AP-SVG3000
STT (Speech to Text) VoIP Gateway

STT VoIP Gateway Service Mode
(Radio PTT Talk Listening Service)

AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

Contents

Product Overview

AP-SVG3000 8 Port STT VoIP Gateway

- H.323/SIP Dual Concurrent Stack Embedded
- High Performance RISC & Programmable DSP Architecture
- Various STT Audio Interface Module(16KHz G.722, etc) Support
- G.722(16KHz) beside 8KHzG.711/G.726, etc VoIP Codec Support for Backward Compatibility
- Independent Octal (8) STT VoIP Gateway Module
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- SNMS (Smart Network Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism
- 19 Inch Rack Mountable Design with Internal Power Supply
- Four(4) VoIP Module Slot

Hardware Specification

AP-SVG3000 8 Port STT VoIP Gateway

RISC CPU

High-end DSP

- RISC Microprocessor Computing Power
- Up to 8 Port STT VoIP Gateway
- Four VoIP Module Slots

  - 2-Port STT Audio Module Card (Audio (3.5mm), Radio(RJ45)

  -One(1) 10/100Mbps Fast Ethernet (RJ45)/ Port

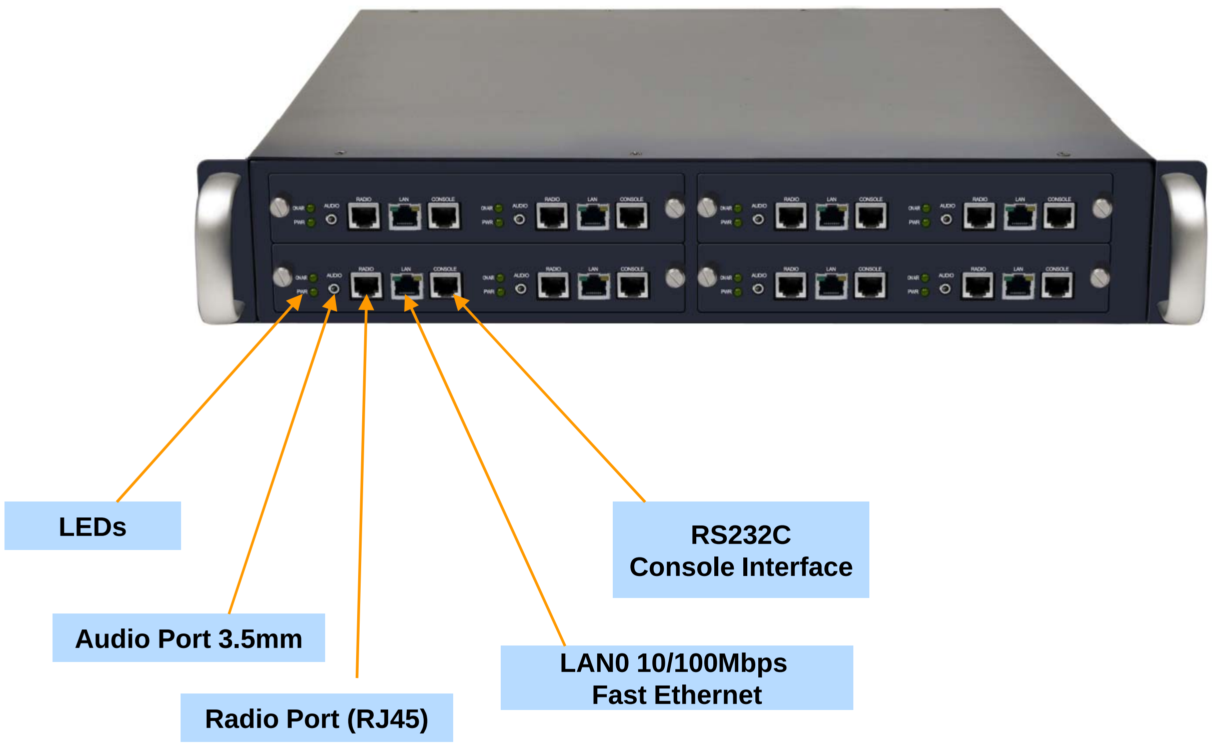
  -One(1) RS232C Console Interface (RJ45)/Port

