

Full Service Branch


**SE Manager
Cisco Korea**

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- **Full Service Branch**
- **Full Service Branch**
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- **FSB**
- **Full Service Branch**
- **Summary**



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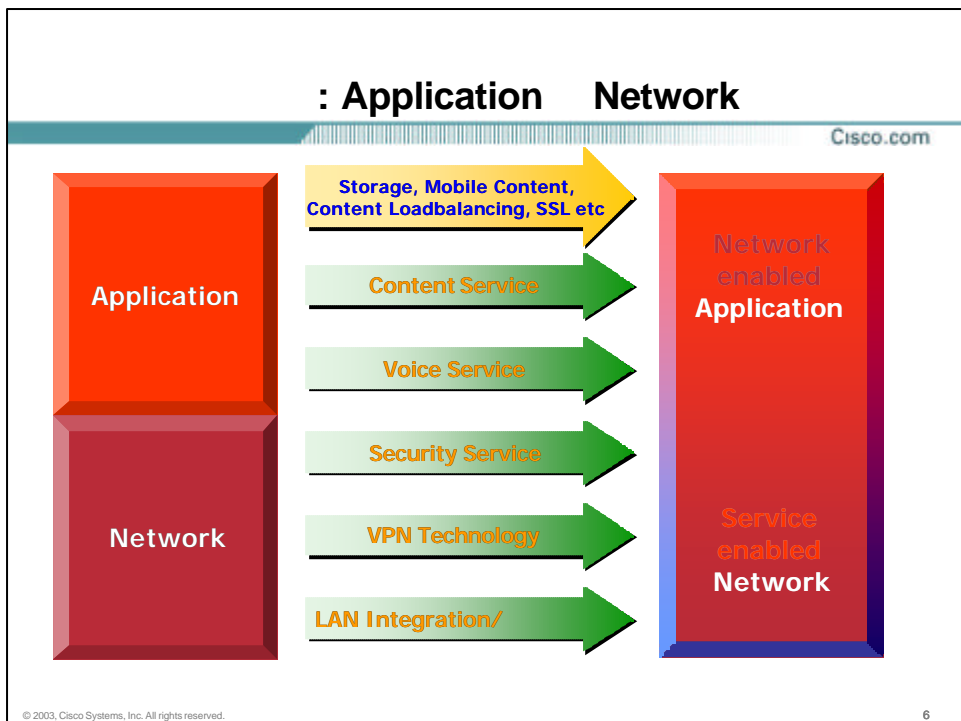
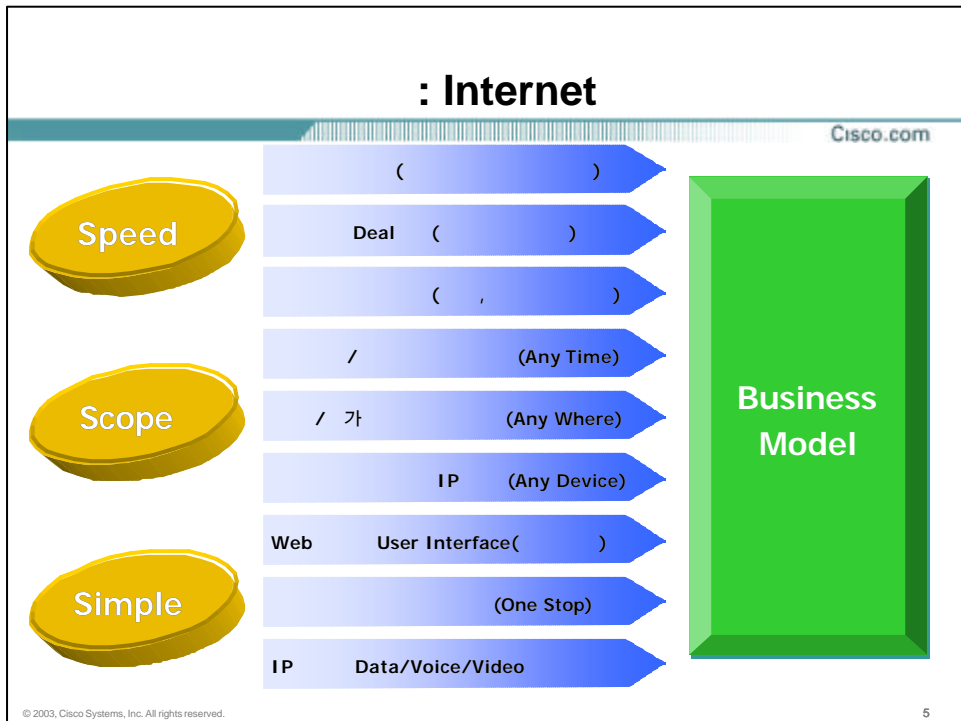
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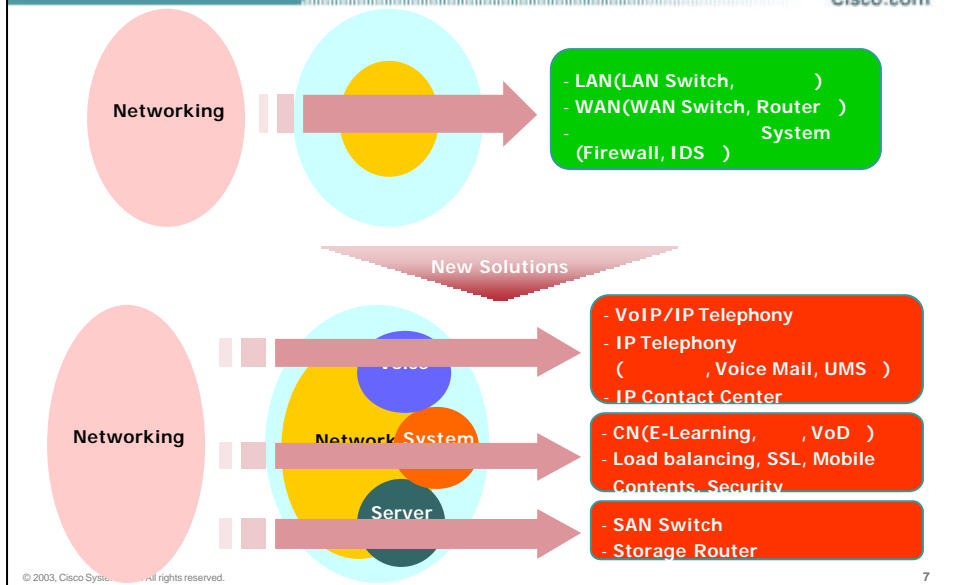
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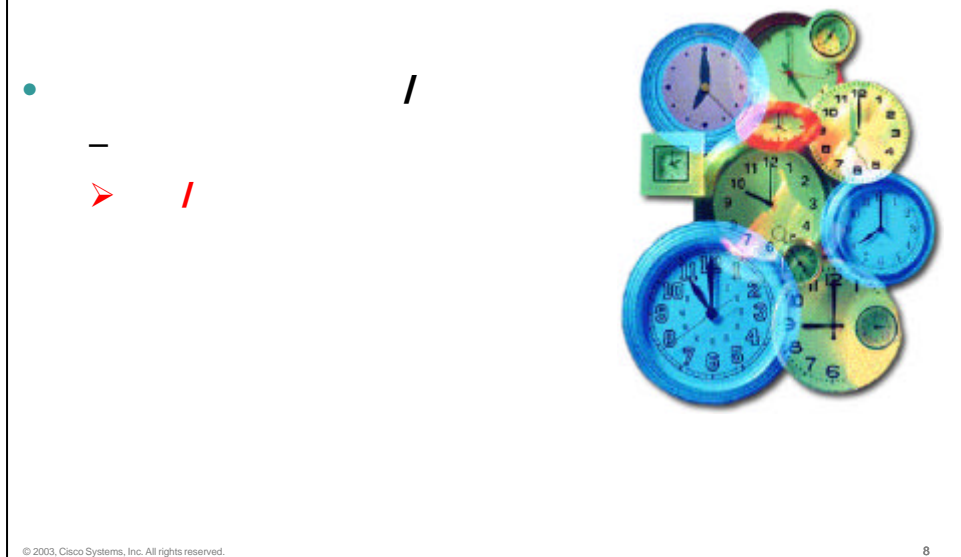
Network :

