Bisync IP

CISCO SYSTEMS

Cisco SNA-to-IP Evolution

SNA Centric

- SNASw
- DSPU
- DLUR
- FRADs
- CSNA

SNA/APPN

IP Transport

- DLSw+
- SNASw
- STUN
- ALPS
- CSNA
- CIP/CPA

SNA
IP
SNA

Cisco IOS Technology

Availability · Scalability · Security · Management

IP Client

- TN3270 Server
- SNASw
- CIP/CPA

SNA
IP

IP Centric

- Cat 6K w/OSA-E
- CIP
- GigE Switching
- ALPS
- SNASw w/EE

IP

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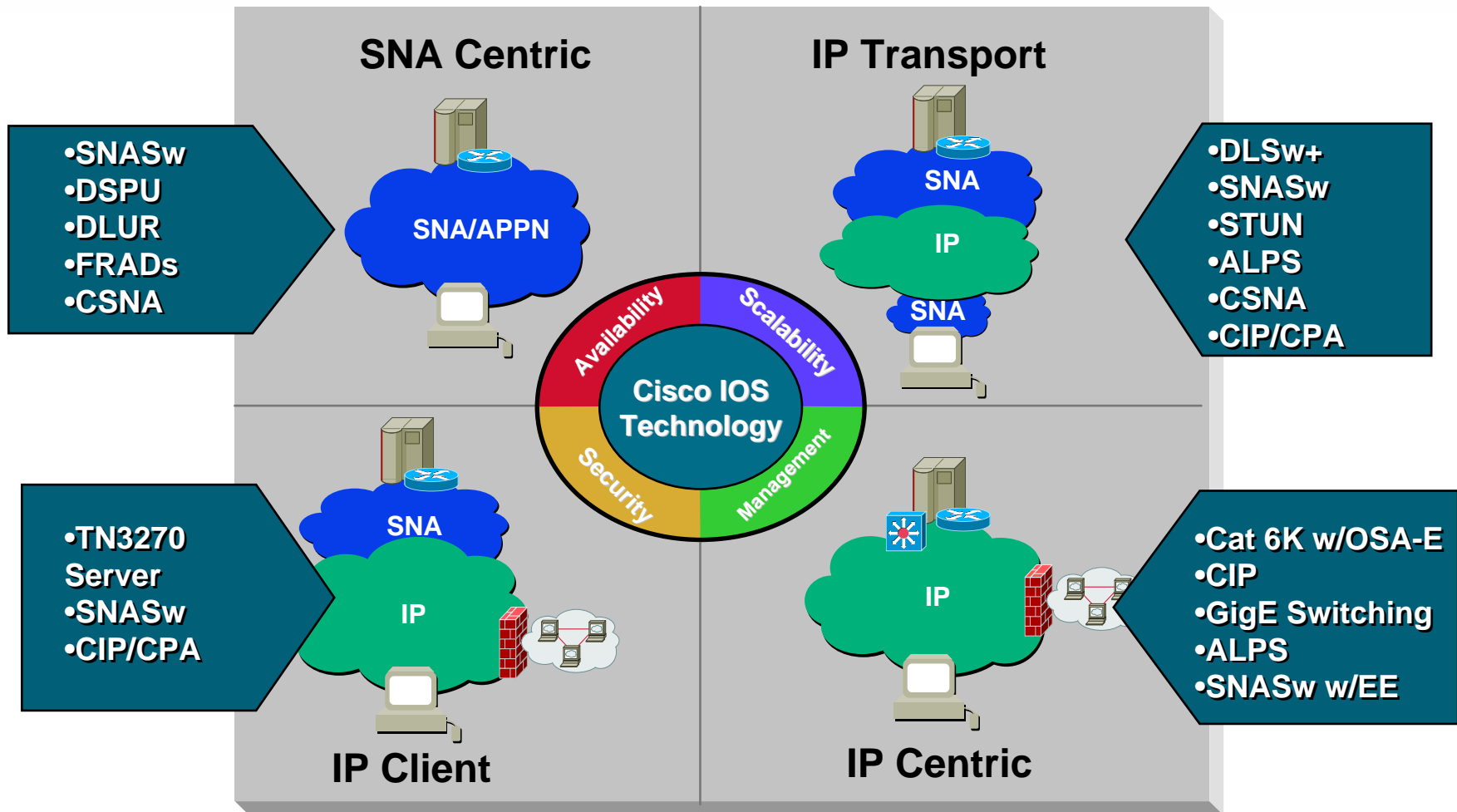
Empowering the Enterprise