  -Status LEDs/Port
- Internal Power Supply

Hardware Specification

AP-SVG3000 8 Port STT VoIP Gateway

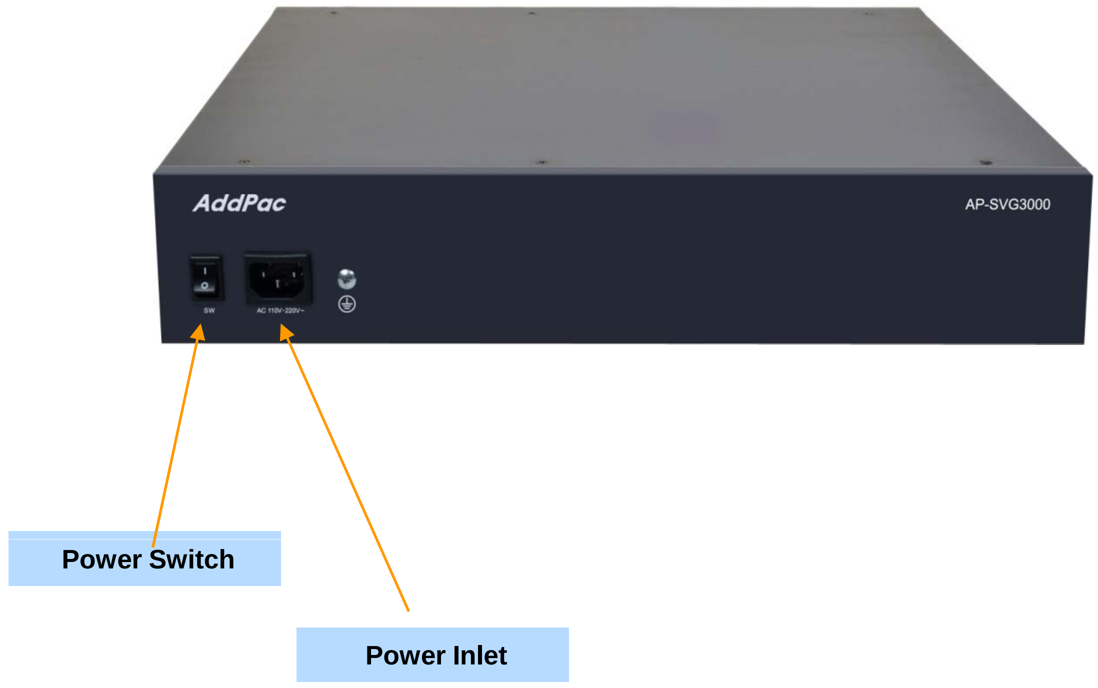
Front Side



Hardware Specification

AP-SVG3000 8 Port STT VoIP Gateway

Back Side



Hardware Specification

AP-SVG3000 8 Port STT VoIP Gateway

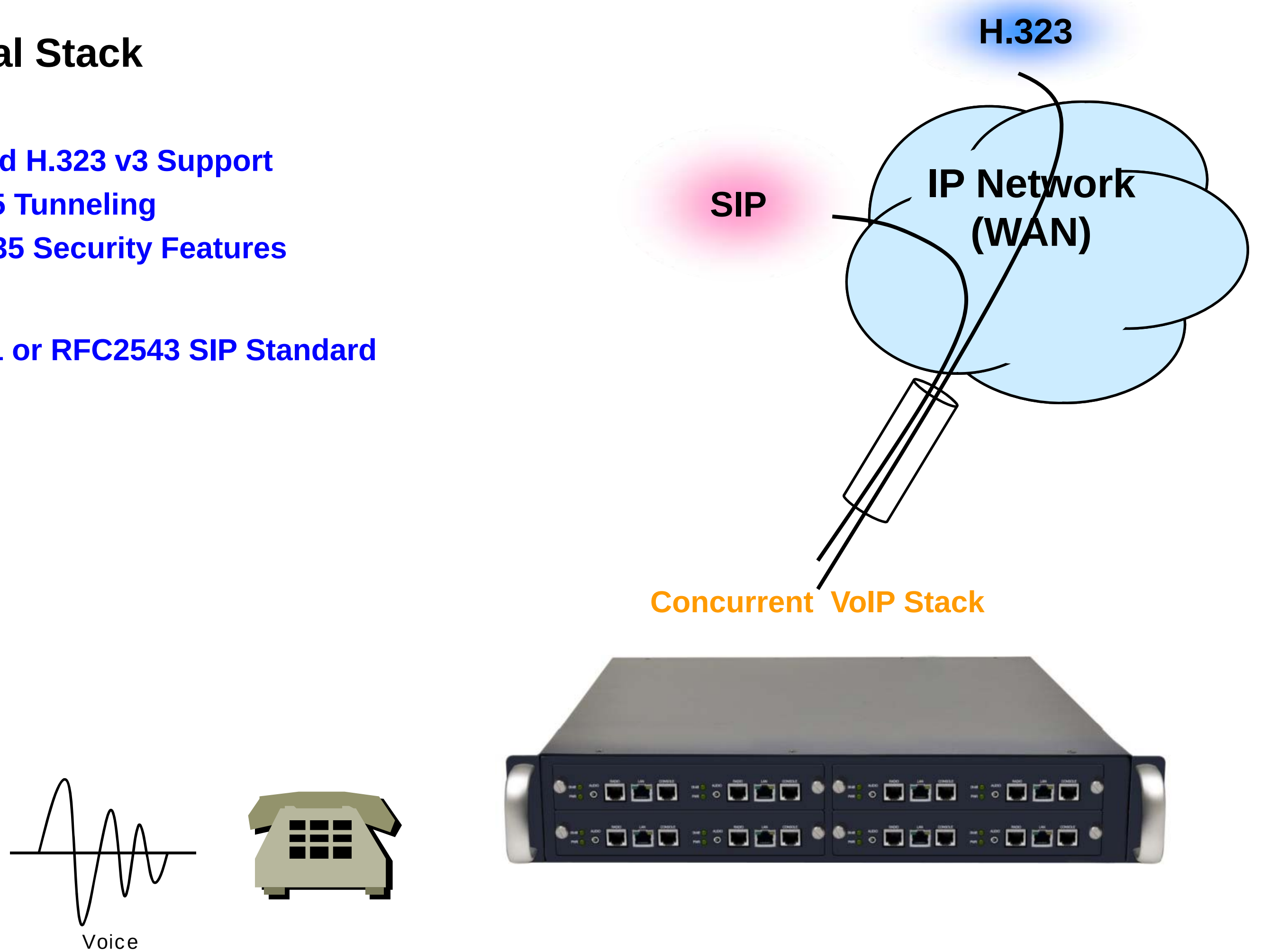
Example : RADIO Interface for Radio Interworking

RADIO Port (Tx, Rx, PTT Tx, PTT Rx)

AP-STT2 Two(2) Port STT VoIP Module

VoIP (Voice over IP) Service

- **H.323, SIP Dual Stack**
- **H.323**
  - **ITU-T Standard H.323 v3 Support**
  - **Support H.245 Tunneling**
  - **Including H.235 Security Features**
- **SIP**
  - **IETF RFC3261 or RFC2543 SIP Standard**