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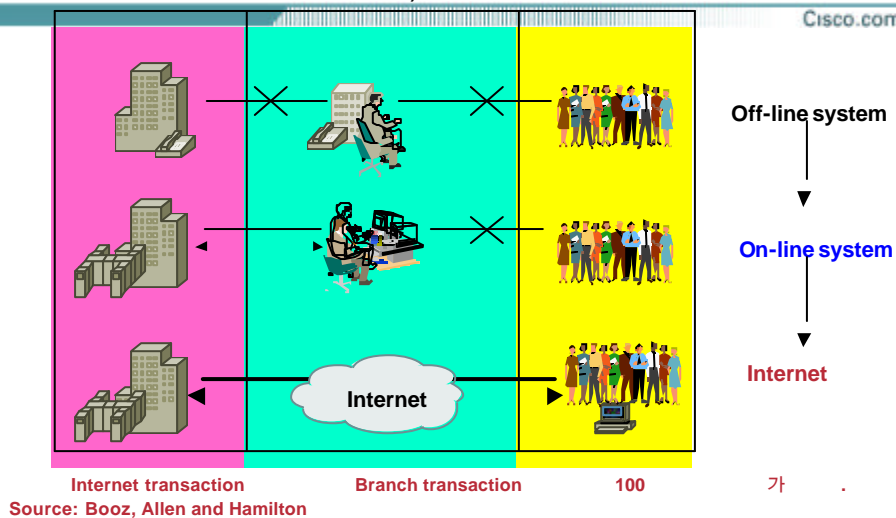
- Sales Office
- Service Center
- Market Place
- Wealth Center

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Internet

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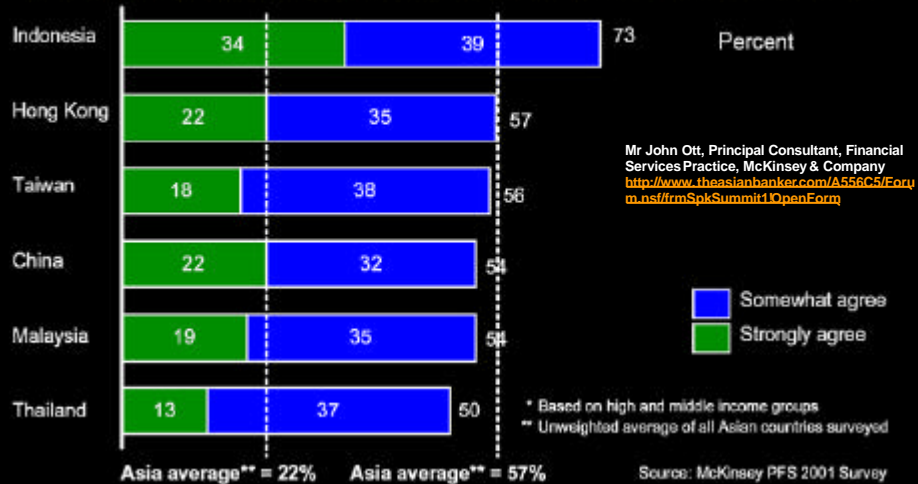
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“ automated tellers 34.4% ”
Source: Retail Banking Research

FACE-TO-FACE INTERACTION WILL BE KEY IN INITIAL DISTRIBUTION

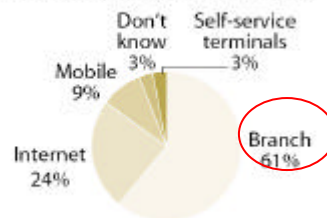
"I prefer dealing with a live person at a branch or on phone rather than a machine"



- Firms see branches as the centre of a multi-channel future
- 73% of European banks believe the Internet has had **little or no impact on branch distribution**.
- 61% believe branches will continue to **dominate a multi-channel future**. The Internet will play **second fiddle**.

Source: Forrester Research
 WholeView TechStrategy Research, March 2002, Reinventing Branch Banking

1-2 "Which channel will be the primary retail banking interface in 2007?"



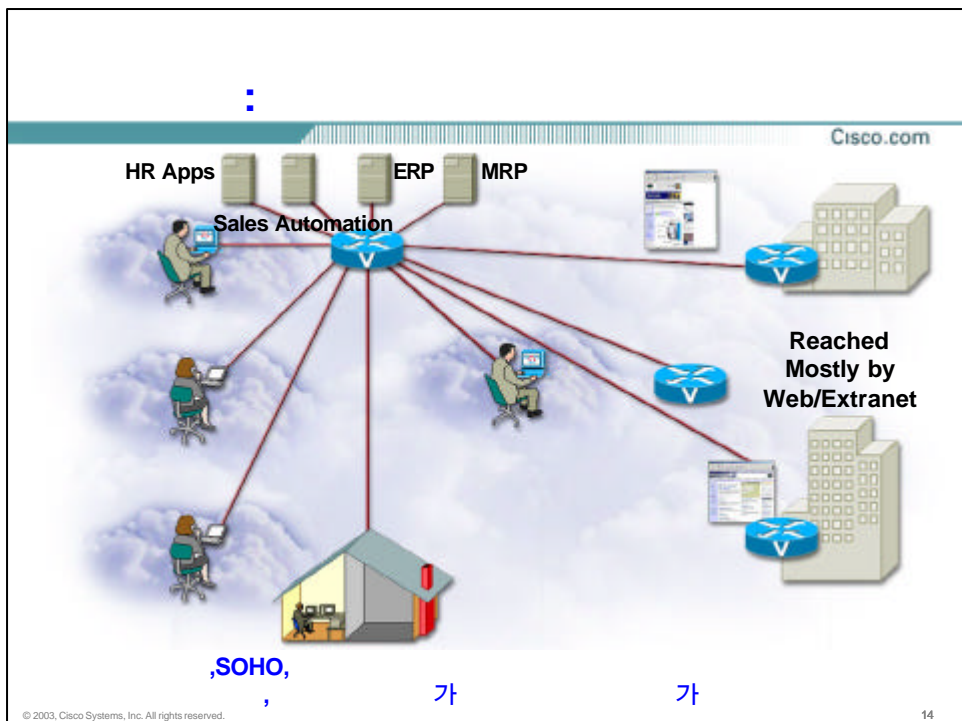
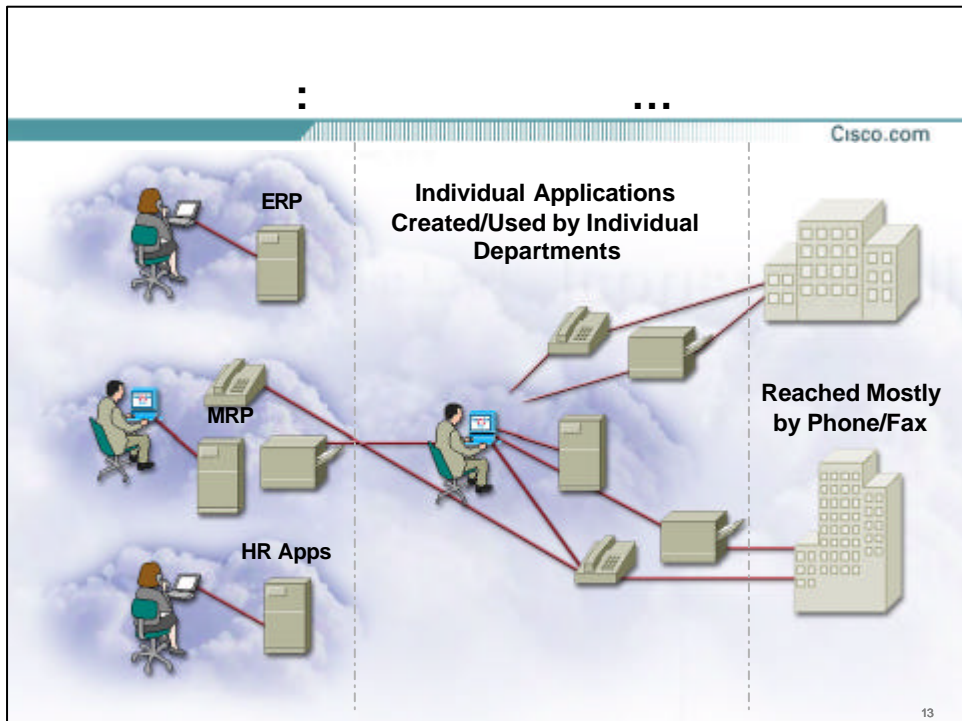
Base: 33 European banks

