

Cisco Introduces Broad Support for SIP across Packet Voice Products

External Presentation

Endpoints with voice driving converged IP infrastructure

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Challenges and Opportunities In Changing Times...

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Competition and plunging transport costs have shredded long-distance prices

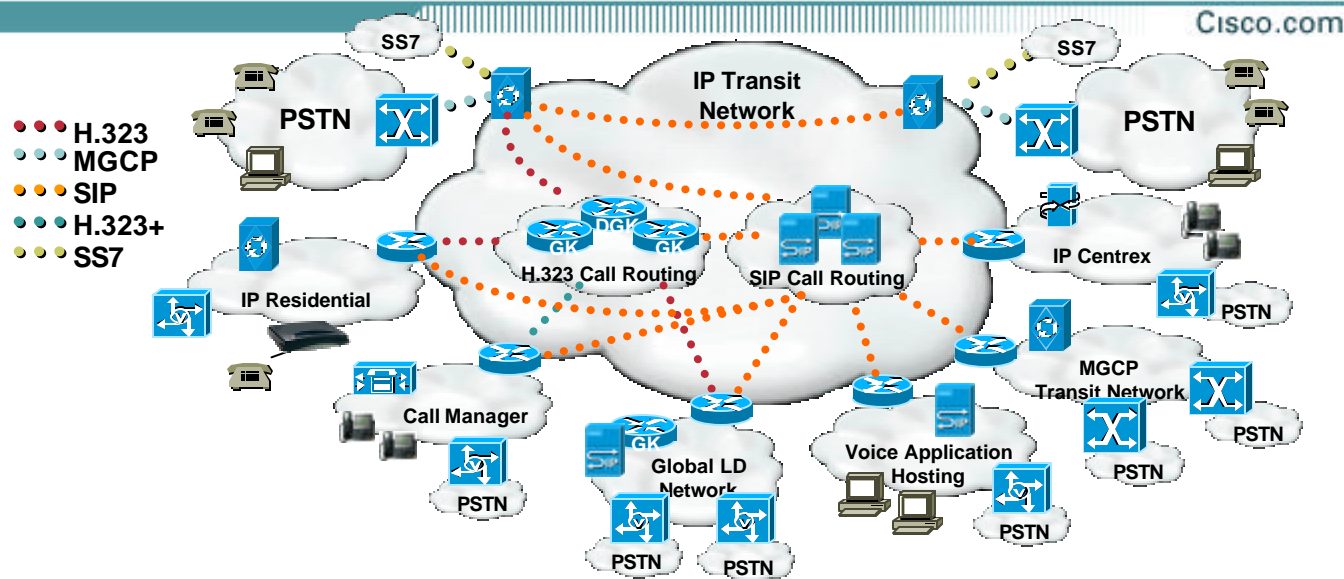
..... new voice technologies and services, sparked by the ever-increasing ubiquity and reliability of IP networks, are about to catch fire.

Forrester research, March 2001

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Build the Internet

Network of Networks Reference Architecture



- Service providers need to interconnect with many networks
Specifically, networks using a variety of telephony call control protocols
- Service providers will offer both transport and billable services
- Cisco is driving the intelligence into its network elements to provide the “glue” that will bind the networks together

The Benefits of SIP

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Session Initiation Protocol promises to speed the delivery of new services and applications

| Feature | Benefit |
|---|--|
| Lightweight, ASCII-based protocol similar to HTTP | Simplifies development of applications |
| Reuses other IETF protocols, such as SDP, DNS, etc. | Can be tightly integrated with web-based services |
| Application/media agnostic | Can be used for any real-time application, including voice, video, messaging, etc. |
| Increasing market adoption | Availability of SIP-based products growing |

Cisco and SIP

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- **Cisco Service Provider Products Supporting SIP**
 - IOS Gateways:** 1751, 7200, 2600, 36x0, AS5300, AS5350, AS5400 Series, AS5850
 - Call Agents/Softswitches:** BTS 10200, PGW2200
 - Endpoints:** ATA 186, 7940, 7960
 - Infrastructure:** Cisco SIP Proxy Server, PIX Firewall, IOS NAT
- **Cisco Driven Solutions are being deployed today**
 - SIP Global Long Distance** deployed by several carriers including some with integrated H.323 gateways.
 - SIP IP Business Solutions** starting to emerge
 - SIP voice application solutions** deployed by 5+ carriers (includes Windows Messenger PC-to-Phone support)
- **Cisco continues to be at the forefront of SIP development and adoption, including participating in SIP Bake-offs, IETF Standards, Industry Conferences, etc.**

