



Cisco Small Business

Обзор продуктов и
построение решений



Денис Сафонов

Менеджер Cisco SB (COBO)

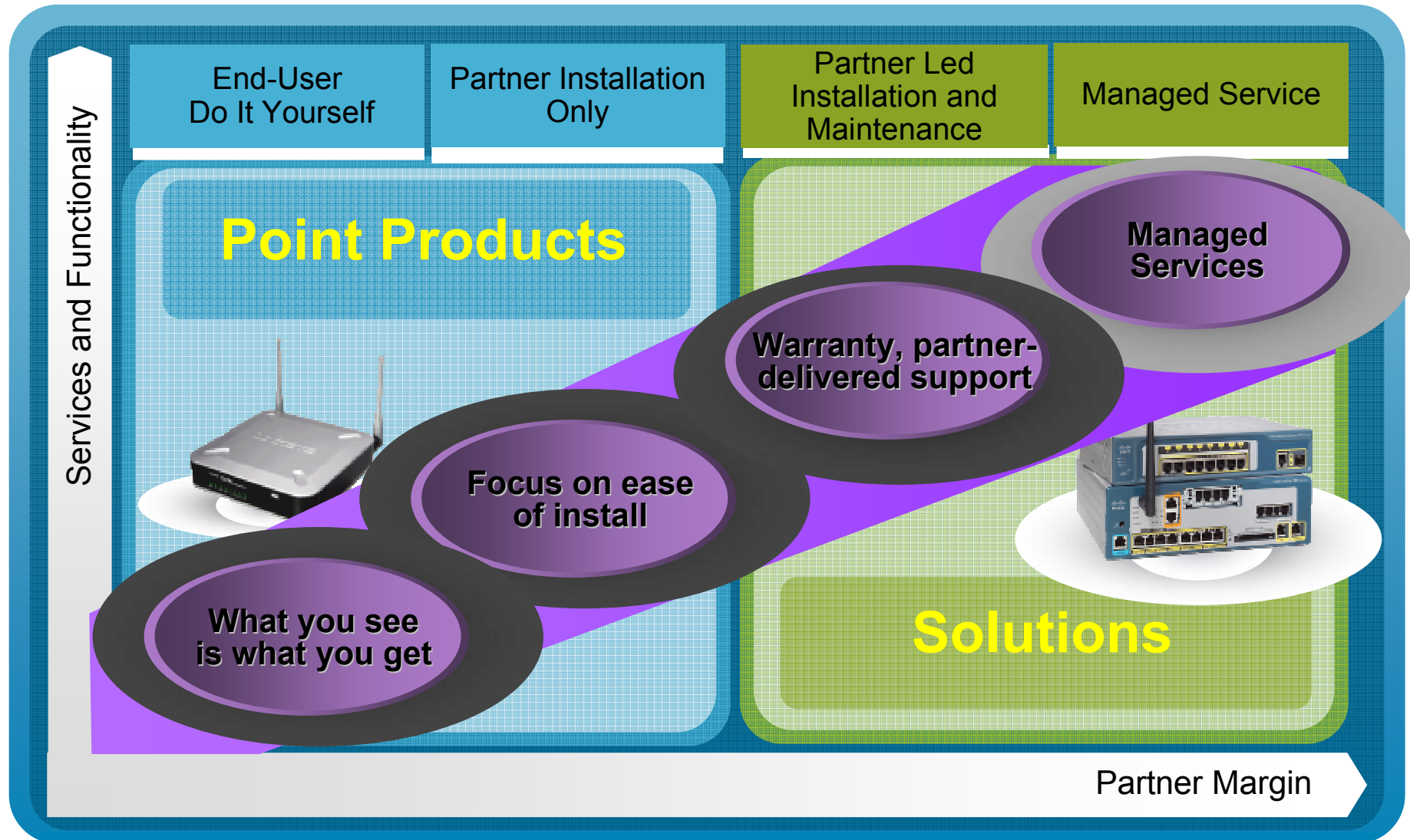
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История



Cisco Small Business Portfolio

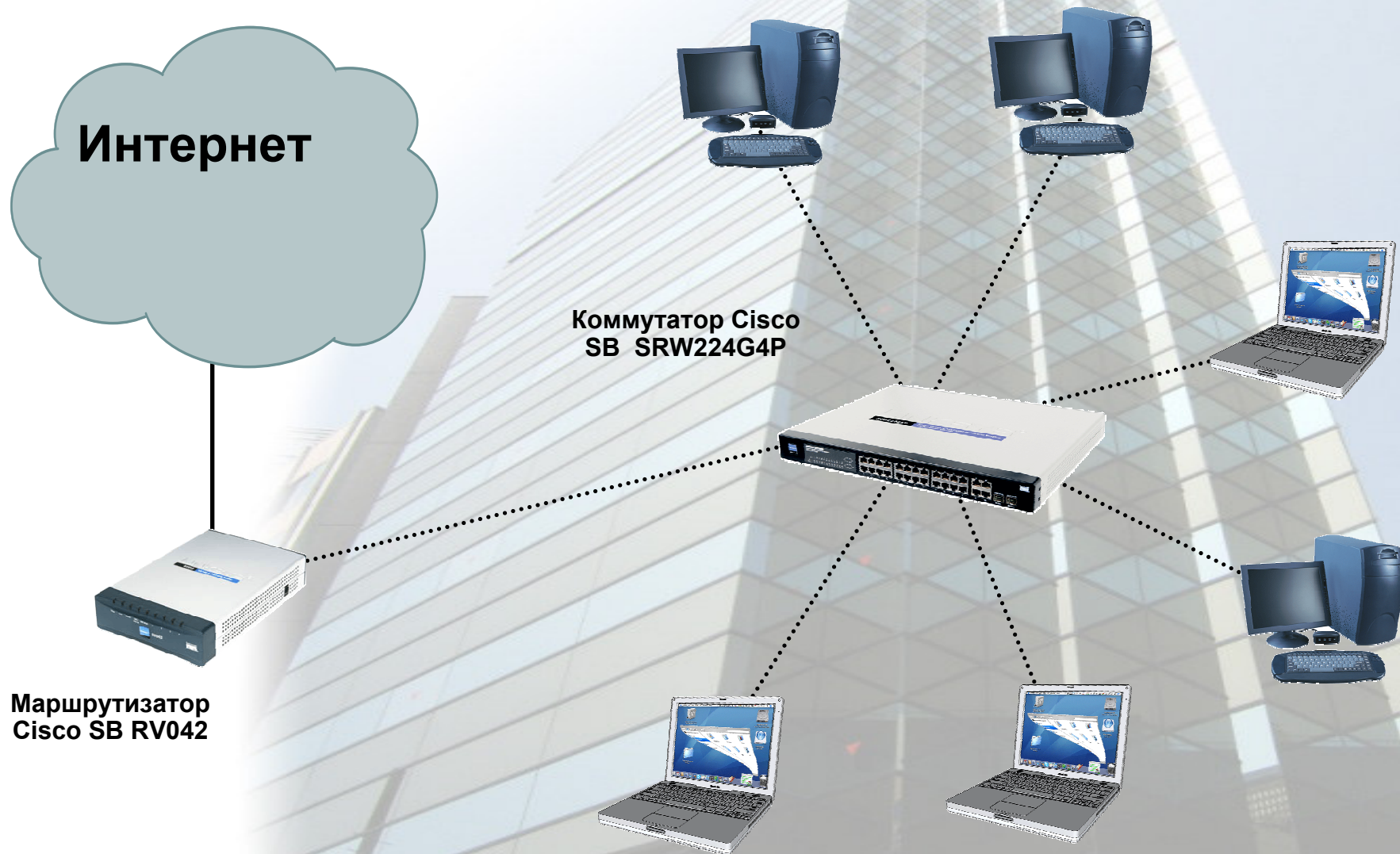
Spectrum of Choices for Diverse Customers