" American Express

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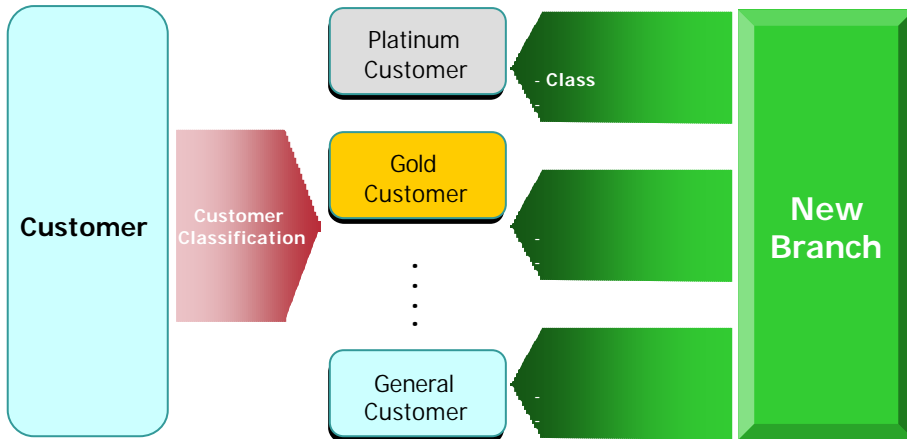
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Bill Moran
 Vice President of Business Development for Global Financial Advice
 American Express Financial Advisors