Cisco SIP Product Portfolio

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Cisco ATA 186



Cisco Voice Gateways



Cisco PIX Firewall



Cisco 7940 & 7960 IP Phones



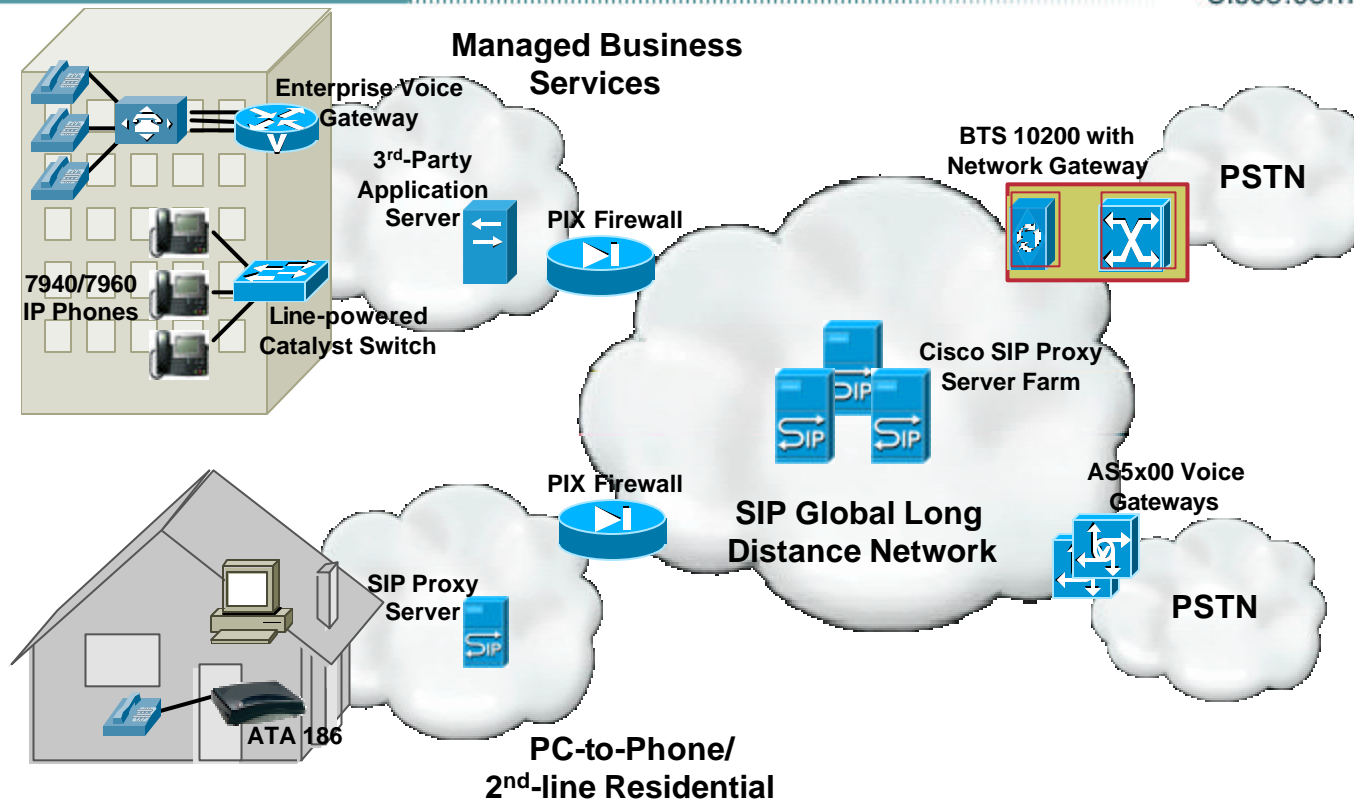
**Cisco Softswitch and
Signaling Gateways**



Cisco SIP Proxy Server

Cisco SIP Products in a VoIP Network

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Cisco SIP Portfolio Benefits

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Cisco SIP Products Enabling Service Deployment

| Feature | Benefit |
|-------------------------------|--|
| Complete Product Portfolio | Reduces solution integration cycle and risks |
| Feature-Rich Voice Gateways | Faster application and service deployment |
| High-performance Call Control | Increases networking scaling and reliability |
| Multi-protocol Integration | Future-proof equipment purchases plus increased operational efficiencies |

