



DATA SHEET



KEY BENEFITS

Increased Return on Investment

Maximize your VoIP investment by extending beyond the LAN and realizing end-to-end VoIP communications.

Streamlined Operations

VeriSign is your single inter-connection point into a variety of foreign VoIP networks, providing a secure platform, resolving interoperability issues, and delivering end-to-end IP features.

Reliability

Route management for PBX IP Connect is supported by the VeriSign Network Routing Directory with proven scalability and reliability—built upon the VeriSign ATLAS infrastructure handling more than 14 billion transactions a day for the Internet's .com and .net domains.

The VeriSign PBX IP Connect Service Provides:

- + Secure connectivity
- + Robust route management
- + Reliability and scalability
- + Interoperability with peer network equipment
- + Feature transparency

VeriSign® PBX IP Connect

The VeriSign® PBX IP Connect service interconnects voice-over-Internet protocol (VoIP) LANs into a unified VoIP network, for true end-to-end VoIP calls supported by VoIP-enabled features. With the VeriSign PBX IP Connect service, voice and data applications can reside on the private network and leverage the full advantages of complete IP transport.

+ Extending the Reach of VoIP

Enterprises have begun to make the transition to VoIP, and IP phones are becoming commonplace among corporate employees. However, very little progress has been made in extending the reach of VoIP beyond the firewall. Because VoIP remains a within-LAN application, each site of an enterprise is, in effect, a VoIP island.

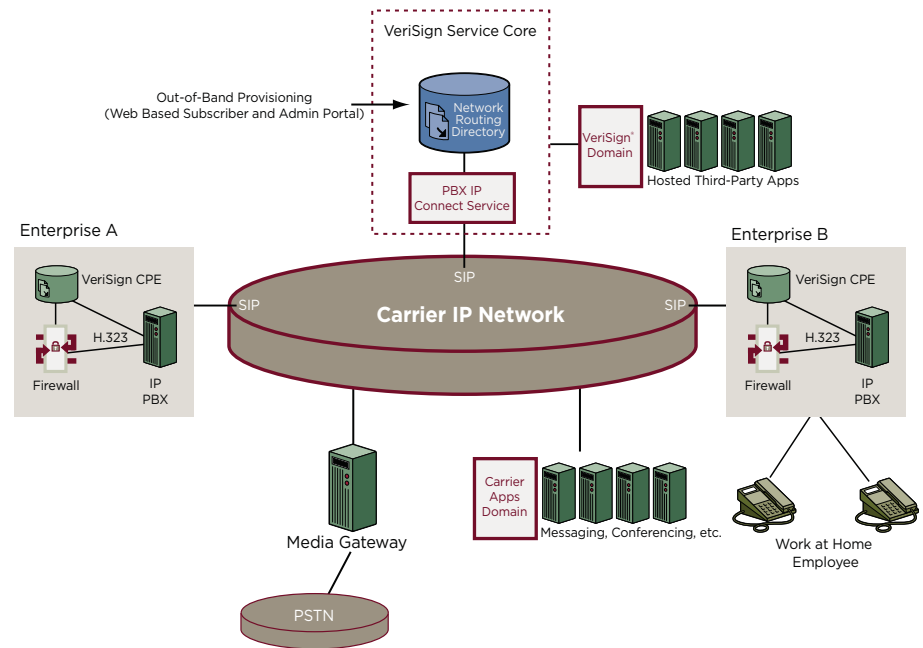
The advantages of operating an IP network will be more fully realized when the enterprise's IP infrastructure can interconnect with other IP infrastructures—enabling end-to-end VoIP, access to third-party applications, and delivery of advanced IP features. This requires that the VoIP network has secure connectivity to IP endpoints. The higher the degree of connectivity, the greater the return on the enterprise's investment in VoIP equipment. However, finding and connecting with other IP infrastructures are complex tasks requiring the management of multiple connections, ensuring security of those connections, and resolving interoperability with a disparate IP landscape of PBXs, applications, and corporate networks.

+ The Solution

The VeriSign PBX IP Connect service provides the enterprise with a secure, reliable border control gateway establishing a single interconnection point to the VeriSign next-generation platform, and access to IP endpoints registered in the VeriSign® Directory. Leveraging PBX IP Connect, enterprise networks do not have to maintain interconnection points to a variety of foreign VoIP networks, each with its own particularities. The VeriSign PBX IP Connect service mediates between differing PBX technologies, allowing customers to extend their VoIP reach, using only one interconnection to the VeriSign network. VeriSign also enables next-generation service providers to participate in this infrastructure, offering their enterprise customers a PBX interoperability solution.



PBX IP Connect Architecture



The VeriSign PBX IP Connect service mediates between differing PBX technologies, to provide seamless, end-to-end IP telephony between an enterprise's sites or between other enterprises/communities of interest.

The PBX IP Connect service helps the enterprise benefit from their IP investment by providing more efficient voice communications network operations including:

- Centralized control of user for add-modify-delete actions
- Transition to IP from circuit-switched services
- National, regional, and international dial plan control
- Improved disaster recovery and relocation services
- Video-based services
- Support of remote employees
- Convergence with mobile (cell phone user) employees
- Cost reduction on applications such as conferencing
- Maximize savings on intra- and inter-company calls

As a fully-managed service, VeriSign PBX IP Connect helps lower initial investment; enables a unified strategy on network planning for security and directory for all applications and vendor equipment; speeds and simplifies introduction of new applications; and provides a single, normalized signaling stream entering the IP core.



Route Management: PBX IP Connect is managed by the VeriSign Network Routing Directory—built upon the same infrastructure that currently handles over 14 billion transactions daily for the Internet *.com* and *.net* domains—to route calls to the proper network based on the location of the called party. Additional routing criteria, provisioned per enterprise, are also supported for more sophisticated route resolution methods. The PBX IP Connect solution is integrated with VeriSign’s own SS7 network to handle SS7 interactions transparently to the enterprise.

Reliability and Scalability: Routing resolution for inter-enterprise calls need to be supported by a 99.999 percent available infrastructure, and VeriSign provides that level of reliability. Also, the VeriSign infrastructure can scale to support a very large number of routing entries—though the VeriSign® ATLASSM platform (infrastructure supporting the Network Routing Directory) supports more than 14 billion transactions a day for the Internet’s *.com* and *.net* domains, it can support many times that amount of traffic.

Interoperability: PBX IP Connect from VeriSign supports H.323, SIP, and CMSS to interconnect with egress and ingress networks while normalizing call control in the core to SIP. The border control gateways of the VeriSign network communicate with the interconnecting VoIP networks using the protocol already deployed; this minimizes the interoperability challenges that mostly occur in call setup with the terminating networks. If terminating networks use H.323 or SIP call control protocols, both sufficiently different from the enterprise’s own call control signaling, the VeriSign network resolves these differences, making them transparent to the interconnecting networks.

Feature Transparency: VeriSign resolves interoperability between IP PBX equipment so features can be delivered end to end, regardless of the protocols in use or the equipment deployed in the enterprises’ networks. The VeriSign Interoperability Lab conducts testing of interoperability between leading vendor’s devices, and the ability to access and deliver features.

+ About VeriSign

VeriSign is the trusted provider of Internet infrastructure services for the digital world. Billions of times each day, companies and consumers rely on our Internet infrastructure to communicate and conduct commerce with confidence.

Visit us at www.Verisign.com for more information.