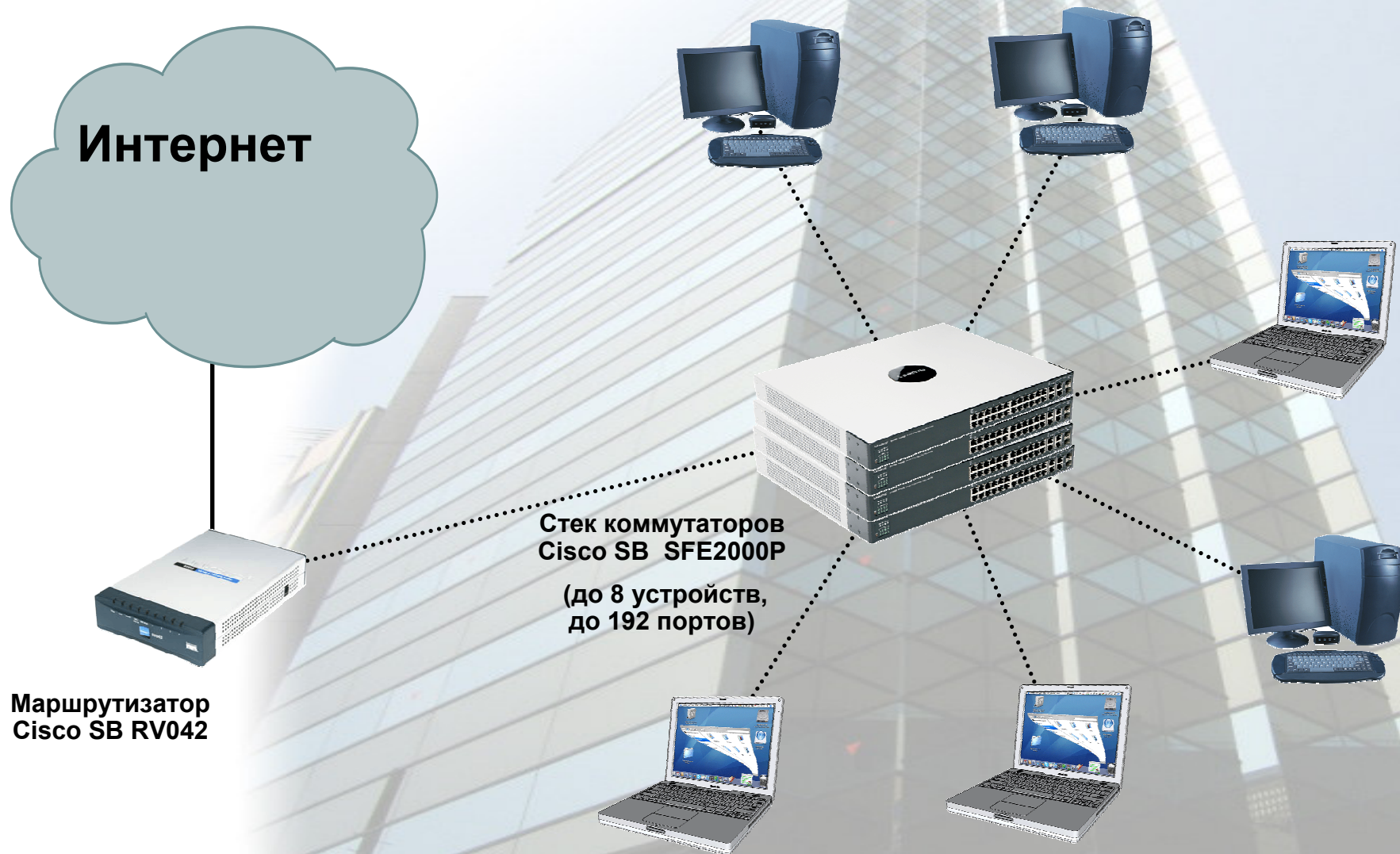
Что строим?