Customer Case Studies

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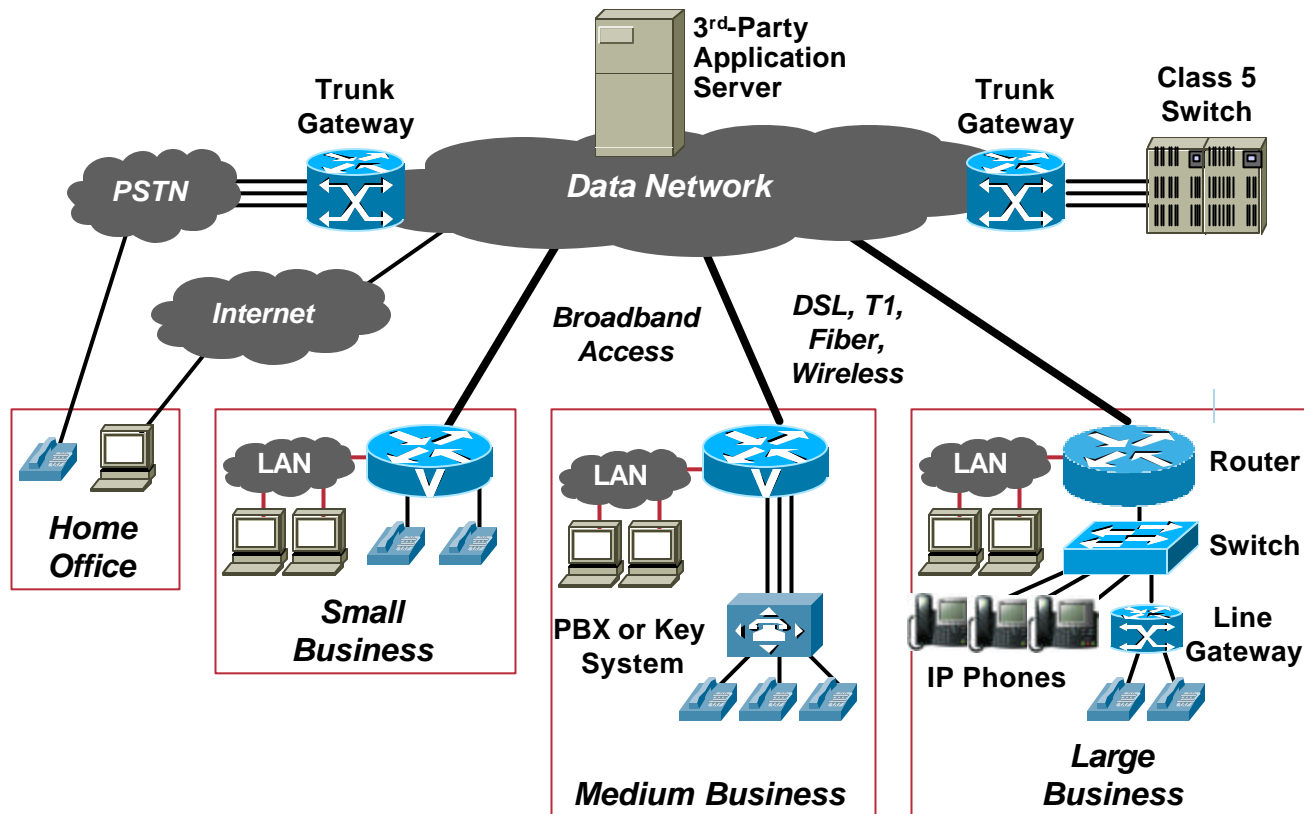
- Provides voice and data applications on one network, allowing business customers to transition to IP-based communications.
- Delivers call routing and feature control using Cisco IP phones, without PBX equipment
- Offers enhanced voice mail to receive recorded messages via the web or email
- Built network to interoperate with the PSTN and existing PBX to ensure smooth migration



- Provides wholesale telephony solutions that retail service providers and value-added resellers offer to business customers
- Offers Virtual PBX and IP Dialtone services to small businesses
- Partnered with Cisco and Broadsoft to deploy end-to-end IP offering
- Built SIP-based applications that integrate call routing with personal calendar programs