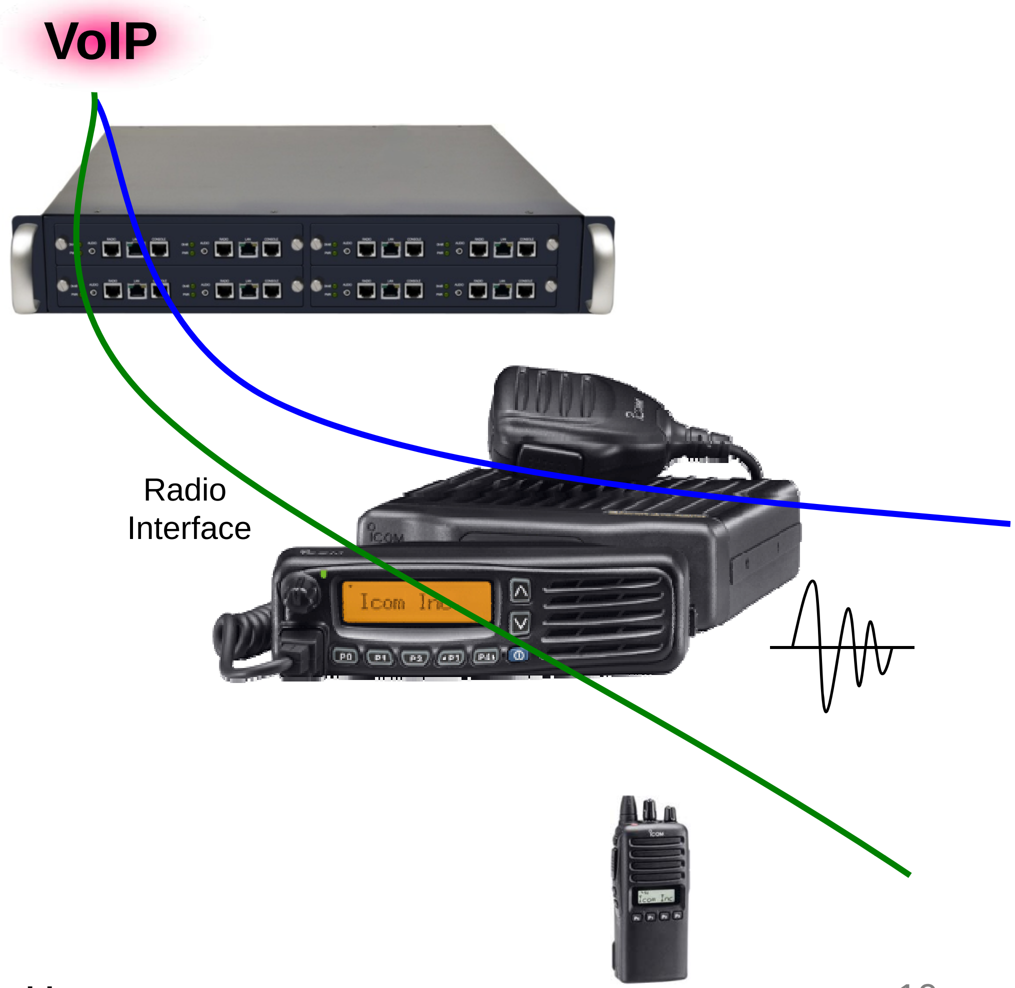
VoIP (Voice over IP) Service

- **H.323**
  - Fast connect, normal connect support
  - H.245 tunneling support
  - Q.931 response message setting for inbound VoIP calls
  - H.245 logical channel open timing selection function
  - Start H.245 procedure support
  - DTMF / Hook flash relay with H.245 alphanumeric / signal
  - Secondary gatekeeper support
  - Gatekeeper assignment according to the domain name
  - Gatekeeper discovery with multicast
  - Lightweight RRQ support
  - Signaling TCP port assignment
  - Resource threshold setting with RAI
  - H.235 clear-token, crypto-token support
  - canMapAlias support
  - Technical prefix (supported prefix) support
  - Public IP assignment in NAT environment

- **SIP**
  - Gateway-based / Endpoint-based registration support
  - Secondary proxy-server assignment function
  - SIP signaling port change function
  - SIP proxy server assignment according to the domain name
  - T.38 real-time fax relay support
  - DTMF relay support with RFC2833 / OPTION message
  - Re-INVITE support

VoIP (Voice over IP) Service

- **Voice Codec**
  - **G.711 A-Law, G.711 U-Law**
  - **G.726 r16, G.726 r32**
  - **G.729A**
  - **G.723.1 r63, G.723.1 r53**
  - **VAD (Voice Activity Detection) function support**
  - **DTMF relay support (H.323, SIP, MGCP common) based on RFC2833**
- **RTP**
  - **Redundant RTP packet transmission in case of severe packet loss**
  - **Dynamic jitter buffer management and RPT packet jitter and loss compensation with heuristic & DSP error concealment**
  - **Static jitter buffer setting support**
  - **Voice frame per RTP packet number control for each codec**
  - **In-band ring-back tone support**
  - **Virtual ring-back tone support**
  - **Tone parameter change support**