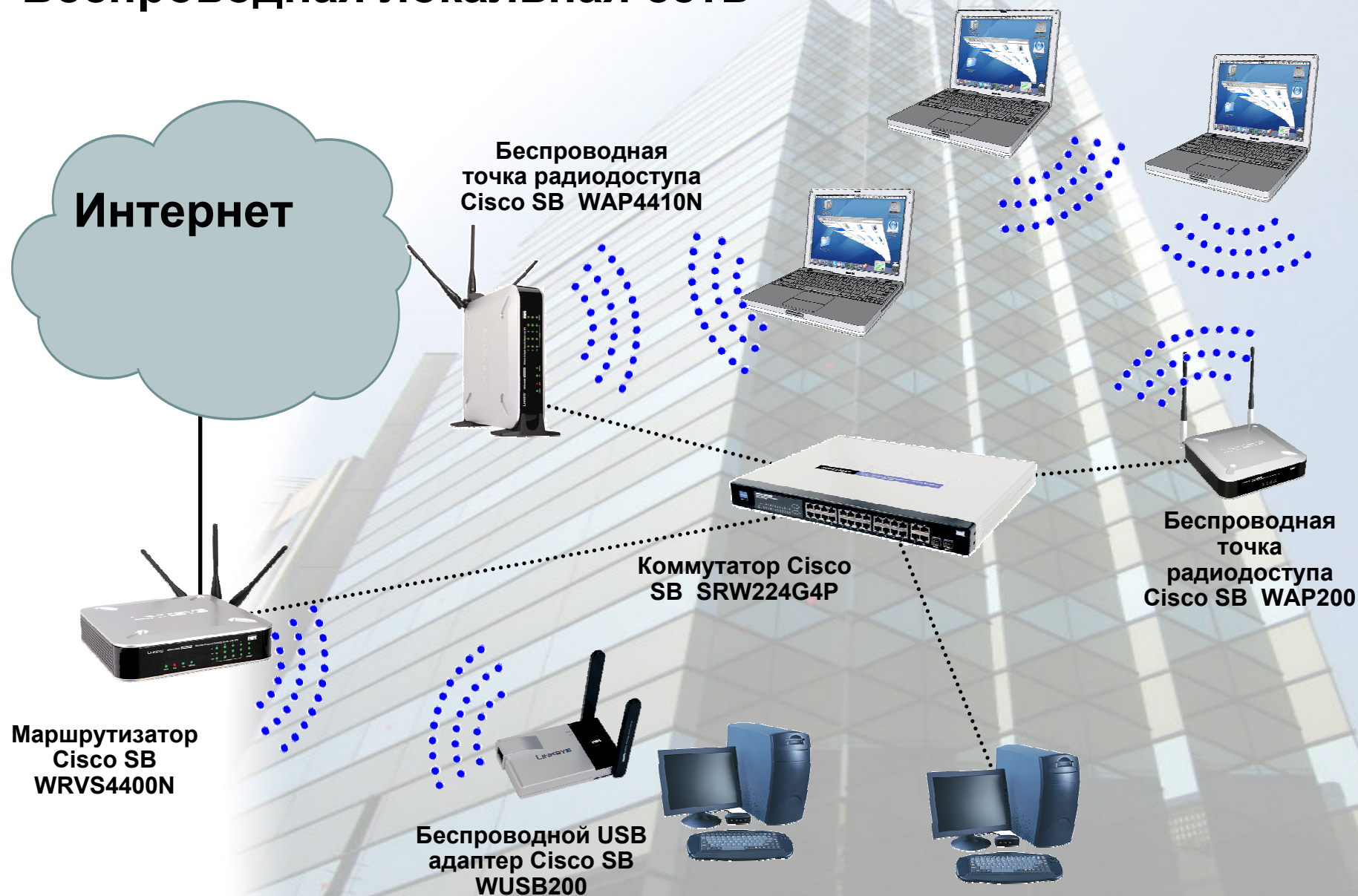
Локальная сеть внутри офиса



Локальная сеть внутри офиса с большой плотностью портов



Беспроводная локальная сеть



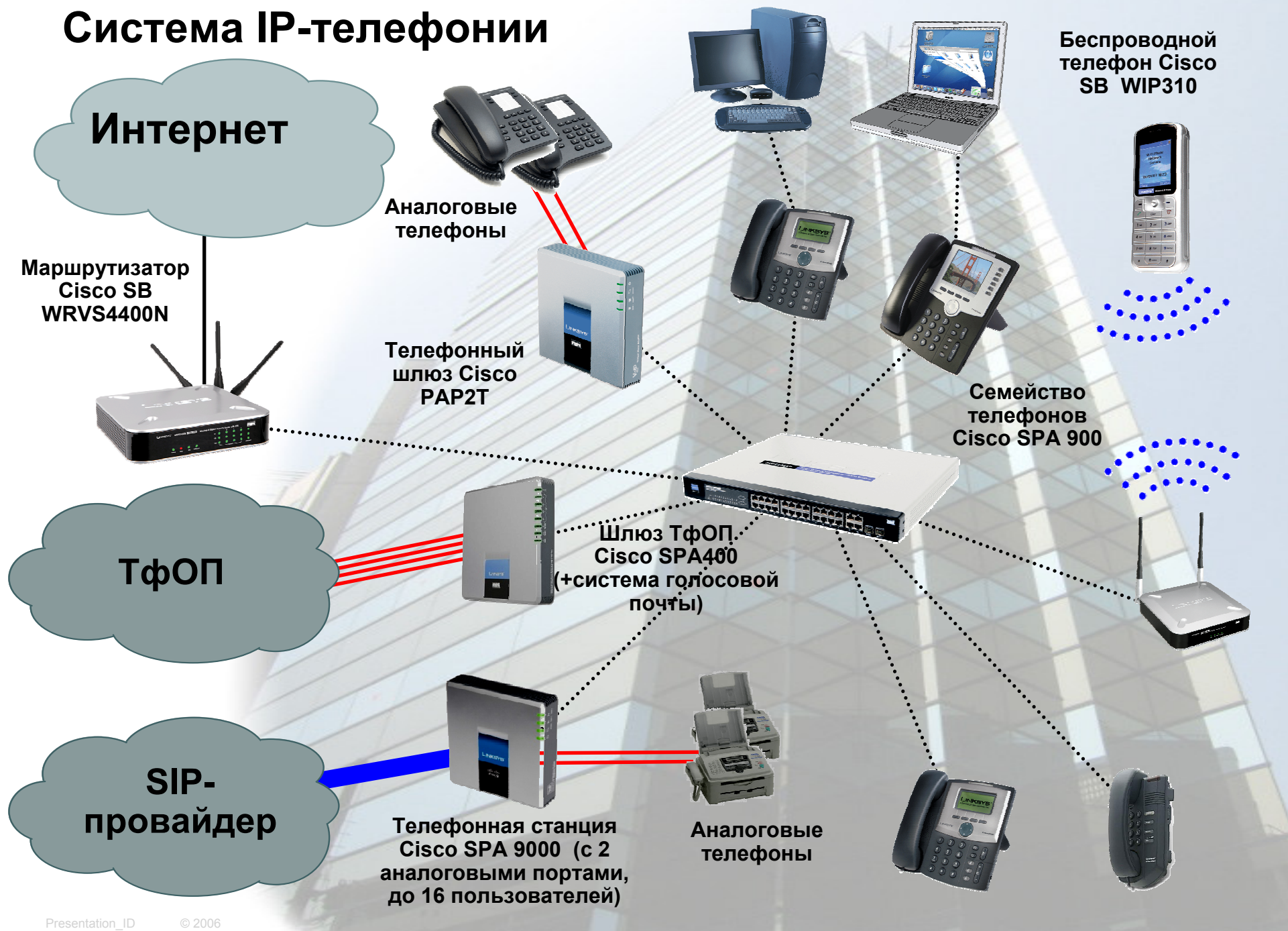
Система видеонаблюдения



Система сетевого хранения данных



Система IP-телефонии



Преимущества



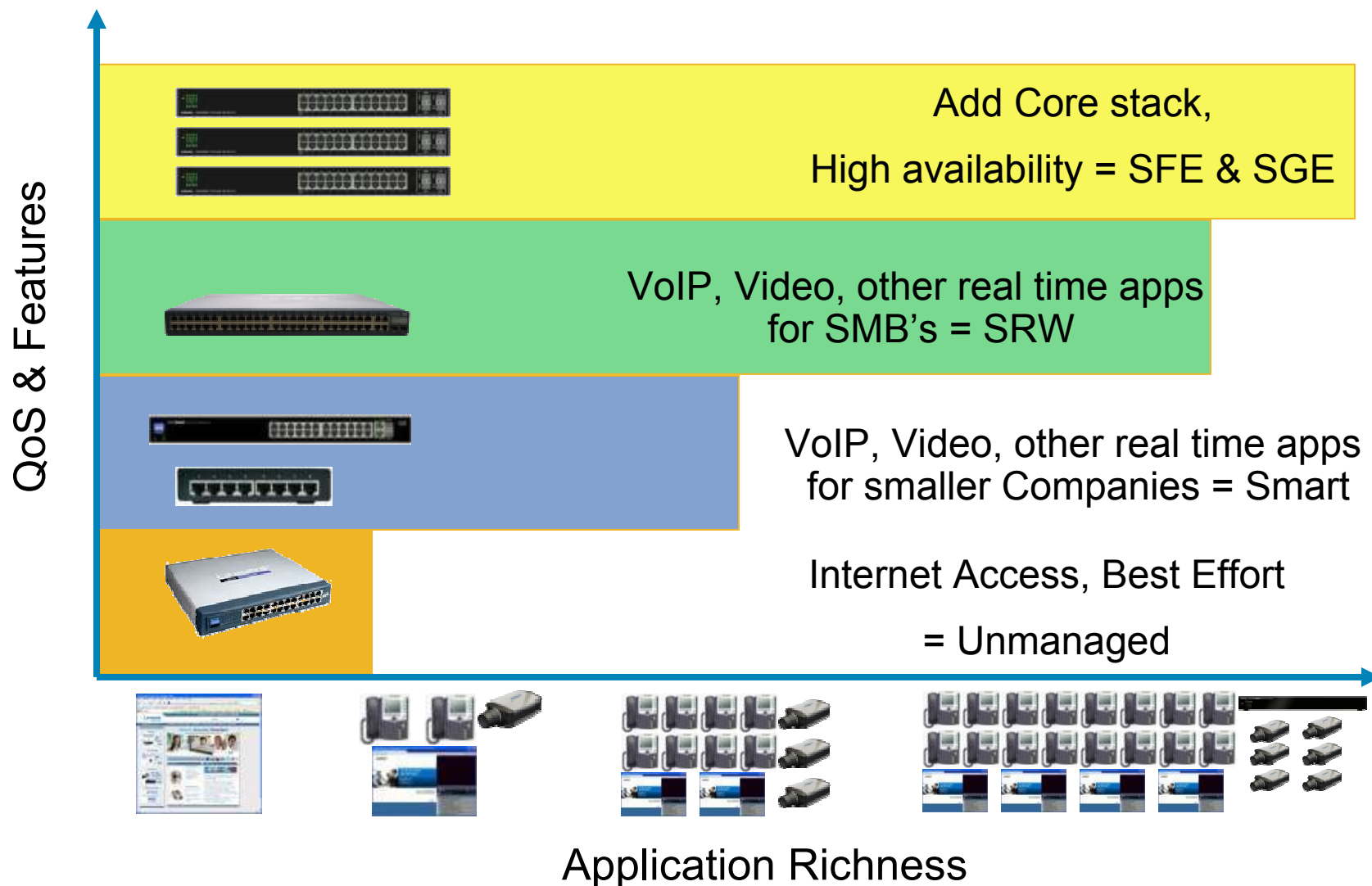
Преимущества решений Cisco Small Business

- **Простота развертывания, настройки и управления**
- **Надежность**
- **Масштабируемость**
- **Максимально полная линейка решений – все, что нужно для вашей сети**
- **Доступность**