SIP Service Delivery Architecture: *Managed Business Services*

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Customer Case Studies

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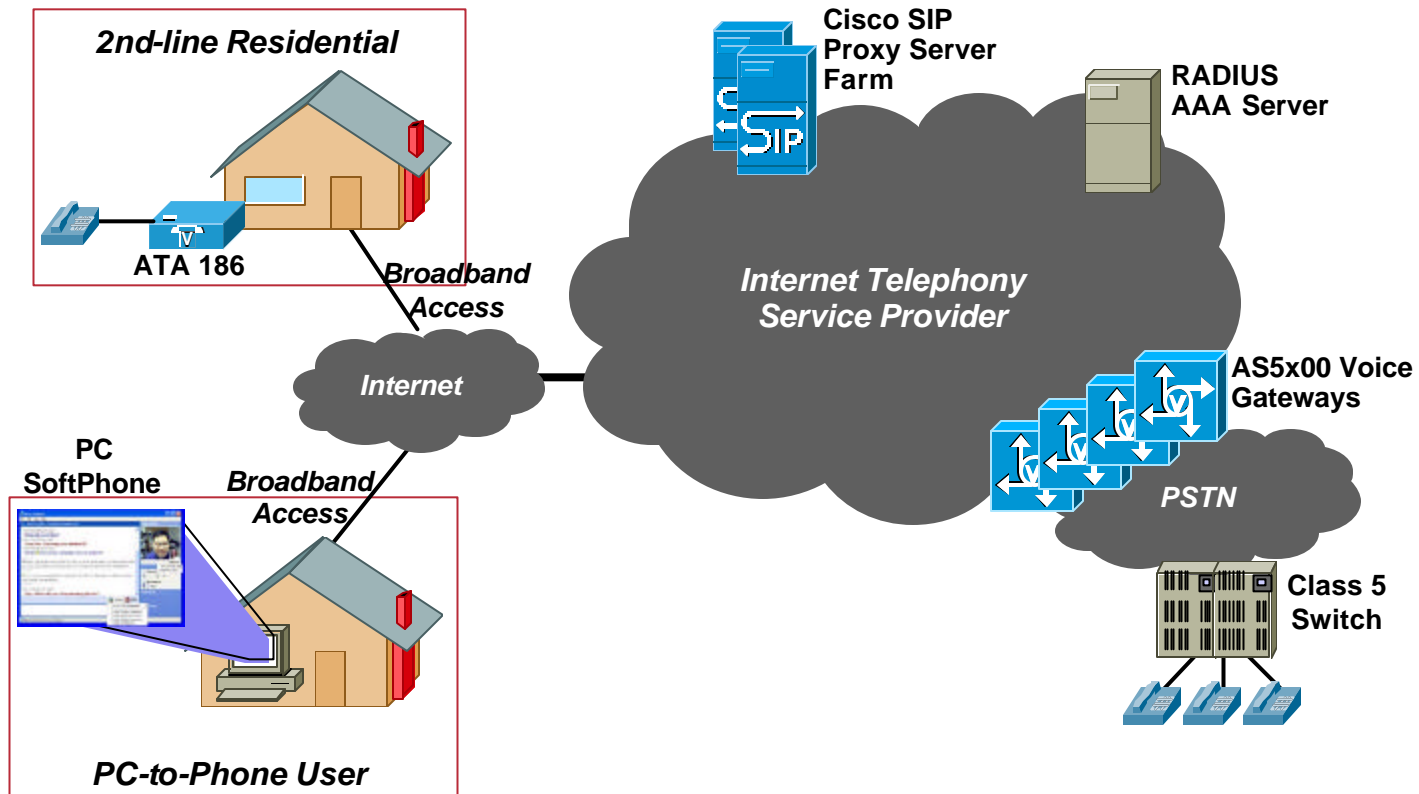
- Provides alternative line carrier-grade phone services to residential customers
- Offers enhanced services such as Blast Me, a service that simultaneously delivers calls to multiple phones, including Cisco IP Phones
- Allow customers to choose their area-code regardless of physical location
- Partnered with Cisco to deploy SIP-through-NAT solution for home users



- Provides Internet telephony services and infrastructure for service providers, small businesses and consumers worldwide
- Built and launched Microsoft Windows Messenger PC-to-phone service
- Also offers phone-to-phone and broadband phone solutions
- Achieved 30-40% reduction in network operational costs by deploying Cisco SIP infrastructure

SIP Service Delivery Architecture: PC-to-Phone/2nd-line Residential Services

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Cisco SIP Services Summary

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- **Cisco is committed to supporting SIP in next-generation products and services**
- **Service providers can choose from a broad array of Cisco products supporting SIP, including voice gateways, proxy servers, firewalls, and IP endpoints**
- **Service providers are successfully deploying revenue-generating services today using Cisco SIP products**