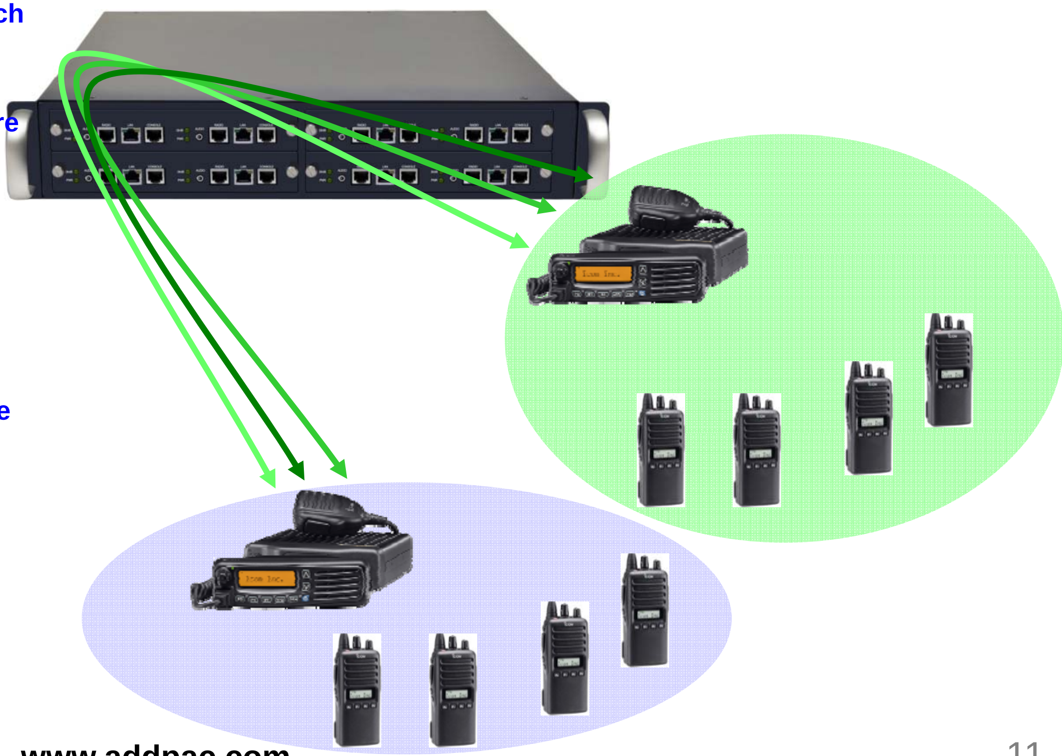


VoIP (Voice over IP) Service

AP-LMR2000 LMR Gateway

- **VoIP Call Controls**
  - **Hot line connection function with PLAR (Private Line Auto Ring Down)**
  - **Leased line emulation function**
  - **Connection monitoring function**
  - **Fault tolerant with Redundancy and Call Distribution among Gateways for load balancing**
  - **Call attempt with IP address**
  - **H.323, SIP, MGCP inbound call connection for each voice port**
  - **Multiple E.164 setting for one voice port**
  - **One E.164 or digit pattern can be assigned to more than one voice port**
  - **Hunting with Longest match/ priority/ sequence/ random**
  - **One stage call setup by Digit forwarding**
  - **Call barring with specific digit patterns**
  - **Calling and called number conversion for PSTN outbound calls**
  - **PSTN rerouting in case of VoIP call attempt failure**

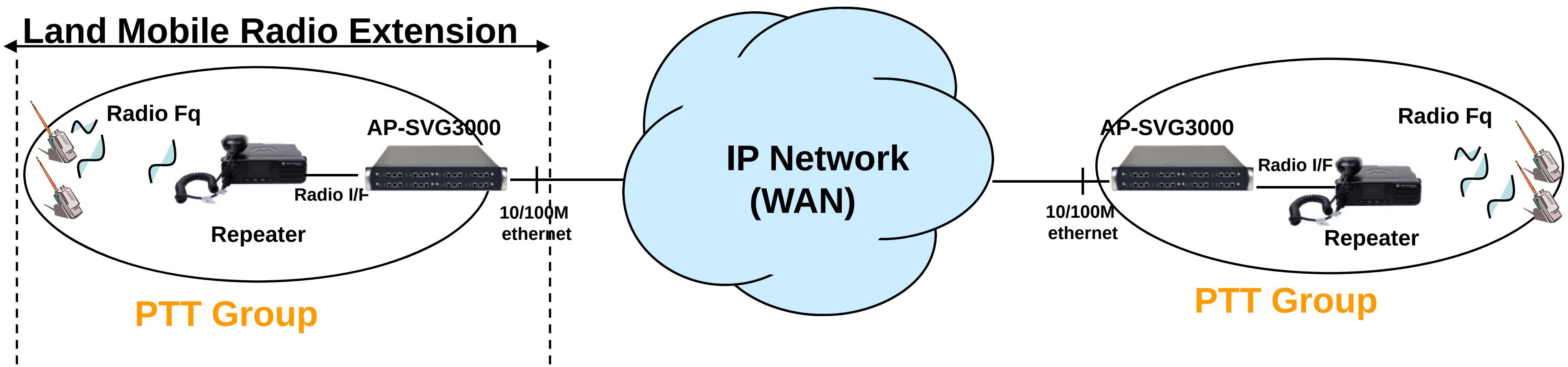
- **VoIP Call Controls (cont.)**
  - **Call transfer for internal calls**
  - **Call pickup for internal calls**
  - **Calling and called number conversion for VoIP outbound calls**
  - **Calling and called number conversion for VoIP inbound calls**
  - **Fax broadcasting call control**