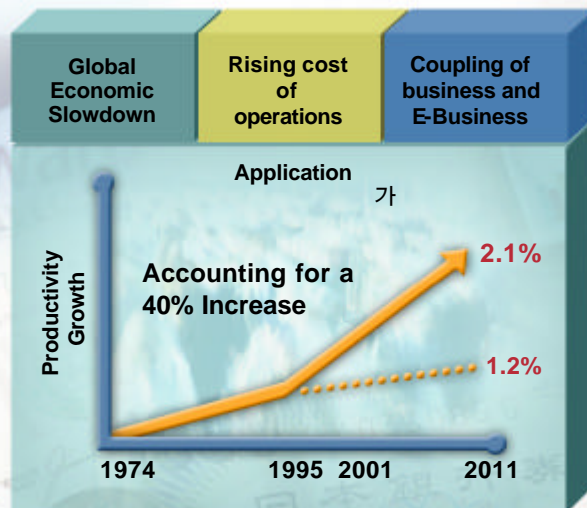


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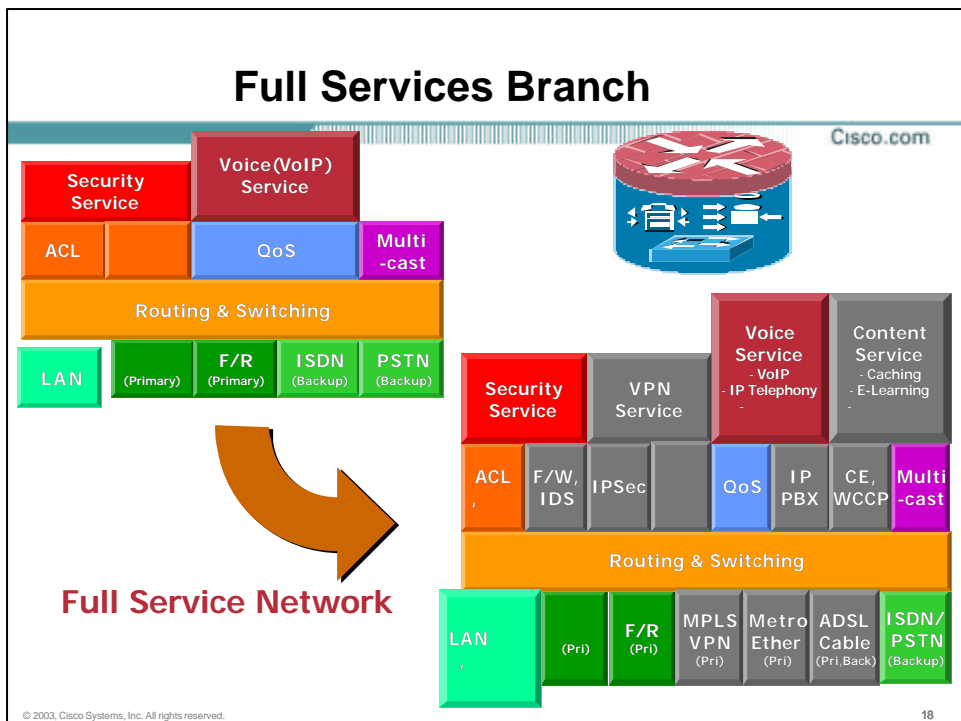
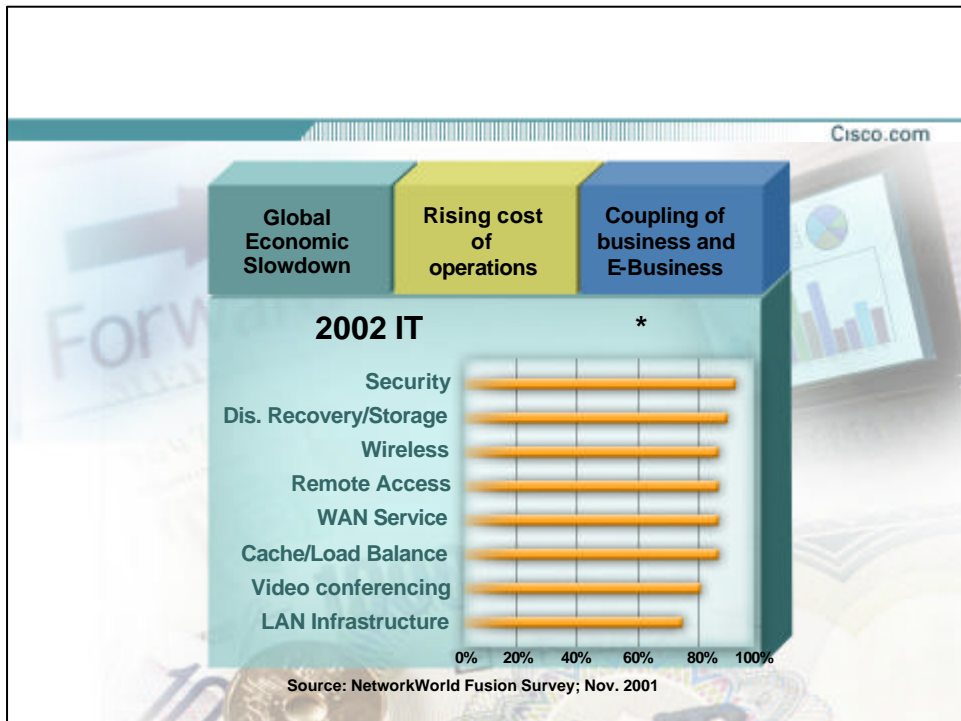
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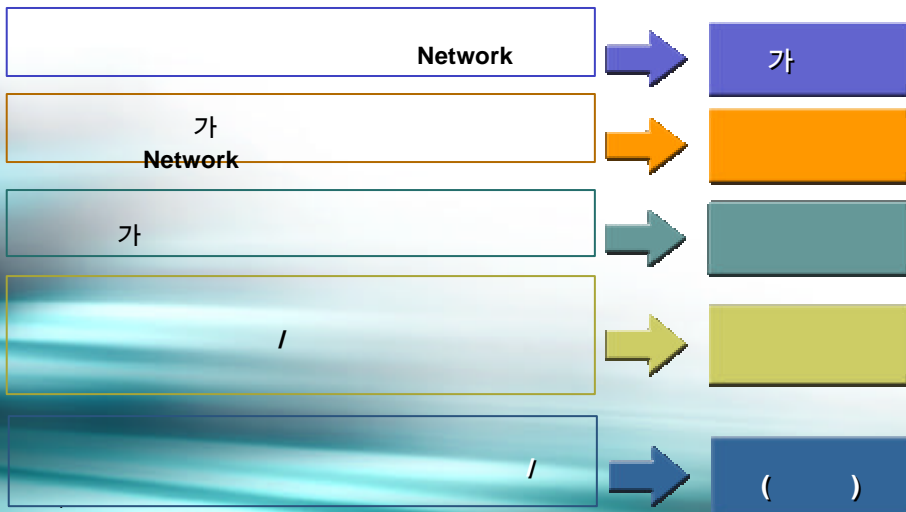
* Same or increased spending over 2001



- Full Service Branch



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To Protect E-Business Investments

- Mobility and IP communications increase productivity
- Innovative IP applications enhance agility
- Networking technologies enable businesses to distribute applications throughout the network
- Networked security protects business information and assets
- Converged infrastructure enables IP telephony, telecommuting, and video for cost reduction
- Diversified IP communications reduce risk
- Distributed architecture provides resilience, not just availability
- Network intelligence ensures adaptability and flexibility, while reducing complexity

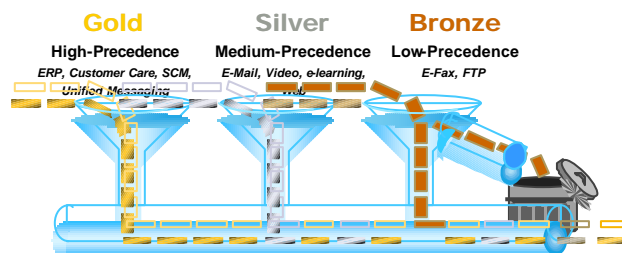
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: QoS (Quality of Service)

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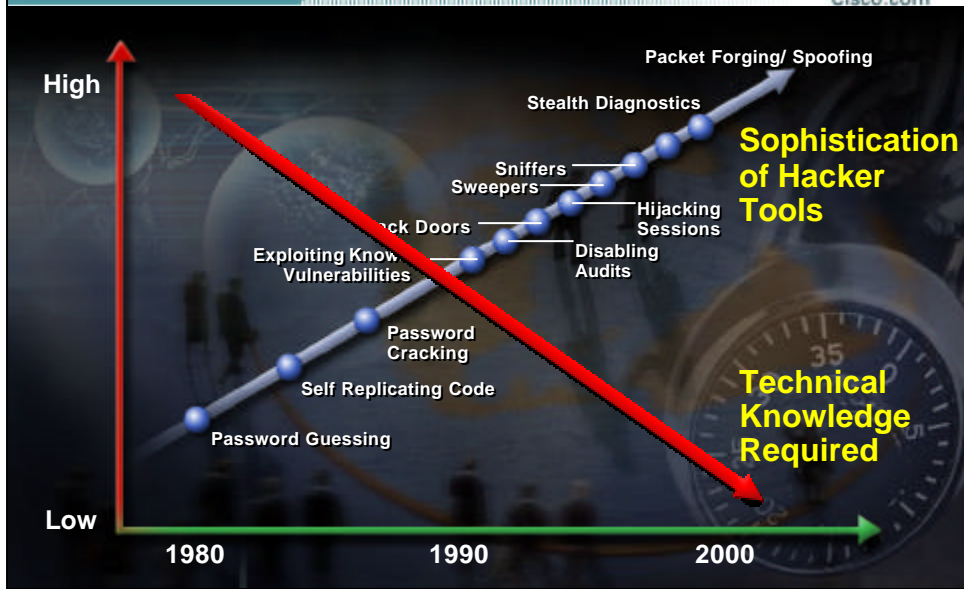


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: E-business

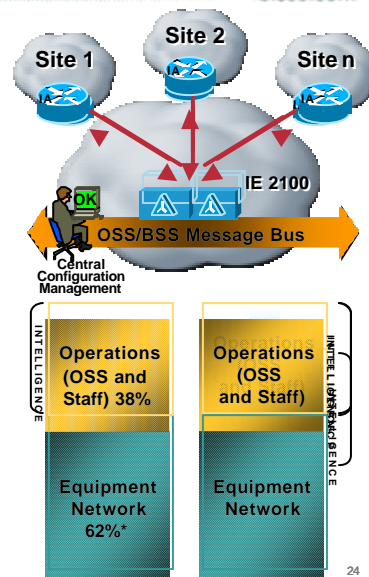
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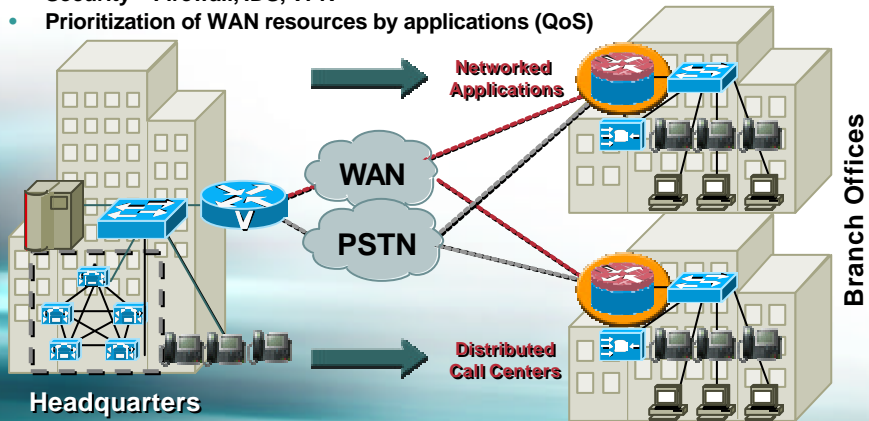
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- Network infrastructure
- application intelligent network service
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- Converged Voice, Video, and Data
- Security—Firewall, IDS, VPN
- Prioritization of WAN resources by applications (QoS)