- **New World networks will empower the enterprise if:**

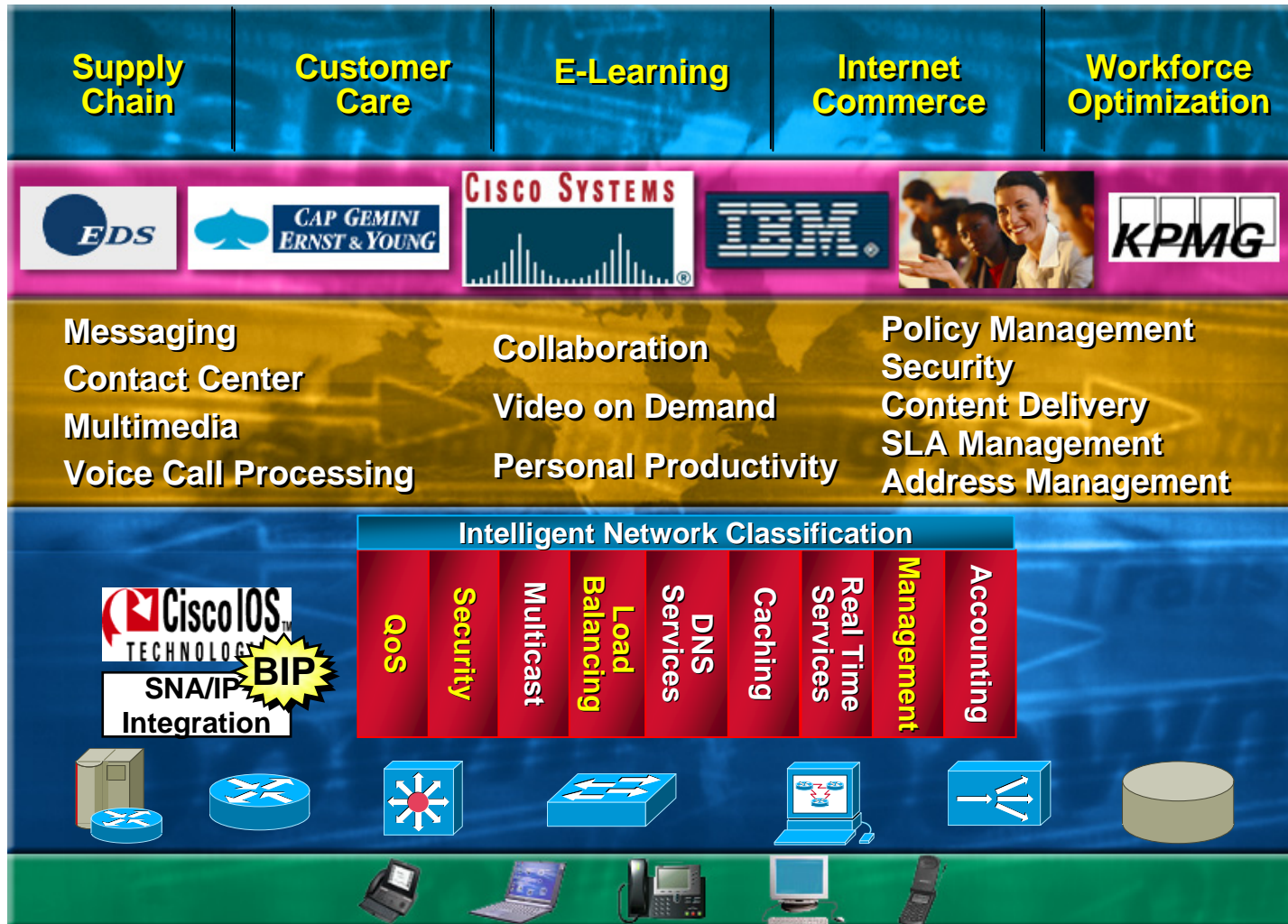 - Legacy equipment and protocols can be leveraged