Портфолио



Switch Positioning



Switch Comparison



Smart SLMxxxx
802.1q VLANs (128/16)
Link Aggregation
Spanning Tree
Port Mirroring
IGMP Snooping
L2 priority - 802.1p
MAC-based ACL
Multicast/Broadcast/Unknown
Unicast Storm control
Radius Support
802.1 x
SNMP
Cable Analysis

Fully Managed SRWxxxx
VLAN - 802.1q (256)
Link Aggregation
Spanning Tree
Port Mirroring
IGMP Snooping
L2 priority - 802.1p
MAC-based ACL
Multicast/Broadcast/Unknown
Unicast Storm control
Radius Support
802.1 x
SNMP
Cable Analysis
Rate Limiting
L3 priority - DSCP/TOS
Rapid Spanning Tree
Telnet
SSH/SSL
Multiple Spanning Tree
Shaping
Flow-based Security
Flow-based QoS

Layer2+ Managed SFE2xxx/SGE2xx
VLAN - 802.1q (256)
Link Aggregation
Spanning Tree
Port Mirroring
IGMP Snooping
L2 priority - 802.1p
MAC-based ACL
Multicast/Broadcast/Unknown
Unicast Storm control
Radius Support
802.1 x
SNMP
Cable Analysis
Rate Limiting
L3 priority - DSCP/TOS
Rapid Spanning Tree
Telnet
SSH/SSL
Multiple Spanning Tree
Shaping
Flow-based Security
Flow-based QoS
Stacking
Static Layer 3
Power Redundancy - RPSU
Auto-provision
Auto-QoS
Dual Image
More Advanced Support
Options

Unmanaged Switches

Rack mount



SR224G

- (24) Port 10/100 + (2) 10/100/1000 Combo SFP
- Auto MDI/MDI-X
- Per Port LEDs
- Internal Power Supply
- Non-Blocking



SR224R

- (24) Port 10/100 "Compact"
- Auto MDI/MDI-X
- Per Port LEDs
- Internal Power Supply
- Non-Blocking
- Fanless



SR224

- (24) Port 10/100
- Auto MDI/MDI-X
- Per Port LEDs
- Internal Power Supply
- Non-Blocking



SR216

- (16) Port 10/100
- Auto MDI/MDI-X
- Per Port LEDs
- Internal Power Supply
- Non-Blocking



SR2024

- (24) Port 10/100/1000 w/ (2) Combo SFPs
- Auto MDI/MDI-X
- Per Port LEDs
- Internal Power Supply
- Non-Blocking



SR2024C (Compact version – 11")

- (24) Port 10/100/1000 w/ (2) Combo SFPs
- Auto MDI/MDI-X
- Per Port LEDs
- Internal Power Supply
- Non-Blocking



SR2016

- (16) Port 10/100/1000
- Auto MDI/MDI-X
- Per Port LEDs
- Internal Power Supply
- Non-Blocking

Desktop



SD205/SD208/SD216

- (5)/(8)/(16) Port 10/100
- Auto MDI/MDI-X
- Per Port LEDs
- External Power Supply
- Non-Blocking



SD2005/SD2008

- (5)/(8) Port 10/100/1000
- Auto MDI/MDI-X
- Per Port LEDs
- External Power Supply
- Non-Blocking

Fast Ethernet

Gigabit Ethernet

Smart Switches

Clustering



SLM248G4S / SLM248G4PS

- 48 Port FE Smart SW
- With or Without PoE
- Clustering



SLM224G4S

- 24 Port FE Smart SW
- Clustering

Rack mount



SLM248P

- 48 Port FE Smart SW w/ PoE
- Basic QoS & Security



SLM248G

- 48 Port FE Smart SW
- Basic QoS & Security



SLM224P

- 24 Port FE Smart SW w/ PoE



SLM224G

- 24 Port FE Smart SW
- Basic QoS & Security



SLM2048

- 48 Port GE Smart SW
- Basic QoS & Security



SLM2024

- 48 Port GE Smart SW
- Basic QoS & Security

Desktop



SLM2005/2008

- 5/8 port Smart SW
- PD Powered Option
- Basic QoS & Security

Fast Ethernet

Gigabit Ethernet

Fully Managed L2 Switches - SRW

Rack mount



- SRW248G4P Series**
- 48 Port Switch w/ PoE
 - Adv QoS, Mgmt, Security



- SRW248G4 Series**
- 48 Port Managed Switch
 - Adv QoS, Mgmt, Security



- SRW224G4P**
- 24 Port Switch w/ PoE
 - Adv QoS, Mgmt, Security



- SRW224G4**
- 24 Port Managed Switch
 - Adv QoS, Mgmt, Security



- SRW2048Series**
- 48 Port Managed Switch
 - Adv QoS, Mgmt, Security



- SRW2024P Series**
- 24 Port Managed Switch w/ PoE
 - Adv QoS, Mgmt, Security



- SRW2024 Series**
- 24 Port Managed Switch
 - Adv QoS, Mgmt, Security



- SRW2016 Series**
- 16 Port Managed Switch
 - Adv QoS, Mgmt, Security

Desktop



- SRW208P/MP Series**
- 8 Port Managed Switch w/PoE
 - Adv QoS, Mgmt, Security



- SRW208 Series**
- 8 Port Managed Switch
 - Adv QoS Mgmt, Security



- SRW2008P / MP**
- 8 Port Managed Switch w/PoE
 - Adv QoS, Mgmt, Security



- SRW2008**
- 8 Port Managed Switch
 - Adv QoS, Mgmt, Security

Fast Ethernet

Gigabit Ethernet

Layer 2+ Stackable Switches

Rack mount & Stacking



SFE2010P

- 48 Port FE with PoE
- Adv QoS, Mgmt, Security, RPSU



SFE2010

- 48Port FE
- Adv QoS, Mgmt, Security, RPSU



SFE2000P

- 24 Port FE with PoE
- Adv QoS, Mgmt, Security, RPSU



SFE2000

- 24 Port
- Adv QoS, Mgmt, Security, RPSU



SGE2010P

- 48 Port GE with PoE
- Adv QoS, Mgmt, Security, RPSU



SGE2010

- 48 Port GE
- Adv QoS, Mgmt, Security, RPSU



SGE2000P

- 24 Port GE with PoE
- Adv QoS, Mgmt, Security, RPSU



SGE2000

- 24 Port GE
- Adv QoS, Mgmt, Security, RPSU

Desktop



SFE1000P

- 8 port with PoE
- Adv QoS, Mgmt, Security
- Fanless

Fast Ethernet

Gigabit Ethernet

Routers

- VPN, SSL & IPSec available
=> Secure connections for branch to branch and remote worker
- Security: Firewall & DoS prevention, port filtering
- Trend Micro Option – SaaS, re-occurring revenue opportunity
- Easy installation and maintenance, setup wizard, SNMP, web interface, monitoring options,
- Wireless versions available, ideal for smaller setups
- Remote Worker support => WRV200/210 is also an ideal router for remote worker



Wired VPN Routers



RV042/RV082

- Dual WAN Ports
- Integrated SPI Firewall
- HW Accelerated VPN
- QuickVPN Support
- Trend Micro Email and Web filtering



RVL200

- (1) FE WAN + (4) FE LAN
- Integrated SPI Firewall
- SSL VPN Support
- IPSEC Branch Office Support
- Trend Micro Email and Web filtering



RVS4000

- (1) GigE WAN + (4) GigE LAN
- Integrated SPI Firewall + IPS/IDS
- IPsec VPN Support
- Trend Micro Email and Web filtering



Functionality / Performance



Wireless VPN Routers



WRVS4400N

- Draft N MIMO
- Based on RSV4000 Security Router
- SPI Firewall + IPS
- 5 User IPSEC VPN
- Gigabit WAN/LAN



WRV200

- 802.11g MIMO
- Support Up to 10 VPN Tunnels
- Omni-Directional Antenna – 1x2 MIMO
- Multiple SSID



WRV210

- 802.11g MIMO
- Support Up to 10 VPN Tunnels
- Omni-Directional Antenna – 1x2 MIMO
- Multiple SSID
- Dual PPPoE profile
- Higher memory footprint