**Cisco IOS Provides Intelligent Services
QoS, Security, Availability**

- **Full Service Branch**

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— **FSB**

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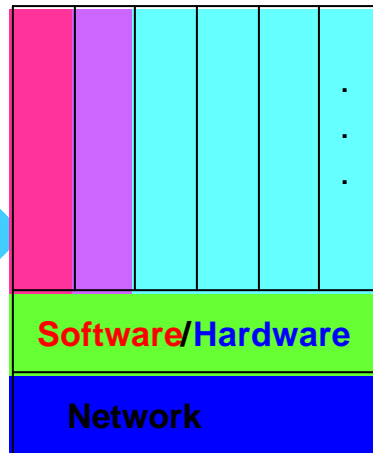
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Network



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Cisco IOS Intelligent

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Cisco IOS Software Delivers Network Control



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- Input policing
- Traffic classification
- Multiple queues
- Outbound policing
- Scheduling
- Strict Priority Queuing

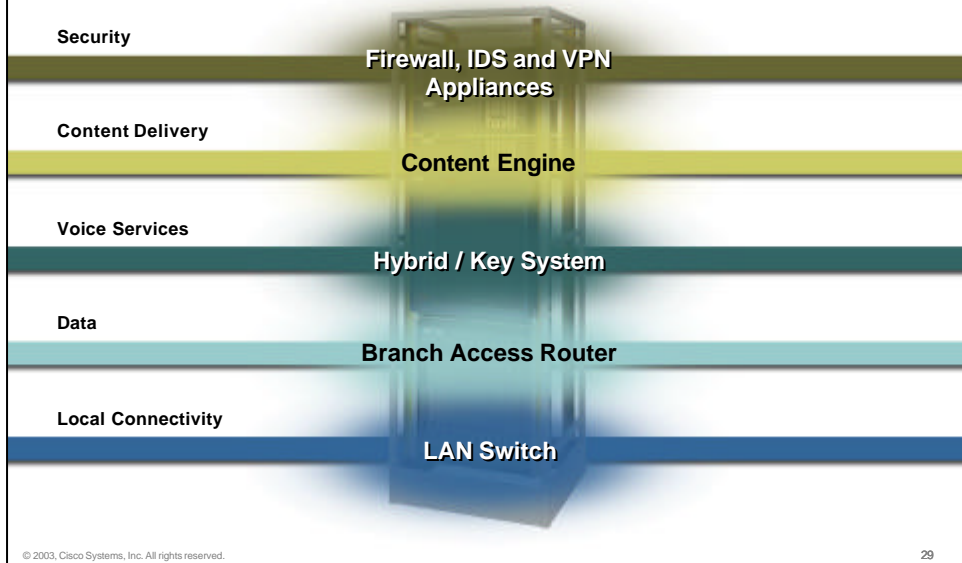
- Survivable Remote Site Telephony (SRST)
- Redundant Power Supply (optional)
- Online insertion and removal (3745 only)
- HSRP automatic failover
- Redundant Link
- Dial-backup

- Stateful Inspection Firewall
- Intrusion Detection
- VPN with hardware-assist encryption
- Easy VPN
- IEEE 802.1Q VLAN
- Access Control Lists

- Easy VPN
- SNAP
- Autoprovisioning
- Cluster Management Suite
- IE2100
- CiscoWorks (Small to Large Networks)
- Config Express
- Partner Tools

/ Network :

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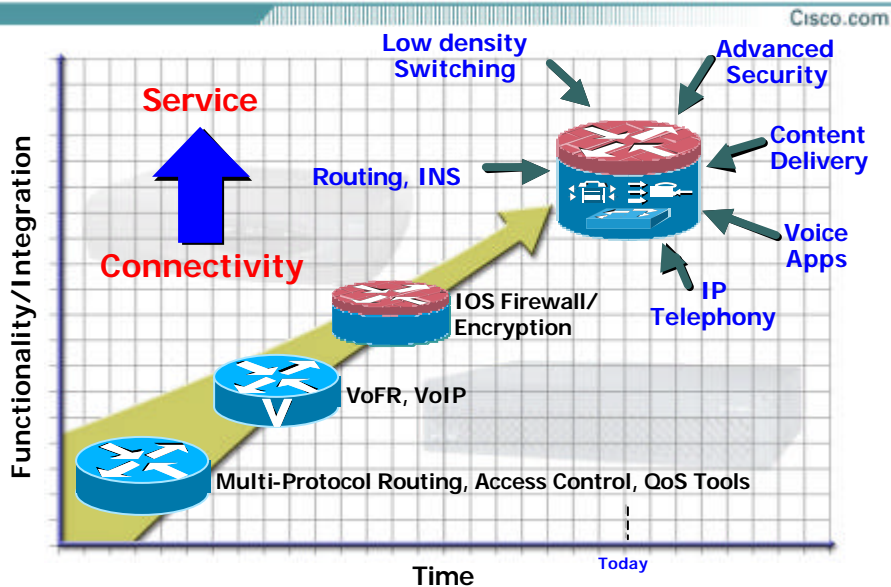
- Organization Strategies
- Feature Requirements
- Management / Support
- Space limitations
- Flexibility
- Capital Costs

Branch Requirement	Router	Appliance / Server
LAN Connectivity	x	
WAN Connectivity	x	
Firewall	x	x
IDS	x	x
VPN	x	x
Content Delivery	x	x
Voice Gateway	x	
IP Telephony	x	x
Voice Messaging		x