  - A smooth migration path to New World applications and technologies is provided

  - The New World network delivers outstanding network services

New World Network

- IP-based applications on multiple server platforms

- Media-independent, high-speed campus switching

- Consolidated data/voice/video

- High-speed WAN connectivity

- "Thin" clients

Cisco AVVID Architecture

| Supply Chain | Customer Care | E-Learning | Internet Commerce | Workforce Optimization |

Internet Business Integration

EDS · CAP GEMINI ERNST & YOUNG · CISCO SYSTEMS · IBM · KPMG

Internet Middleware Layer

Messaging
Contact Center
Multimedia
Voice Call Processing

Collaboration
Video on Demand
Personal Productivity

Policy Management
Security
Content Delivery
SLA Management
Address Management

Intelligent Network Services

Cisco IOS TECHNOLOGY
SNA/IP Integration
BIP

Intelligent Network Classification

QoS · Security · Multicast · Load Balancing · DNS Services · Caching · Real Time Services · Management · Accounting

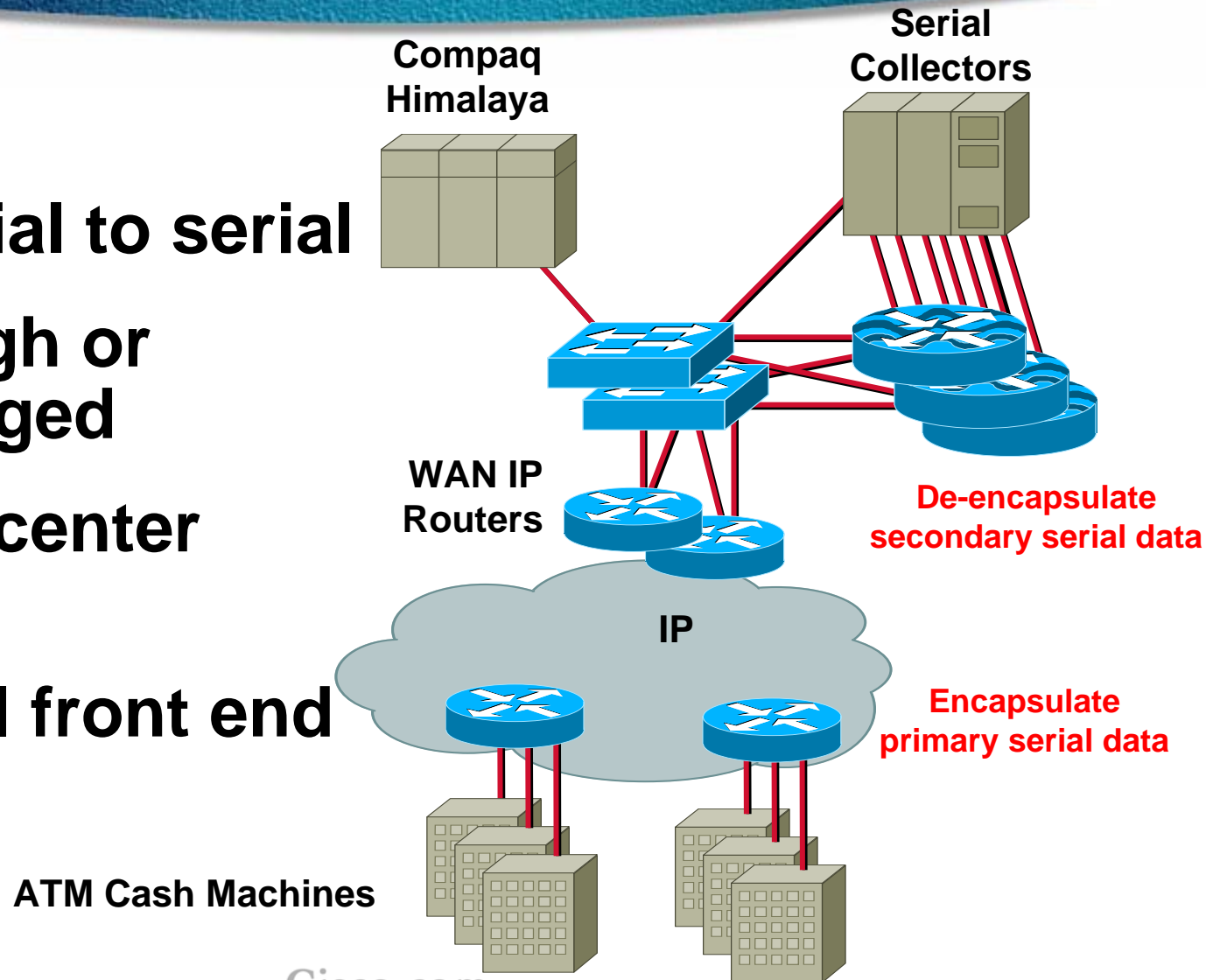**Network Platforms**

Clients

Why BIP?

- **More than 20,000 Bisync cash machines**

- **Many connect to BASE24 on Tandem computers**

- **New ATMs use TCP, connect to same application**

- **Serial connections to Tandem increasing in cost**

- **Vendors exiting legacy/serial markets**

    Fewer options, higher costs, increased risk
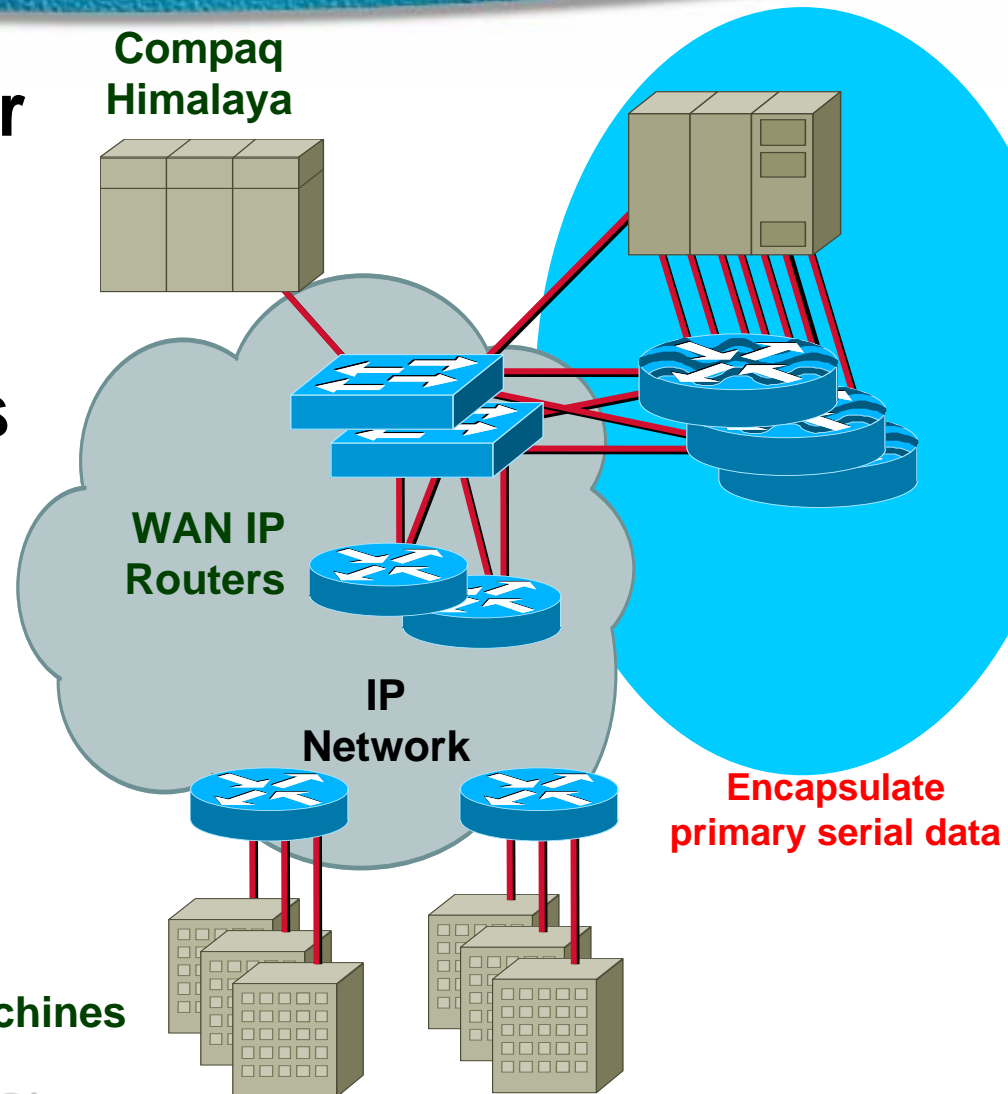
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Today's Solution: Bisync to the Switch

