

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



The Benefits of SIP

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 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

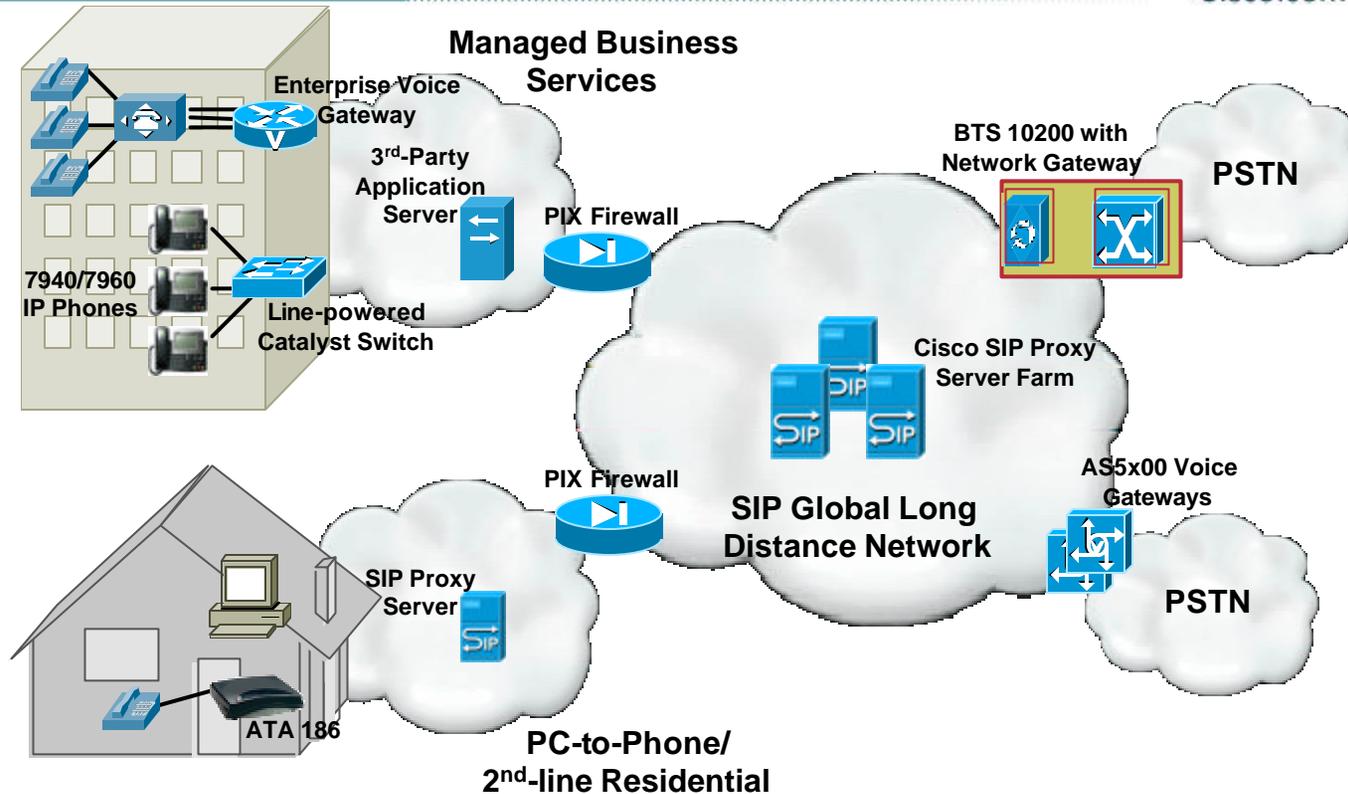


Cisco Softswitch and Signaling Gateways



Cisco SIP Proxy Server

Cisco SIP Products in a VoIP Network



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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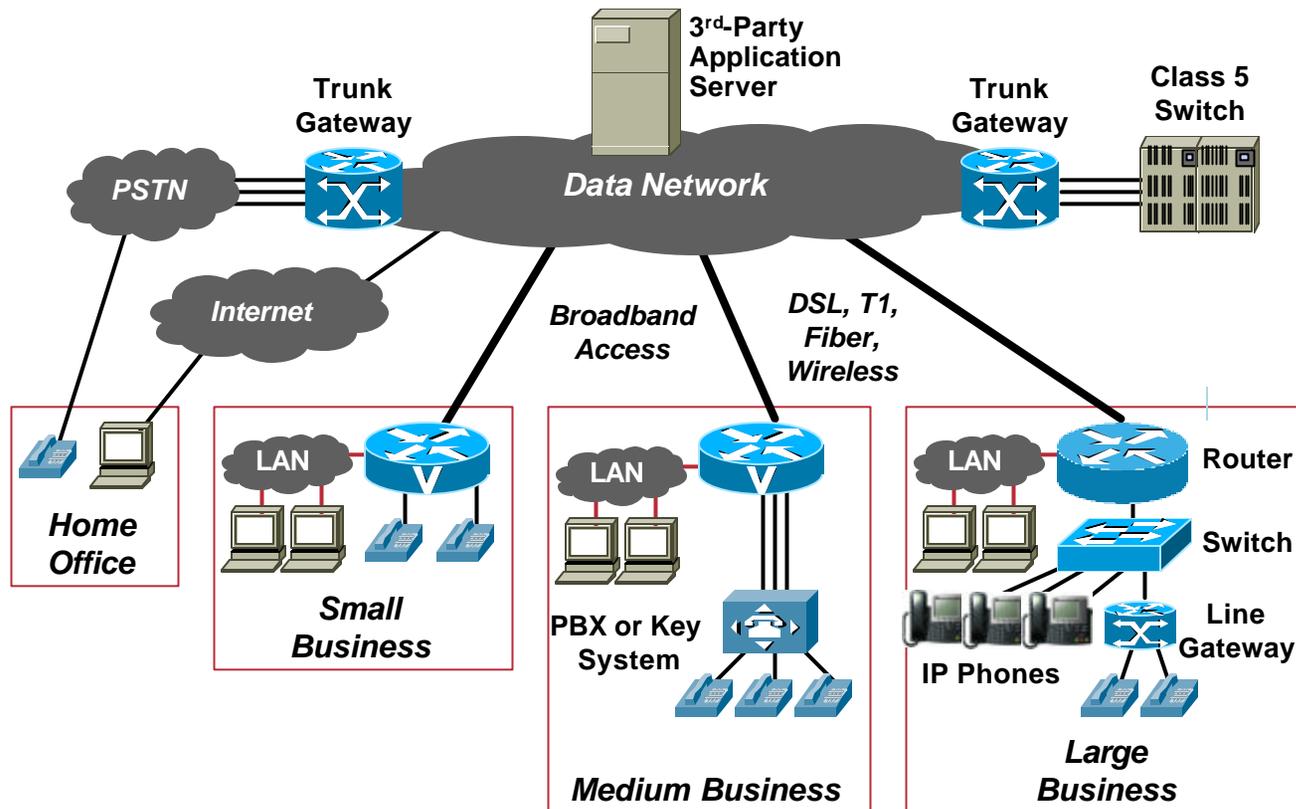