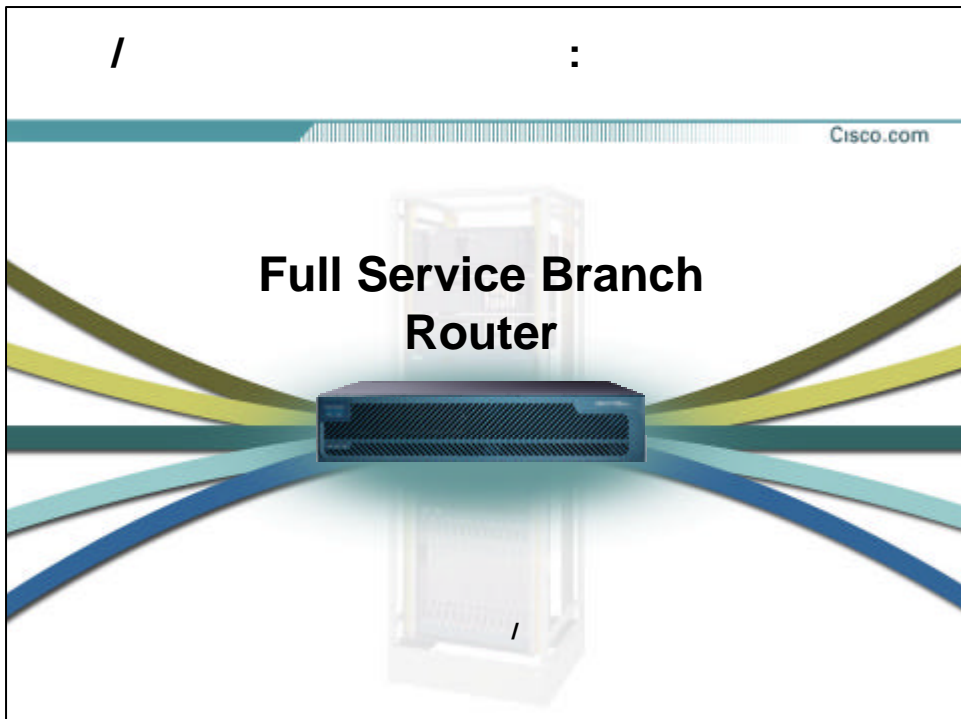
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Router

– Multi-Service Platform



Full Service Branch Router



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Quality of Service



Future

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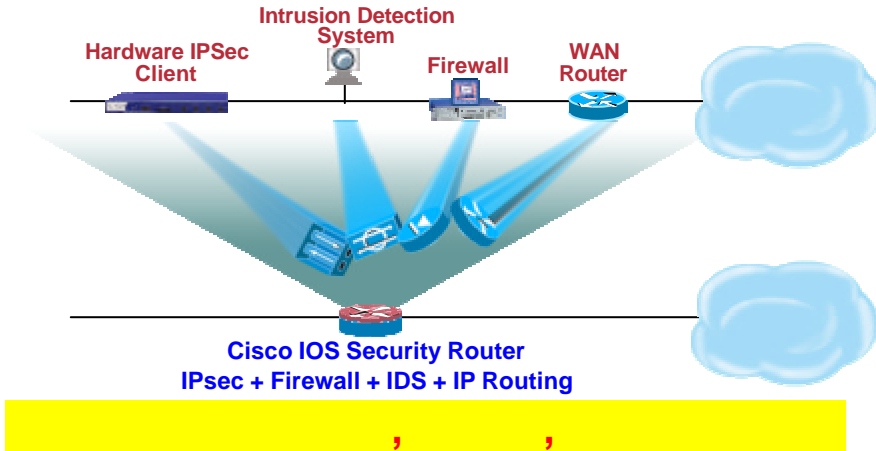
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Branch Security

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- IPSec VPN, Inline Stateful Firewall, IDS and IP Routing
- Eases management burden, reduces cost of ownership



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VPN

New!

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- Excellent mid-range VPN aggregation
- Supports new Advanced Encryption Standard (AES) plus compression
- 5 to 10 times faster than previous solutions
- Two form factors: EP11 and HP 11 (over 90 Mbps 3DES/AES)
- AIM installs on motherboard: Slots open for Voice, LAN, WAN modules
- Supports Cisco 2691, 3725, 3745, 3660
- Standards supported:
 - IPSec/IKE: RFCs 2401-2410, 2411, 2451
- Planned:
 - FIPS level 2, FIPS-192 AES, EAL, and ICSA Certified
 - AES support of 128,192, and 256 Keys; 128K at release
- Requires IOS Release 12.2(13)T

AIM-VPN/EP11 AIM-VPN/HP11



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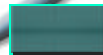
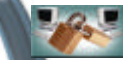
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Local AAA Server

Intranet Web Servers

HQ

WAN

HQ AAA Server

Internet



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Content Engine Network



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- **Integrated Solution, Compact Footprint, Cisco IOS Managed**

- *Content Acceleration*
- *E-communications*
- *E-learning*
- *Content Filtering*
- *File Distribution*



NM-CE-BP-20G-K9 (20G drive)
NM-CE-BP-40G-K9 (40G drive)
NM-CE-BP-SCSI-K9 (no disk,
external SCSI expansion)

- Advanced Transparent Caching / Content Filtering
- Radius, LDAP, TACACS+ and Native NTLM Authentication
- Full support for key streaming technologies – MPEG, Windows Media, RealNetworks, QuickTime
- Fully compatible with CE devices, CDM
- Supported on IOS Release 12.2(11)YT and 12.2(13)T
 - Cisco 2600, 3600, 3700 Series Routers
 - 256MB, upgradeable to 512MB
 - External compact flash
 - Internal and External 10/100 ports
 - External Storage: SA-6 and 1RU Reference Sell (HP)

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CE-NM 가

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“Having the content engine in the same box as the router...means fewer boxes out in the field, fewer power cords; it is a cleaner, simpler design to install and manage.”

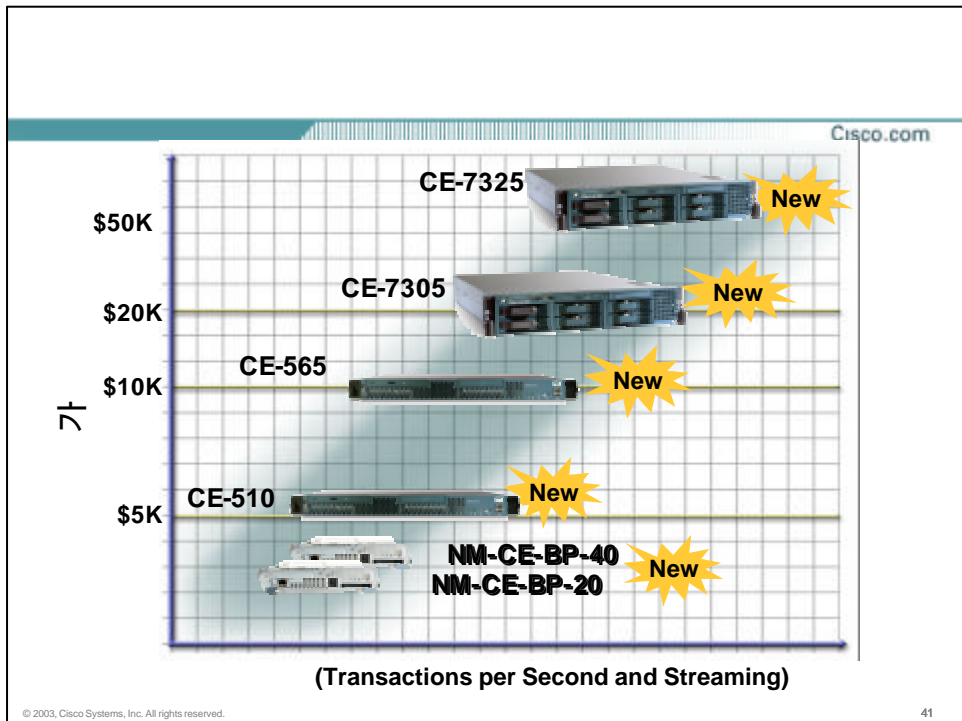
...
“We like the interface—it has a similar look and feel to a router; you can telnet to it, execute IOS commands, all in a familiar way.”

