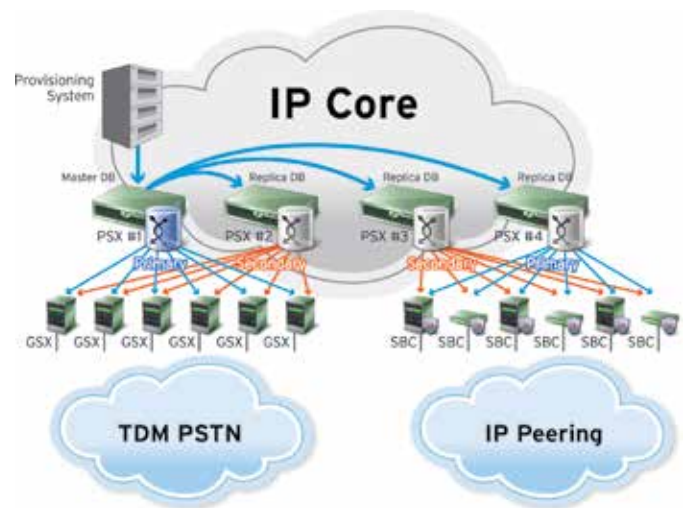


Sonus PSX™ Centralized Routing and Policy Server

Meet the nexus of next-generation SIP session management: the Sonus PSX Centralized Routing and Policy Server. It's at the center of a SIP communications solution so powerful that it drives nearly 500 million SIP sessions in the world's carrier and enterprise networks every day. Yet it's based on an architecture so simple that it can save network operators millions in reduced CAPEX and OPEX costs.

In the evolution to SIP communications, the future belongs to Sonus. Today, our solutions drive more VoIP long-distance minutes than any other network vendor in the world. But what truly separates us from the competition is a fundamentally different approach to IP network design that provides exceptional scalability, flexibility and cost-efficiency.

At the heart of our revolutionary SIP-based architecture is the PSX Centralized Routing and Policy Server: a sophisticated session routing and policy management server that combines advanced features with a highly scalable design. The PSX server does something that no other SIP solution can: single-point provisioning of routing and policy data for an entire network. Unlike traditional network solutions, the Sonus architecture disaggregates the policy and routing intelligence from the physical session border controller (SBC) or media gateway, then centralizes that intelligence in a single "master" server that can be replicated instantaneously on local PSX servers. Compared to the isolated islands of network intelligence found in most SBC and softswitch solutions, Sonus blends the simplicity of single-point provisioning with the practicality of distributed processing for a powerful SIP platform like no other.



A Sophisticated Call Route Server

The PSX server combines sophisticated call routing intelligence with exceptional capacity, storing tens of millions of call routes in a single database. The Sonus network architecture automatically distributes that routing intelligence to every PSX server in the network, greatly simplifying the provisioning process while reducing manual errors. The PSX server supports a wide range of pre-routing services—including external TCAP, IN/AIN, SIP and ENUM lookups—and provides robust interoperability with TDM, H.323 and SIP networks for universal routing services.

An Advanced Policy Server

In addition to routing information, the PSX database stores the policy data on each subscriber and subscriber group in the network—up to tens of millions of subscribers in a single database. Here again, Sonus' single-point provisioning architecture greatly reduces the effort and errors normally associated with frequent MACs (moves/adds/changes) in the network. The PSX server supports hundreds of configurable policies, including custom dialing plans, emergency calls, blocking, screening, local number portability and calling name delivery.

A Powerful Call Routing Engine and More

The PSX server can function as a powerful call routing engine in any standards-based IP network, allowing network operators to leverage Sonus' industry-leading call routing and policy management with their existing media gateway platform. In addition to centralized routing, the PSX server also acts as a SIP Proxy, SIP Redirector and an H.323 Gatekeeper. The flexibility and interoperability of the PSX server make it a logical choice for enterprise session management where centralized dial plans across multiple voice network platforms are critical.

The PSX Centralized Routing and Policy Server combines single-point provisioning of call routing and policy data with distributed call processing, making it the world's most scalable, powerful SIP routing and policy management platform.

Reduce CAPEX and OPEX Costs

The scalable, high-availability architecture of the Sonus PSX platform shrinks CAPEX costs by maximizing hardware resources in the network, while its single point of provisioning greatly reduces operating costs. The ability to centrally manage dial plans (including individual numbering and multi-country plans) and set sophisticated, rules-based call routes for least-cost routing and on-net routing can eliminate many of the expensive toll-based charges for local and long-distance calls, potentially saving millions in toll fees for carriers and enterprises. The PSX server also features an open provisioning API for operators who wish to use third-party least-cost routing tools.

Transcoder Free Interconnect

Even with a converged IP core, traditional routing requires transcoding between the access network and the core network. For large networks, this can translate into dozens of SBCs or switches, each requiring its own digital signal processor. The Sonus PSX server eliminates unnecessary transcoding by intelligently routing mobile-to-mobile calls and instructing the switches to disable transcoders from the media path.

High Availability and Reliability

The PSX platform features a failsafe, redundant architecture that delivers 99.999% availability through a 2U master configuration and primary/secondary failover for every PSX server in the network. The PSX server includes unique service characteristics such as live data migration and a "shadow" database capability that allows network operators to quickly restore policy/routing data to the last saved version. The PSX server also supports local element level congestion control and network-wide traffic management controls, which allow carriers to deal with overload conditions in a graceful manner.

PSX Server Features at a Glance

Call routing capabilities

- Calling party category routing
- Carrier cut through routing
- Casual call routing
- Direct dial-in routing
- Disabling routes
- Emergency routing
- Fallback routing
- Generic number routing
- International routing
- Leading digit routing
- Least cost routing
- Nested routing labels

- Operator Services and Directory Assistance
- Origination entity routing
- Overflow routing
- Private call routing
- Private number routing
- Round robin routing
- Route hopping
- Routing to announcements
- Temporary alternate routing
- Time of day/time zone and day of week routing
- Transmission medium requirements routing

- Trunk group prioritization routing
- and many more!

Emergency services

- Enhanced 911 (E.911)
- Government Emergency
- Wireless Priority Service (WPS)
- Telecommunications Service (GETS)
- Japan Emergency Call Services (ECS)
- And more...

Pre-routing translation services

- Calling name delivery
- Customizable AIN/IN
- Local number portability
- Toll-free/Freephone
- And more...

Standard voice services

- Auto recall
- Business group blocking
- Conference and transfer
- Message waiting indication
- Runtime variables in scripts
- Service exception profiles
- Take back and transfer
- And more...

The Sonus PSX server delivers sophisticated features and functionality you won't find anywhere else:

- Supports a wide array of services including toll bypass, Voice VPNs, ENUM/INAP/CAMEL lookups, blacklisting/greylisting and regulatory services (E911, GETS, MLPP, Lawful Intercept).
- Provides powerful features as call routing engine in heterogeneous voice networks including SIP, H.323, TDM, SS7/C7, IN/AIN, etc.
- Highly redundant architecture and live upgrade capabilities deliver 99.999% availability—even during peak loads of millions of calls-per-hour

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