- **Tunnel serial to serial**

- **Passthrough or acknowledged**

- **Extra data center routers**

- **Extra serial front end**

Compaq Himalaya

Serial Collectors

WAN IP Routers

De-encapsulate secondary serial data

IP

Encapsulate primary serial data

ATM Cash Machines

Cisco.com
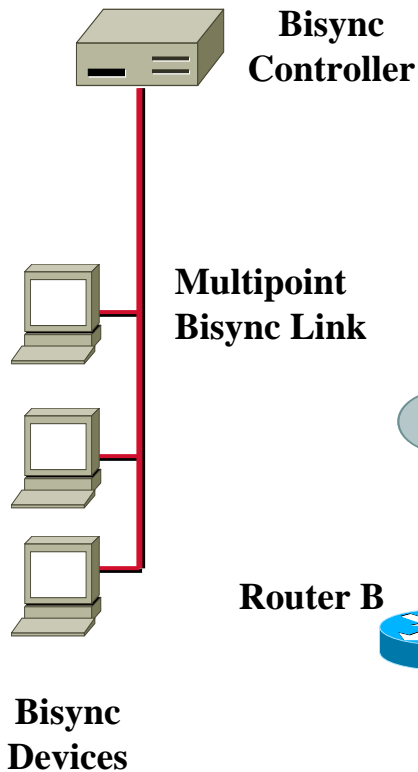
BIP Solution: IP to the Host

- **Convert serial header to TCP/IP header**

- **Cash machines controlled by routers**

- **No extra data center routers**
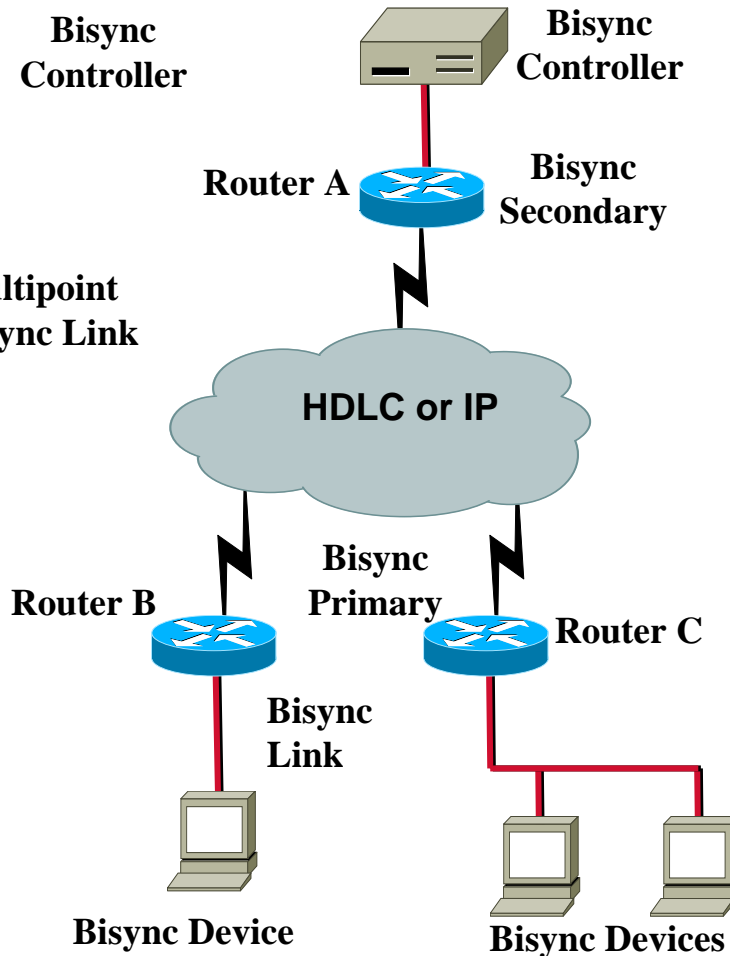
- **No serial front end**