Functionality / Performance

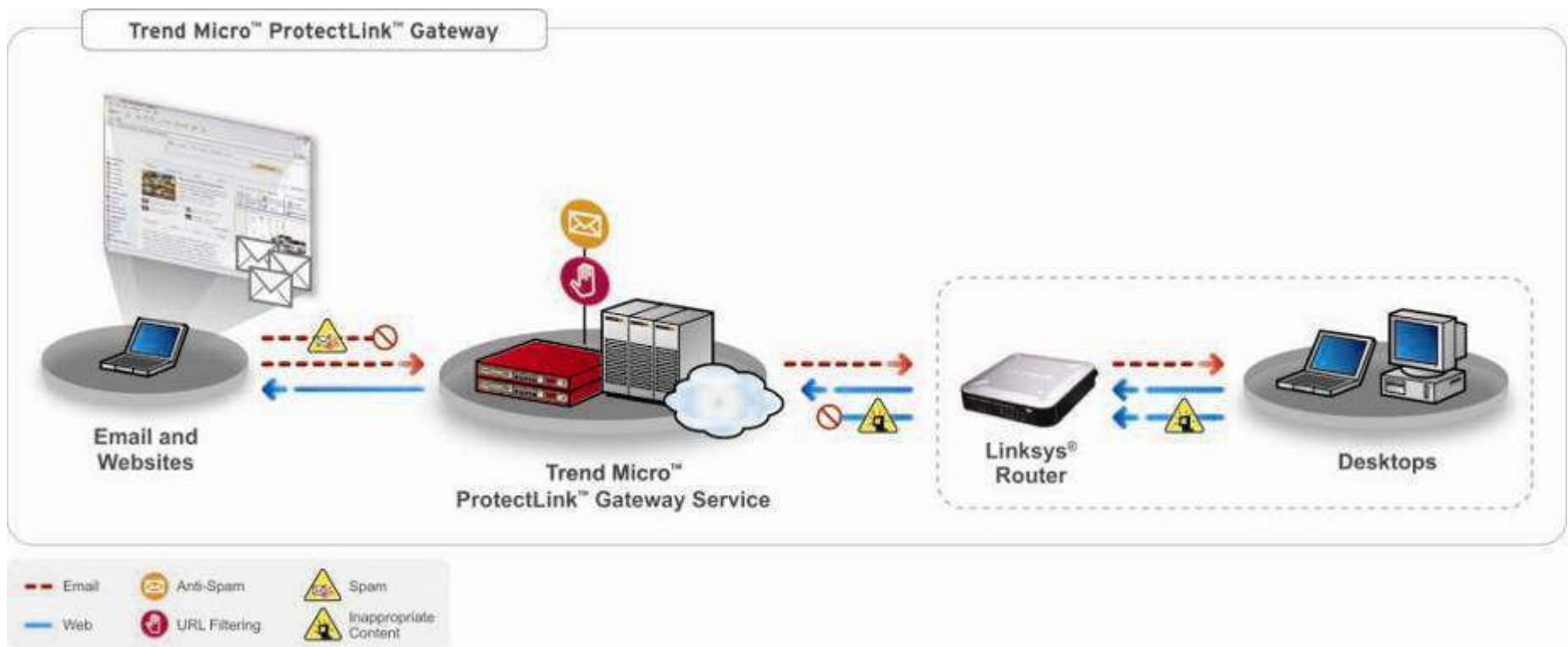


How ProtectLink Gateway works....

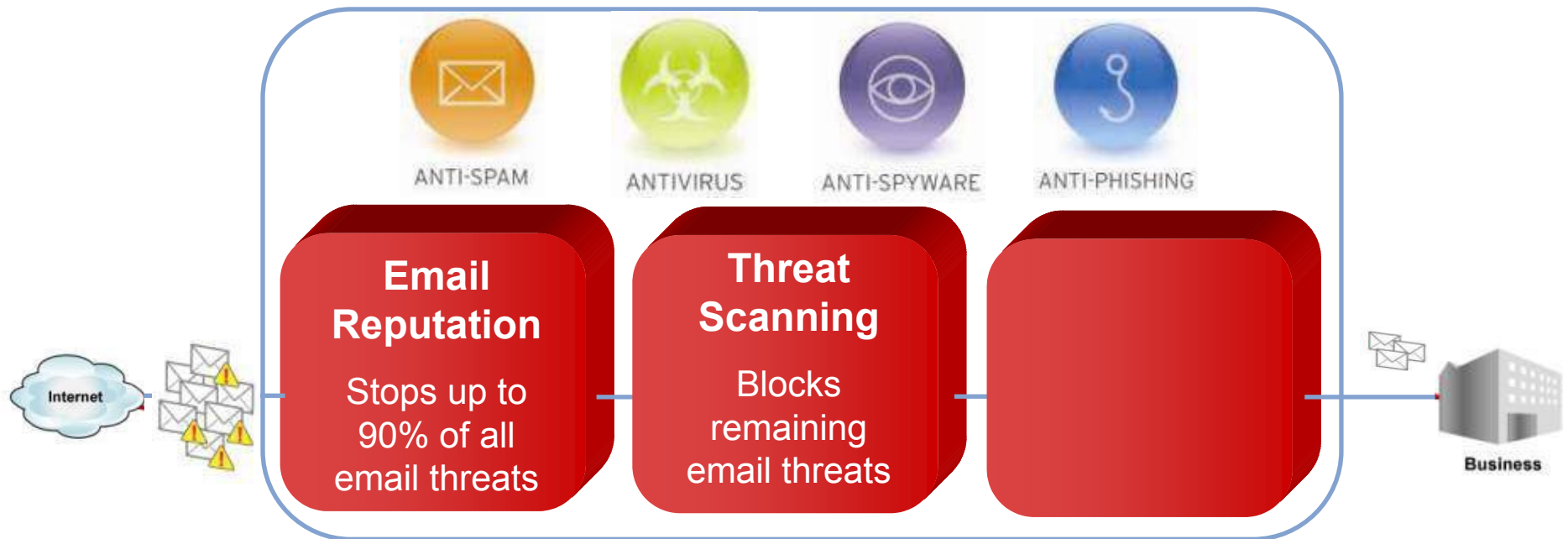
- **Trend Micro ProtectLink Gateway**

ProtectLink Gateway: Protects email and Web traffic at the gateway

Spam and URL Filtering with Web Reputation



ProtectLink – Gateway E-mail Feature



- Spam blocking “in the cloud”
- A hosted service for e-mail protection
- Multi-layered security protection blocking spam before it arrives at your inbox.

Business Access Points



- Business grade feature set, e.g. security
- Optional PoE and power supply
- Exterior AP (PoE only) with NEMA IP 53 rated housing (WAP200E)
- Multiple SSID's and SSID to VLAN mapping
- Management: WebUI, SNMP



Wireless Access Points



WAP200E

- Outdoor 802.11g
- Multiple BSSID
- Built-In Direction Antenna
- PoE Powered
- Multiple AP Modes
- Improved Weatherized Housing



WAP2000

- 802.11g MIMO
- Multiple BSSID QoS/VLAN Mapping
- Omni-Directional Antenna – 1x2 MIMO
- Multiple AP Mode
- PoE or DC Powered
- Metal Case With Dual Image



WAP4410N

- Draft N v2 MIMO
- Multiple BSSIDs
- HTTP redirect
- WDS
- WPS
- Security and QoS
- Gigabit PoE or DC



WAP200

- 802.11g MIMO
- Multiple BSSID QoS/VLAN Mapping
- Omni-Directional Antenna – 1x2 MIMO
- Multiple AP Mode
- PoE or DC Powered



Functionality / Performance



Video Surveillance

- IP Cameras – WiFi and wired
 - PTZ build in or external PT base
 - Surveillance Software
 - IO ports and Audio for value add applications
 - Standard Video Format allows max. flexibility for clients – from PC to Cell phone
 - Motion Detection and auto-recording before and after event
 - Management software (up to 16 cameras)
- 
- A screenshot of a surveillance software interface. It features a grid of camera feeds showing a retail store interior. The interface includes a sidebar on the left with a search bar and a list of camera names. At the bottom, there is a control bar with buttons for 'Live', 'Record', and 'Settings'. The 'Live' button is highlighted. The camera feeds show different angles of the store, including shelves and product displays.



