PSX-E Enterprise Class VoIP Solutions

1.Introduction:

● Posterity technologies provides complete VoIP solutions to enterprises of different categories to meet their diverse requirements.

● PSX-E soft switch is well expandable. It can incrementally expand in it capacity to go along with the growth of the small to medium sized companies

● PSX-E fits to various vertical markets, such as hotels, hospitals, schools, government agencies, banks, logistics companies, and multi-nationals.

● PSX-E system not only reduces enterprise capital spending but also provides flexibility and usability of the end points

● PSX-E system provides open API to enterprises or third parties on further development in the application levels to satisfy customization requirements

2.System Architecture

1) Call Server

The Call Server module processes all inbound calls intercepted by the PSX soft switch. It fulfills number translation, call routing, and all other call processing tasks.

2) SIP Server

The SIP Server module handles all SIP messages for the signaling of the calls, including end point registration, call establishment, call tear down, etc.

3) Virtual Media Server

The Virtual Media Server arranges the RTP packets to travel to the right direction and in the right order.

4) CDR Server

The CDR Server generates the CDR's for billing and statistics purposes.

5) Web Server

The Web Server provides a web based user interface for the enterprise user to configure, control, maintain, and manage the PSX soft switch.

6) Application Servers

An Application Server provides a specific value added service on top of the basic functionality of the PSX soft switch. It has an application programming interface (API) open for the enterprise users or any other third party software developers to add new features on demand. Examples of the application servers are Voice Mail Server, Conference Server, Interactive Voice Response (IVR) Server, and Call Center Server.

▶ Voice Mail Server

A voice mail server is an application software module that processes voice mail call flows.

▸ Conference Server

A conference server is an application software module that processes audio and video conference call flows.

▸ IVR Server

An IVR server is an application software module that processes the interactive voice response call flows.

▸ Call Center Server

A call center server is an application software module that processes the call center call flows.

3.Network Structure:

Posterity PSX soft switch system adopts distributed network solution. It adopts pure SIP protocol.

The PSX soft switch alone with billing server, digital media gateway or analog media gateway, and IP phone or IAD end points are installed in the enterprise headquarters. The branches are only deployed with IP phone and IAD end point.
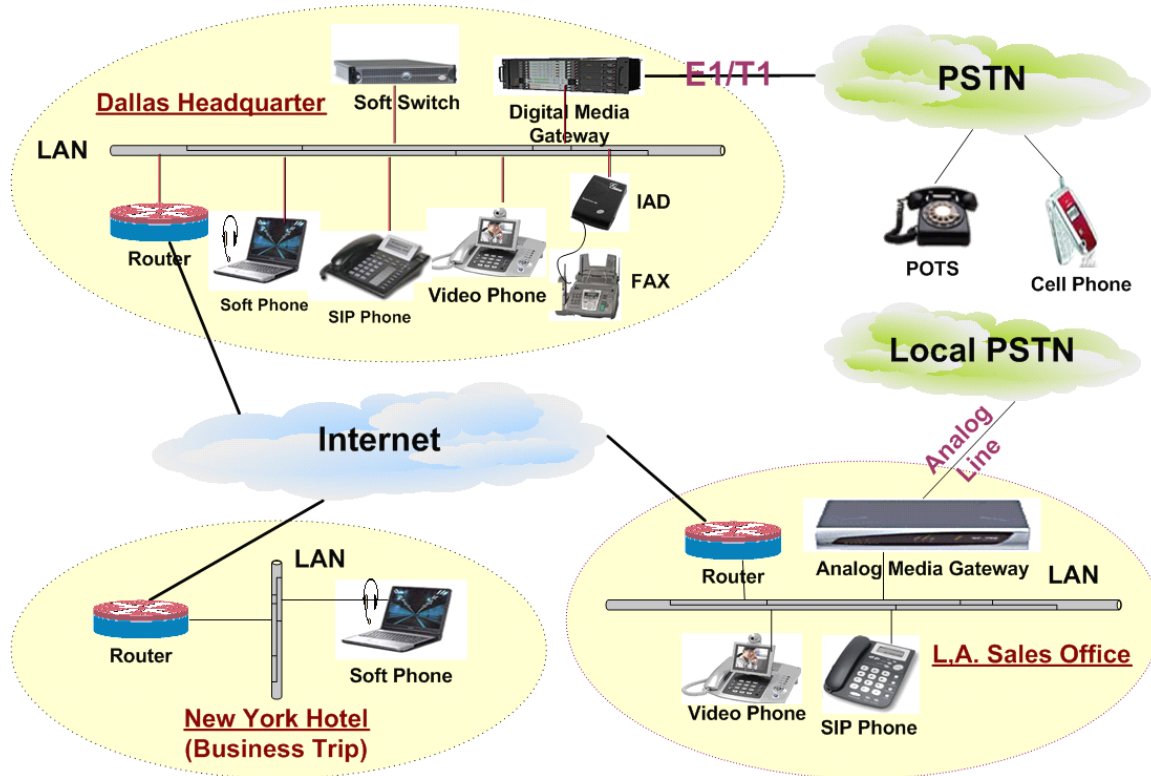
Network Structure Diagram

4. Enterprise Class Voice Service

SIP to SIP

SIP to PSTN

PSTN to SIP

Video to SIP

SIP to video

5.Basic Features

Voice, Fax, and Video Communications

NAT Traversal

Calling Number Translation

Called Number Translation

Multiple Routing

Real Time CDR Generation

Caller ID

Call Waiting

Call Forwarding

Call Transfer

Call Blocking

Three Way Calling

Voice Mail

Multiple Server Ports

On Line Monitoring

Hacking Prevention

Controlled System Access

Multi-Level Authorized Operatio

6.Value Added Applications

One Number Service

Color Ring Back Tone

Alarm Service

Auto-Attendant

IVR Service

Audio Conference

Video Conference

Call Center

Call Back Service

Web 800 Service

Voice Message Broadcasting

7. Sample Customer List

China RailCom (Baoji)

Jincheng City

Microtel (Tomah, Wisconsin)

China PetroCom

North China Electricity

Jinan Yuquan Hotel Group