...
“From a budgeting and purchasing perspective, it's easier to justify adding a module to a router than it is to get approval for a standalone devices”

Jim Runnels, Senior Network Manager, SBC

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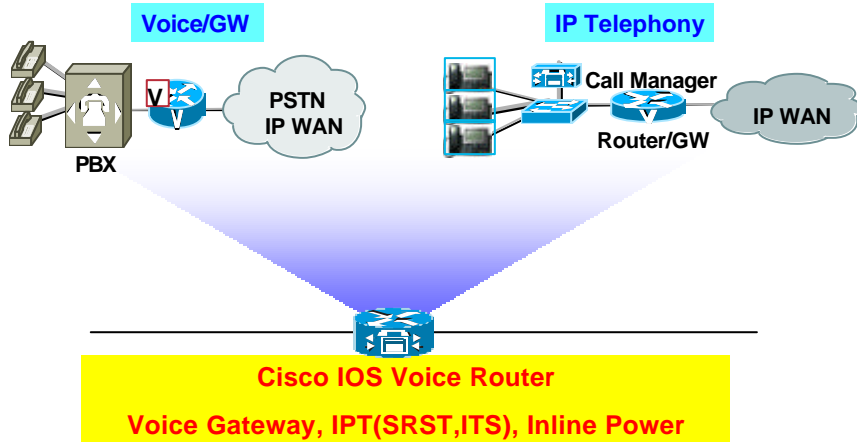
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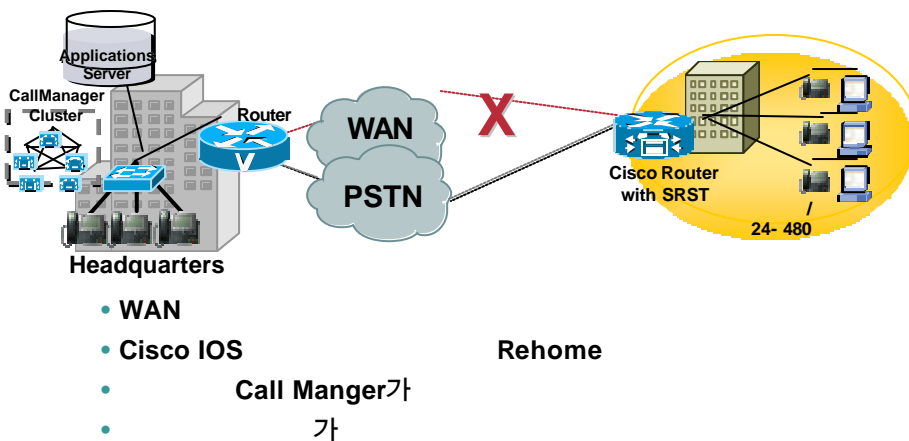
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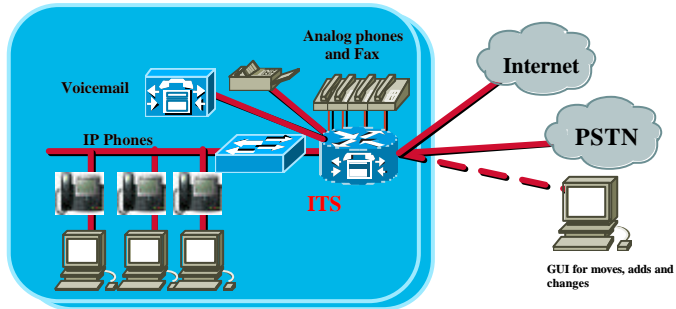
- Eases management burden, reduces cost of ownership



SRST(Survivable Remote Site Telephony)

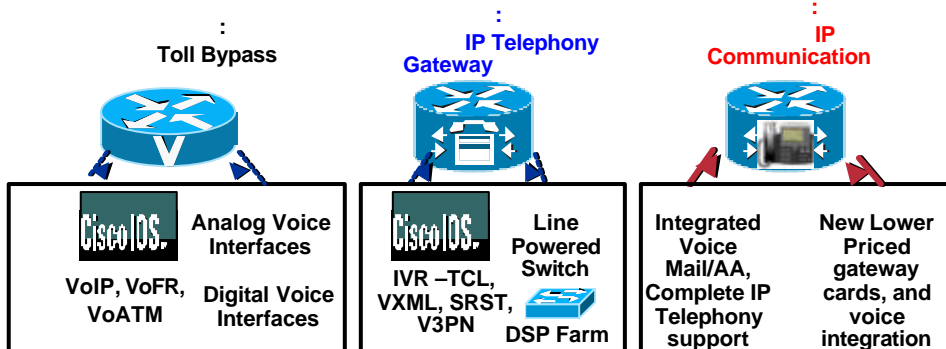


IOS Telephony Service (ITS)



- / IP
-
- Call Processing IOS
- (T1 / E1 / PRI / BRI / Analog FXO/ H.323 / SIP)

: All in One Box



- The future for Voice in the router is big!
- New hardware will drive lower price points and higher densities.

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**Remote Branch
16-port NM-16ESW-PWR**



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Gigabit Ethernet —NM-1GE



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- **GigE branch and Metro Area connectivity**
- **Low-cost, high speed switch uplinks and campus connectivity**
- **Up to 350 Mbps performance!**
- Supports copper and optical GBICs, including CWDM
- Inter-VLAN Routing and Bridging
- 802.1q and ISL trunking
- Hierarchical QoS
- Supports Jumbo Frames
- Supports Cisco 2691, 3660, 3725 and 3745



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/ EtherSwitch

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36-port EtherSwitch HDSM

- For Cisco 3700 Series Routers
- 36 ports 10/100 Ethernet Switching
- High Density Service Module (HDSM), requires 2 NM slots
- Optional inline power and GE ports
- Requires Cisco IOS 12.2(8)T1 or greater
- Requires Cisco IP Plus image

16-port EtherSwitch NM

- For Cisco 2600, 3600 and 3700 Series Routers
- 16 ports 10/100 Ethernet Switching
- Network Module
- Optional inline power and GE ports
- Requires Cisco IOS 12.2(2)XT or greater
- Requires Cisco IP Plus image



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Intelligent Network Services

Availability,
QoS,
Security,
Manageability

Advanced Security
Secure Connectivity, Protecting
Electronic Assets

Content Delivery
Optimize Network Performance, Deliver
Executive Communications and E-Learning
Content to Branch Employees

Voice Applications
IP Communications, Providing Enhanced
Productivity, Lower Costs

Integrated
Management
for Voice,
Data and
Video
Traffic
Decrease
Total Cost of
Ownership

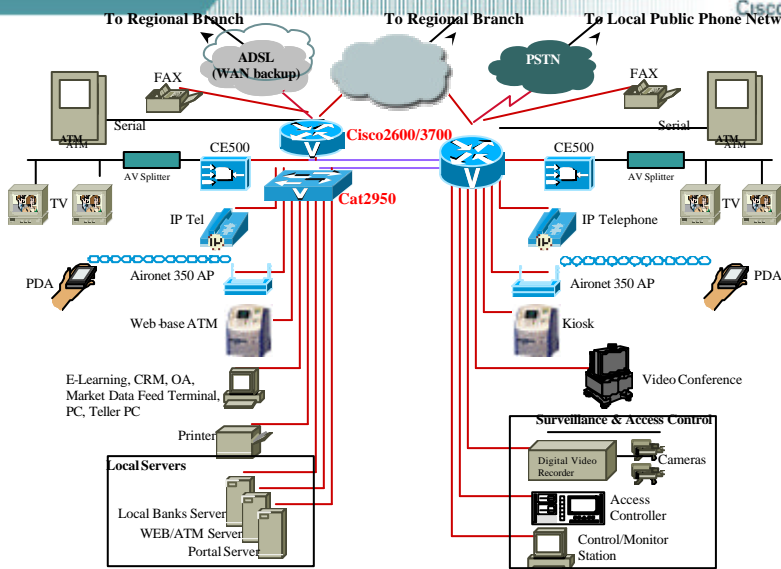
Integrated Network Solutions

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- **Full Service Branch Cisco**