- **IP directly in to host**

Compaq Himalaya

WAN IP Routers

IP Network

Encapsulate primary serial data

ATM Cash Machines

Cisco.com

BIP Solution

Existing Bisync Devices

Setup Using Cisco Routers

Cisco Bisync Support with BIP

Bisync Controller

Bisync Controller

Router A — Bisync Secondary

TCP/IP Host

Multipoint Bisync Link

HDLC or IP

IP Network

TCP/IP Tunnel

Router B — Bisync Primary — Router C

Router A

Router B

Bisync Devices

Bisync Link

Bisync Link

Bisync Link
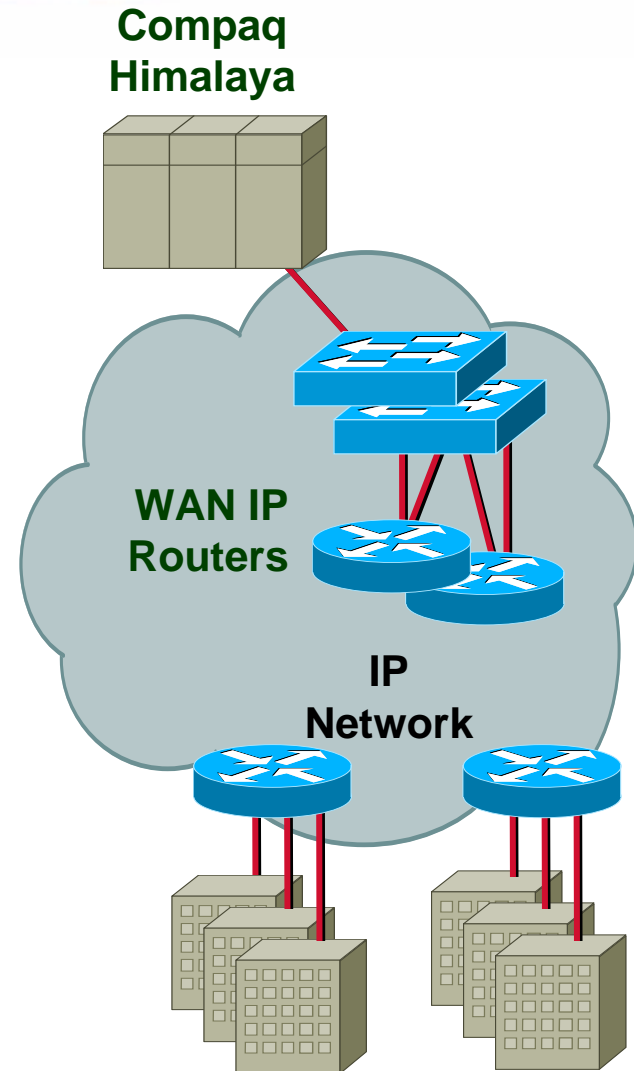
Bisync Devices

Bisync Device