Pan, Tilt and Zoom Cameras

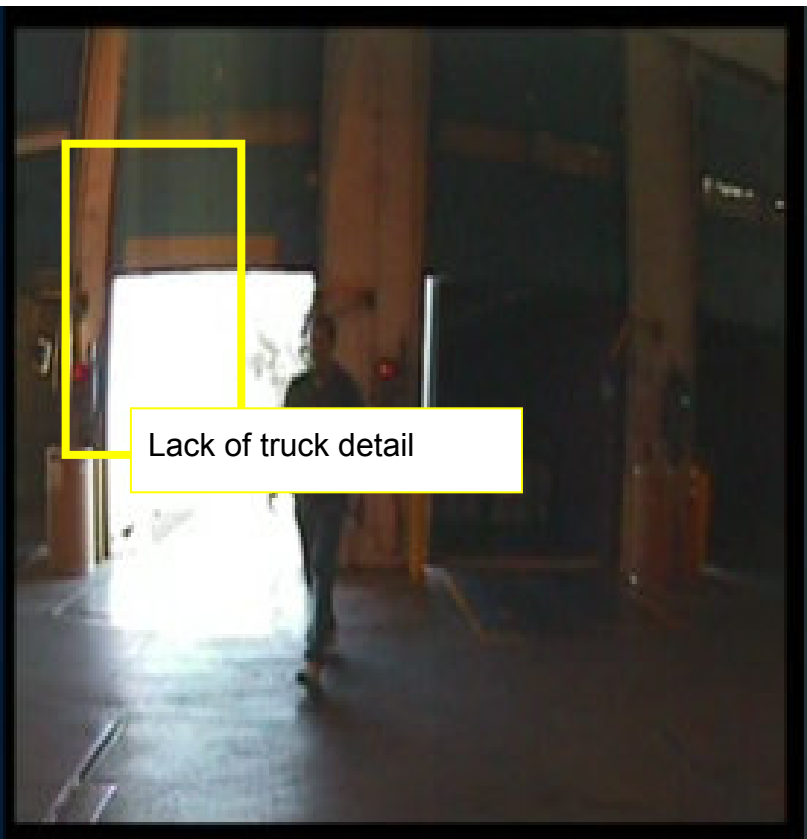


Functionality / Performance →

CMOS



CCD



NAS – Network Attached Storage

- ftp, CIFS, NFS – flexible and support for multiple client platforms
- Multiple RAID level – choose between redundancy and “disk tax” level
- Virtualization and MSDFS to meet bigger storage demands
- Diskless versions and pre-configured ready to go versions
- Integration into MS Domains for max. flexibility
- On disk encryption



Network Attached Storage

Rack mount



NSS4000

(4) Bay NAS Chassis
RPSU Option
RAID 0/1/1+Spare/5/5+Spare/10
File Encryption Option



NSS4100

(4) Bay NAS Chassis w/ 4x250GB HDs
RPSU Option
RAID 0/1/1+Spare/5/5+Spare/10
File Encryption Option



NSS6000

(4) Bay NAS Chassis
RPSU Option
RAID 0/1/1+Spare/5/5+Spare/10
File Encryption Option



NSS6100

(4) Bay NAS Chassis w/ 4x250GB HDs
RPSU Option
RAID 0/1/1+Spare/5/5+Spare/10
File Encryption Option

Desktop



NSS2000

(2) Bay NAS Chassis
RAID 0/1
File Encryption Option



NSS2050

(2) Bay NAS Chassis w/ 2x250 GB HDs
RAID 0/1
File Encryption Option



NSS3000

(4) Bay NAS Chassis
RAID 0/1/1+Spare/5/5+Spare/10
File Encryption Option



NSS3100

(4) Bay NAS Chassis w/ 2x500 GB HDs
RAID 0/1/1+Spare/5/5+Spare/10
File Encryption Option



Functionality / Performance



Why do we need backup software?

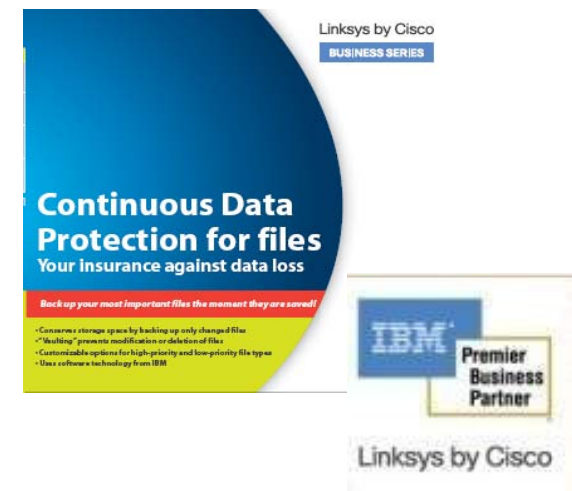
Every computer.....

- Runs anti-virus...
- Runs a fire-wall...
- Has our work-critical documents...
- Has our life-critical pictures, email, media.

Every computer...

But virtually none run backup...

- Less than 1% backup.
- More than 1 billion PC's alive.
- More than 170 million new each year.
- Majority (93%) of corporate data now lives on "the edge".
- Most computers are laptops.
- Compliance risk.
- End-user data value is now very high (business and consumer)



But virtually none run backup...

Cisco Small Business VoIP solutions

	Analog Telephone Adapters and Gateways	SPA9000 Voice System (formerly LVS2.0)	SPA IP Phones
Business Size	Up to 8 users	Up to 16 users	1- n (Hosted)
Integrated Services	Voice and Basic call control (end point) <i>VoIP Lines</i>	Voice, Business Call control, Voicemail, AA <i>Basic IP PBX PSTN, ISDN</i>	Voice, Basic and Business Call Control (end point) <i>VoIP Lines IP Centrex endpoint</i>
Call Control	SPA VoIP (SIP)	SPA VoIP (SIP)	SPA VoIP (SIP)
Platform	 SPA ATAs (SPA, PAP, WRP)	 SPA9000 SPA400	 SPA IP Phones (SPA900 Series)

Cisco Unified Communications for Small and Medium Businesses

	Smart Business Communications System	Unified CM Express	Unified CM Business Edition
Business Size	Up to 64 users	30 – 250 users	100+ users
Integrated Services	Voice, messaging, video, data PSTN, FXS Basic VPN, firewall	Voice, messaging, video, data PSTN, FXS VPN, firewall	Voice, messaging, mobility, video Advanced UC applications
Call Control	Unified CM Express	Unified CM Express	Unified CM
Platform			
	Unified 500 Series	Integrated Services Routers	MCS 7828

SBTG Telephone Adapter Family

	Model	FXS Ports	FXO Ports	Router	Ethernet Ports
	PAP2T	2	0	No	1 10BaseT
	SPA2102	2	0	Yes	2 100BaseT
	SPA3102	1	1	Yes	2 100BaseT
	SPA8000	8	0	No	1 100BaseT
	WRP400	2	0	Yes	4 100BaseT

Cisco SPA900 SIP IP Phones

Small Business Pro Series

Basic IP Phones



SPA901

1-line SIP Phone
No Display



SPA921

1-line SIP Phone
B&W HiRes Display



SPA941

4-line SIP Phone
B&W HiRes Display

Business IP Phones



SPA922

1-line SIP Phone
B&W HiRes Display
Backlit support



SPA942

4-line SIP Phone
B&W HiRes Display
Backlit support



SPA962

6-line SIP Phone
HiRes Color Display
Supports SPA932

- 1 Ethernet Port (10 Mbps)
 - 4 Softkeys*
 - HD Speakerphone*
 - 2.5mm Headset connector*
 - POE via POES5
- * Not available in SPA901