 Security

 Content


 Voice

 Low density Switching

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Cisco Access Router

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The diagram is a matrix with 'Performance and Service' on the vertical axis and five market segments on the horizontal axis: Teleworker/SOHO, SMB/Small Branch, Enterprise Branch, Large Branch, and Enterprise HQ. The background is divided into two main regions: 'FLEXIBILITY' on the left and 'PERFORMANCE' on the right. Various Cisco router models are plotted along a diagonal path from bottom-left to top-right, representing increasing performance and service capabilities.

Market Segment	Router Models
Teleworker/SOHO	Cisco SOHO
SMB/Small Branch	Cisco 800
Enterprise Branch	Cisco 1700
Enterprise Branch	Cisco 1760
Enterprise Branch	Cisco 2600XM/2691
Large Branch	Cisco 3700
Enterprise HQ	Cisco 7x00

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Cisco 1721

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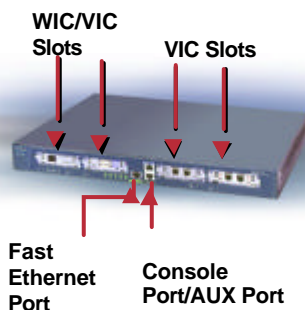
Affordable Secure Data Access for Enterprise Small Branch Offices and Small/Medium Sized Businesses



- **Flexibility and Investment Protection**
 - Modular design with two WAN slots
 - Wide Array of Add-on WAN Interfaces
- **Security**
 - VPN IPSec 3DES up to T1/E1
 - Cisco IOS Firewall, IDS
 - Cisco Easy VPN for simplified deployment
- **Business-Class DSL**
 - ADSL and G.SHDSL support
- **Manageability**
 - SNMP manageable
 - CiscoWorks 2000

Cisco 1760 Modular Access Router

Cisco.com



- **19" Rack-mount Form Factor**
- **4-slot Modular Chassis**
- **One Auto-Sensing 10/100 Port**
- **Flexibility and Investment Protection**
 - Modular Design
 - Field Upgradeable WAN/Voice Interface Cards
 - Wide Array of WAN including ADSL, G.SHDSL
- **Multiservice Integration**
 - Analog and Digital Voice Support
- **Security**
 - Wire-speed VPN Access with IPSec 3DES
 - Cisco IOS Firewall, IDS, and Easy VPN Remote
- **QoS**
 - Traffic Prioritization
- **Manageability**
 - CiscoWorks 2000 and CiscoView
 - SNMP Manageable

Cisco 2600XM Modular Access Routers

Cisco.com

- **Up to 33% more performance**
 - **Double the default Flash, added memory capacity, increased DRAM**
 - **Fast Ethernet on all models**
 - **Mainline Cisco IOS supported**
 - **Future EoS for original 2600s**
- For the Same Price as the 2600!*
- 
- **Flexibility, Scalability and Performance**
Network Module architecture for expansion and network services—over 70 shared Network Modules, WICs, VICs and AIMs
Integrated switching for ease of management and deployment
 - **Variety of WAN/LAN Options**
ATM, Switching, PRI, Analog/Digital Voice, Modems
 - **Security**
Firewall, Intrusion Detection
VPN Multiple T1/E1 Access using IPsec 3 DES
 - **QoS**
Traffic Prioritization and Bandwidth Management
Enhanced Quality-of-service over DSL
 - **Simplified Management**
SNMP Manageability, CiscoWorks, Cisco View


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Cisco 2691 Modular Access Router

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The Highest Density and Performing 2600 Series Platform/ Bridging the gap from 2600XM to the 3600

- **Nearly double the performance of the 2650XM**
 - **Additional WIC, additional AIM**
 - **Supports up to 15 Mbps of secure IMIX traffic**
- 
- **Flexibility, Scalability and Performance**
High Density support with 1 Network Module, 3 WICs and 2 AIMs—over 70 modules and cards shared with 1700, 3600 and 3700 Series
Configured with 2 10/100 Fast Ethernet ports
Integrated switching for ease of management and deployment
 - **Variety of WAN/LAN Options**
HSSI, ATM, Switching, PRI, Analog/Digital Voice, Modems
 - **Security**
Firewall, Intrusion Detection
VPN (15 Mbps throughput IMIX) Access using IPsec 3 DES
 - **QoS**
Traffic Prioritization & Bandwidth Management
Enhanced Quality-of-service over DSL
 - **Simplified Management**
SNMP Manageability, CiscoWorks, Cisco View

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Cisco 3725/3745 Access Routers

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Highest Performance Branch Office Routers

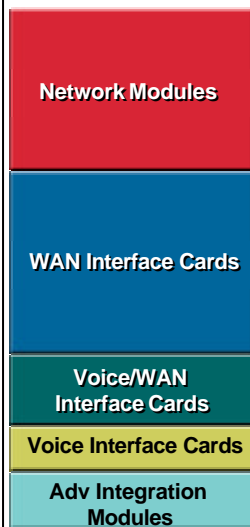


	3725	3745
10/100 FE ports	2	2
WIC Slots	3	3
AIM Slots	2	2
NM/HDSM Slots	2/1	4/2
HDSM Slots	1	2
Performance - kpps	100	225
Optional RPS	External	Internal
Optional Phone Power	Internal	Internal
Minimum Cisco IOS	12.2(8)T	12.2(8)T
Price	\$8,500	\$12,000

Integrated Advanced Services: Reduced Total Cost of Ownership

Cisco 2600/3600/3700 Interface Summary

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- Content Engine **NEW!**
- Gigabit Ethernet (2651, 3600, 3700) **NEW!**
- T3/E3 (2650, 2691, 3600, 3700) **NEW!**
- Etherswitch
- ISDN BRI
- Low and high-density digital voice/fax
- FE combo (2691 only)
- Serial Connectivity (4A/S, 8A/S, 4T, 16A, 32A)
- Channelized E1/T1 & ISDN PRI
- ATM (4/8 port T1/E1 ATM IMA, DS3/E3)
- Analog modem (8 and 16-ports)
- ADSL access/VoDSL, G.SHDSL
- Serial connectivity (1 & 2 port)
- Async/Sync (2 port)
- ISDN BRI (S/T or U I/F)
- 56/64 Kbps 4-wire CSU/DSU
- T1/FT1 CSU/DSU
- Analog modem (1 & 2 port)
- T1/E1 Multiflex VWIC, D&I (1/2 ports)
- 2 port voice (FXS, E&M, FXO, DID, BRI (S/T-TE))
- 4-port voice (FXS, DID)
- Digital Voice/Fax
- ATM Access, VoATM
- Compression
- Encryption (AIM-VPN/EPII, AIM-VPN/HPII) **NEW!**

- **Summary**



Cisco Full Service Branch

