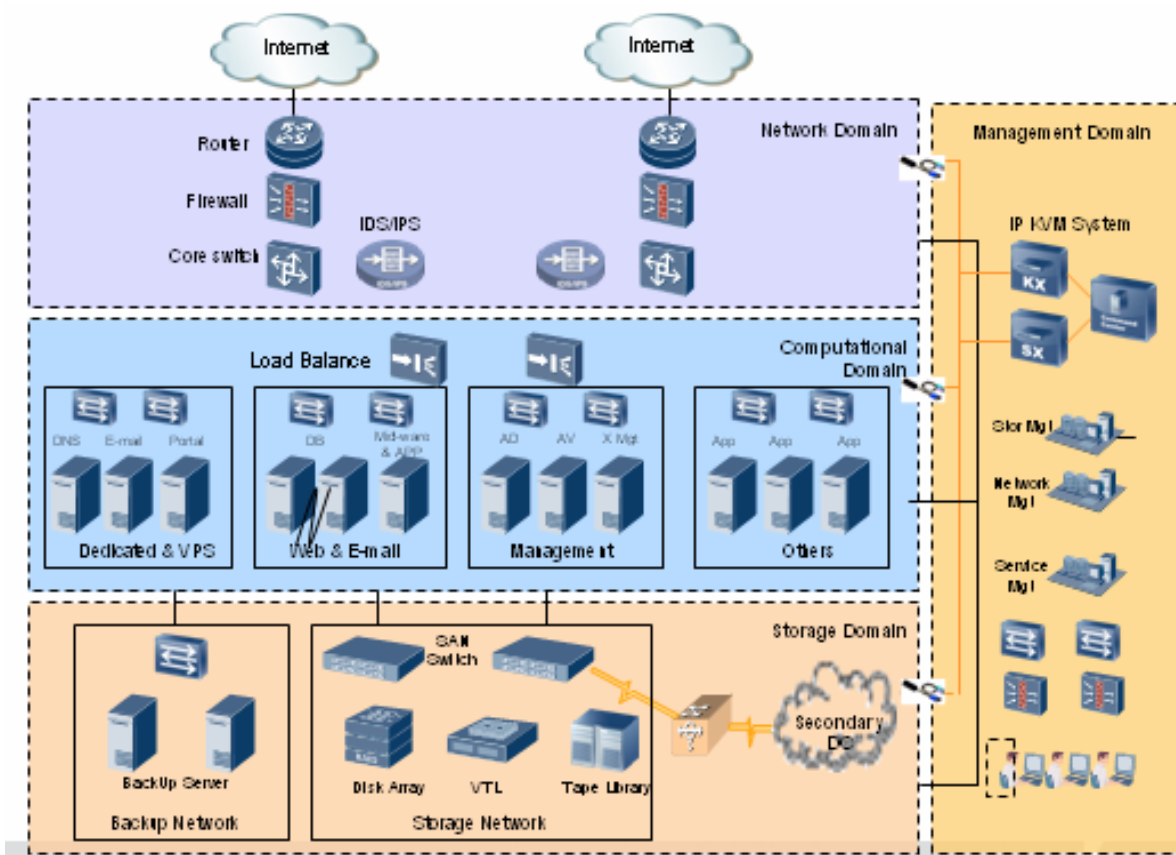
Benefits

- To protect network from attacks, which ensures secure network for the business system of the customer.



IDC Solution for Chinese Operators

- Solution
 - Network architecture
 - Storage solution
 - Security solution
 - Server solution
- Cases
 - Anhui Telecom
 - Fujian Telecom
 - Shijiazhuang Telecom
 - Zhangjiajie Telecom
 - Chaozhou Telecom
 - China mobile Henan
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Value for Enterprise

Strategy

- Leading the trend
- From the cost centre to the revenue generator for security

Brand

- Customer-oriented brand
- Professional security authority

Sales

- Security is a great business to provide stable cash flow
- Growth for high profit

Customer

- Focus on core business to improve the competitiveness
- Reduce TCO and improve QoS of security service

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Thanks

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