STT VoIP Gateway Service Mode

RoIP Peer to Peer Service Mode

STT VoIP Gateway to STT VoIP Gateway Service Mode

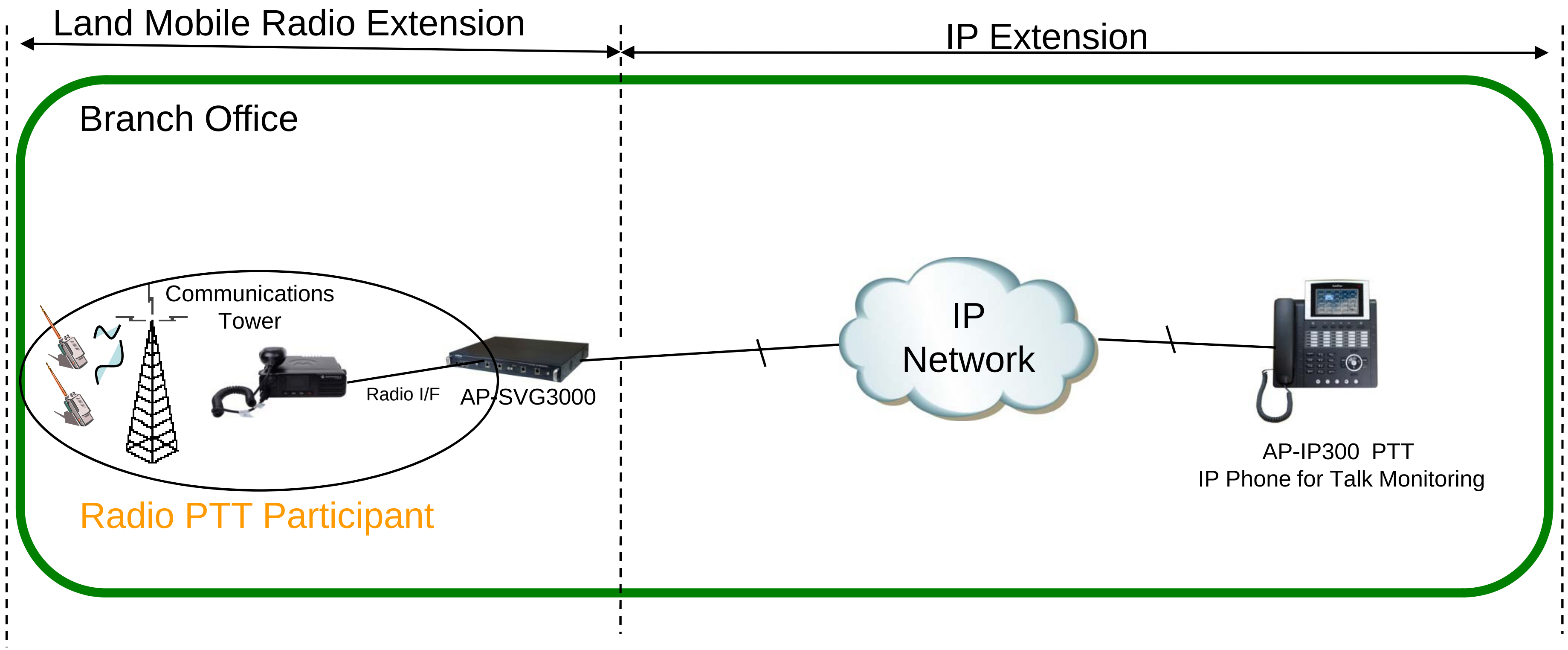