- Provides voice and data applications on one network, allowing business customers to transition to IP-based communications.
- Delivers call routing and feature control using Cisco IP phones, without PBX equipment
- Offers enhanced voice mail to receive recorded messages via the web or email
- Built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



Customer Case Studies

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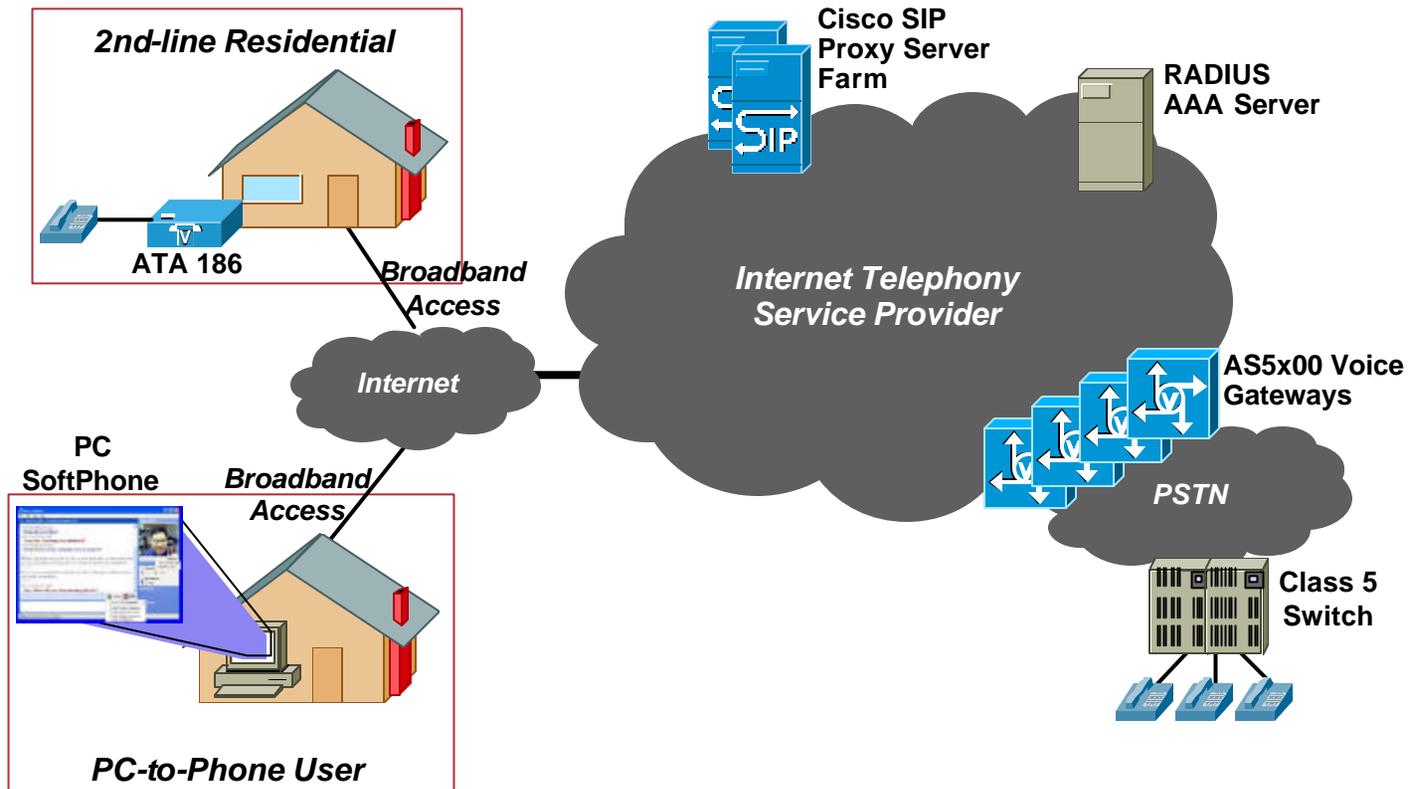
- Provides alternative line carrier-grade phone services to residential customers
- Offers enhanced services such as Blast Me, a service that simultaneously delivers calls to multiple phones, including Cisco IP Phones
- Allow customers to choose their area-code regardless of physical location
- Partnered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