- 2 Ethernet Ports (100 Mbps)
- POE (802.3af)
- 4 Softkeys
- FD Speakerphone with AEC
- 2.5mm Headset connector
- Multiple Languages
- DL Background Picture
- SPA962 – RSS Web
- LDAP Corp Directory
- Enhanced Security

Common Features

- Wireless-G via WBP54G
- MB100 Wall Mount kit
- Cisco SPA Voice
- 1 Personal Directory (100)
- Call Logs (60 each) - Made, answered and missed
- Visual VM Message Waiting indicator
- Secure Remote Provisioning
- Third Party Application Server Support

SPA525G Deployment options

NEW



 Cisco logo and product name place on bezel will change

Cisco SPA9000 Voice System Components

IP PBX



SPA9000

- 1 to 16 Voice Users
- 2 FXS ports
- SIP Proxy
- SIP App Server
- SIP Media Server

IP Phones



SPA900 SIP IP Phones

- All SPA900 IP SIP Phone Pro Series are supported

PSTN Gateway and Voice Mail Server



SPA400

- 4 FXO port PSTN gateway
- 32 accounts Voice Mail Server for SPA9000

ISDN Gateway



Mediatrix® 4400 Series*

- All Mediatrix® 4400 ISDN BRI Gateways are supported

Connectivity Accessories



PA100, POES5, WBP54G, MB100

- Power Adapter
- POE (802.3af) Splitter
- Wireless Client
- Wall Mount kit for phones



Configuration and Management Applications

Cisco SPA9000 Configuration Wizard
AMDOCS® Jacobs Rimell® QuickStart® SIP UE



WIP310 Key Selling Points

***Deliver Rich
Unwired
Communication
Experience!***



Market Leading SIP Implementation

- Proven Market Leadership and Technology Expertise
- Millions of Deployed Units Using the Same SIP Stack
- Comprehensive Interoperability with Third Party Call Control Platforms

Easy to Setup and Use with Convenience of Mobile Handset

- WPS (WiFi Protected Setup)
- PC Wizard (for WiFi Connection)
- Phone Menu

WiFi Network Finder and Multi-Network Association

- Quick Access to View Available Network
- Configurable Auto Connect to Stored Network
- Not Available in Competing Products

Secure and Robust Mass Provisioning

- Field Proven with multiple provisioning options (TFTP, HTTP & HTTPS)
- Easy to Provision and Manage by Service Providers and VARs