Bisync Devices

Bisync Device

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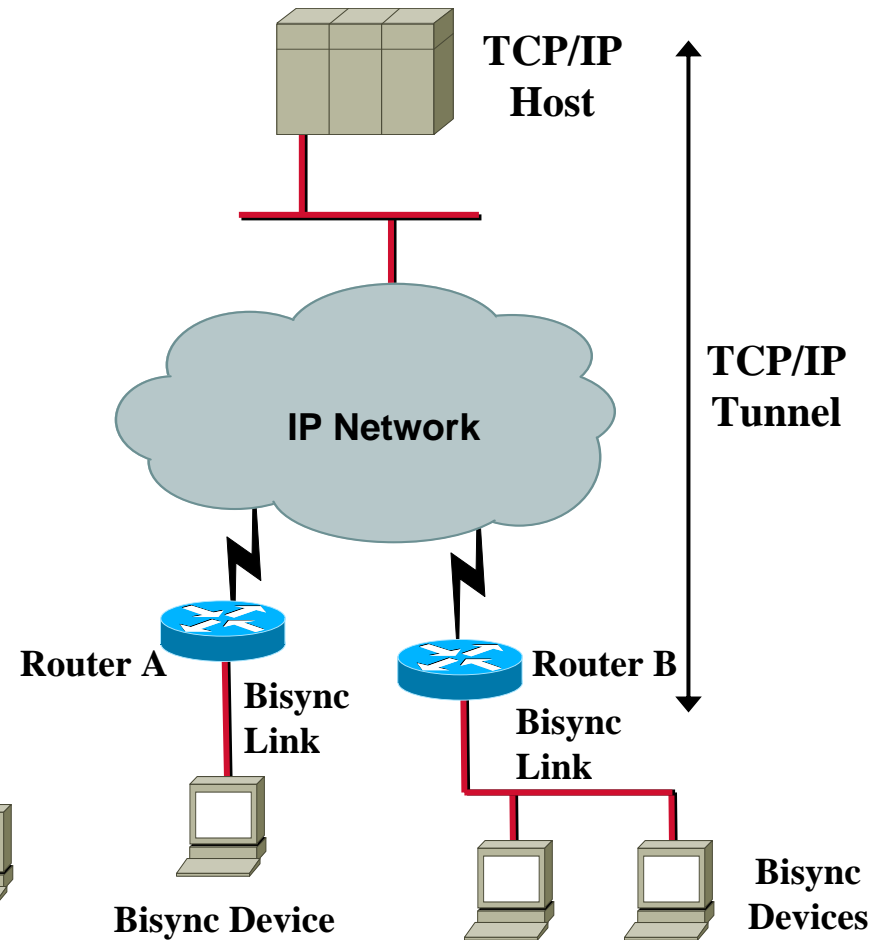
BIP Solution Benefits

- **No need to replace existing Bisync ATMs**

- **Reduced cost by eliminating**

    Serial connections to the host

    Expensive front-end serial processors to the host

    Head-end router in data center that previously did Bisync

- **Dynamic nature of IP routing leading to improved network performance**

Compaq Himalaya

WAN IP Routers

IP Network

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