Connected Office Portfolio

Products & Solutions for Any Business Need or Budget

Applications



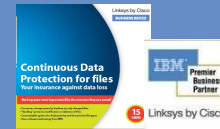
Facilities
Management



Video
Surveillance



Storage Back-
up/Archiving

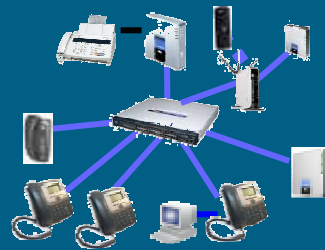


Desktop
Backup & Restore



Hosted Security
SaaS

Solutions



Cisco SPA 9000 Voice System



Endpoints



IP Phones



Metro
Ethernet



Video



Analog Voice
Gateways



VoIP
Accessories

Infrastructure Products



Routing



Managed
Switches



Unmanaged
Switches



Smart
Switches



Wireless

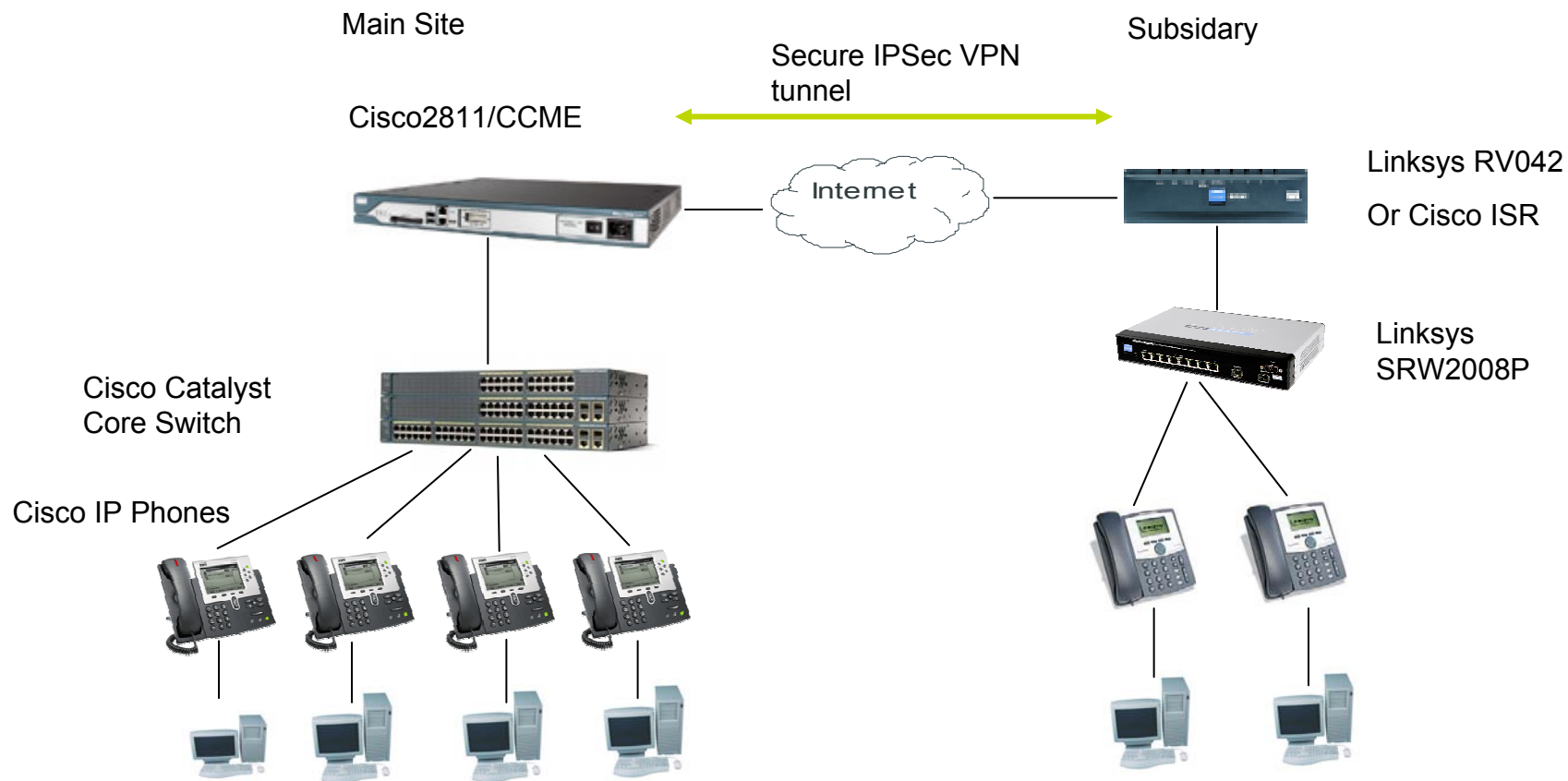


Security

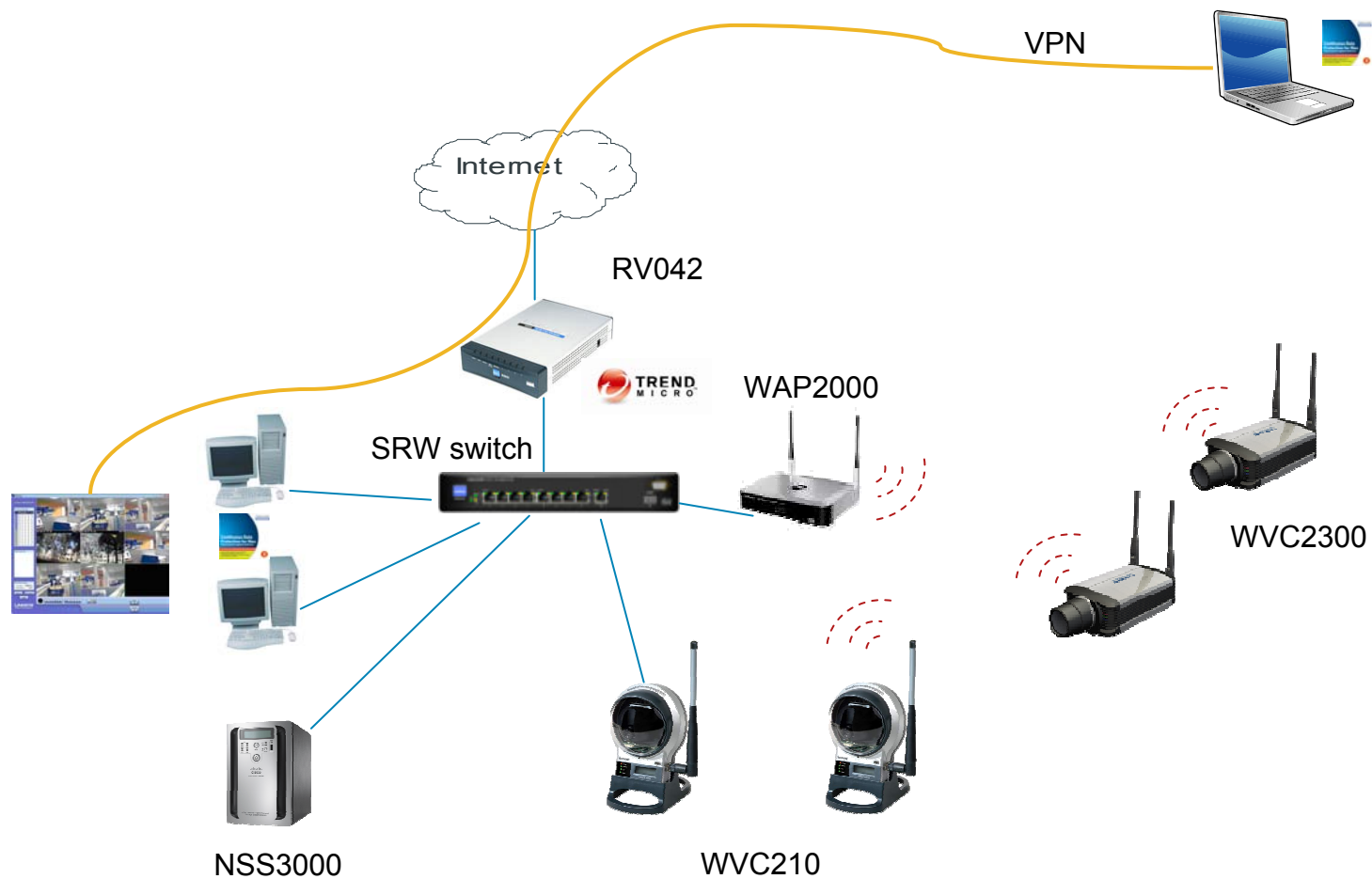


Storage

Deployment Example



Deployment Example

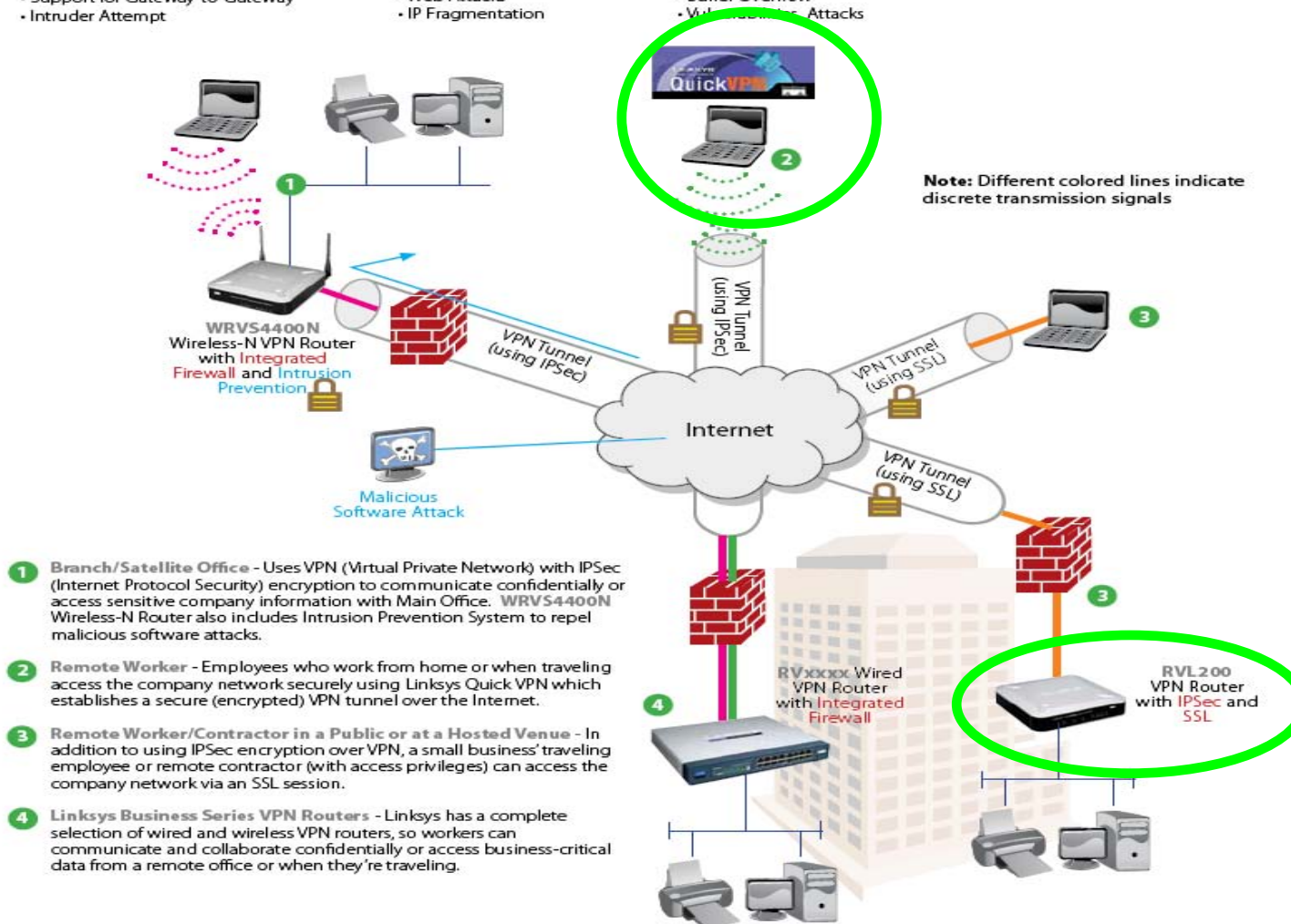


Deployment Example

Remote Access with Security Solution

Key Features:

- IPSec and SSL VPN
- Wireless Option
- Support for Gateway-to-Gateway
- Intruder Attempt
- DoS/DDoS
- Worm Attacks
- Web Attacks
- IP Fragmentation
- Trojan Horse/Back Door
- Port Scan
- Buffer Overflow
- Vulnerability Attacks



Resources

- Портал решений для малого и среднего бизнеса

<http://www.cisco.com/smb>

- Украинская часть Cisco.com

<http://www.cisco.ua>

- Cisco Small Business

<http://www.cisco.com/go/smallbiz>

- Портал-сообщество по Cisco Small Business

<https://www.myciscocommunity.com/community/smallbizsupport>

- Ресурсный центр по Cisco Small Business

<https://www.myciscocommunity.com/docs/DOC-1375>

Вопросы и ответы