Radio Frequency A

Radio Frequency B

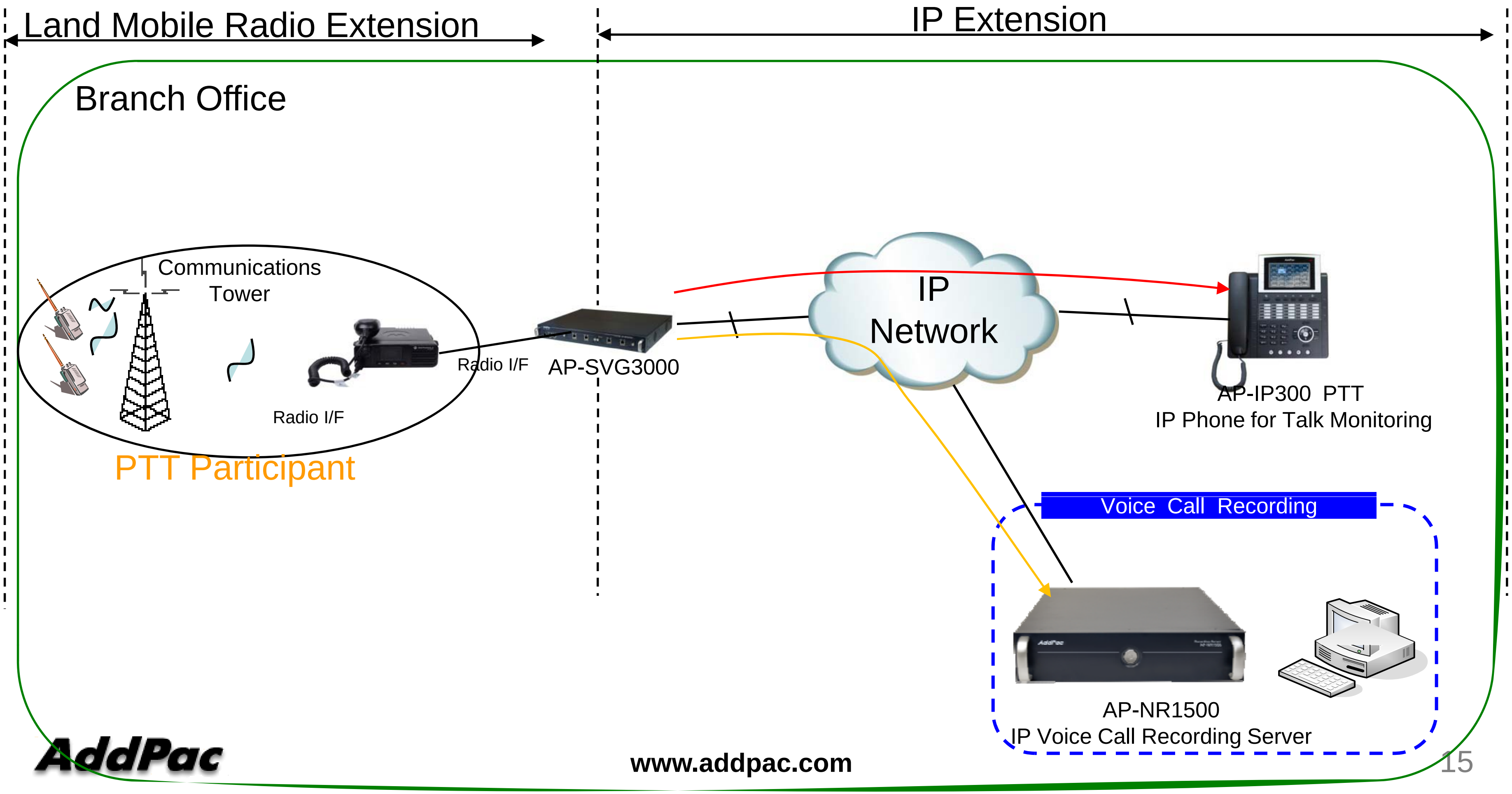
Radio Talk Monitoring in IP Network

- STT VoIP Gateway to IP Phone Service Diagram

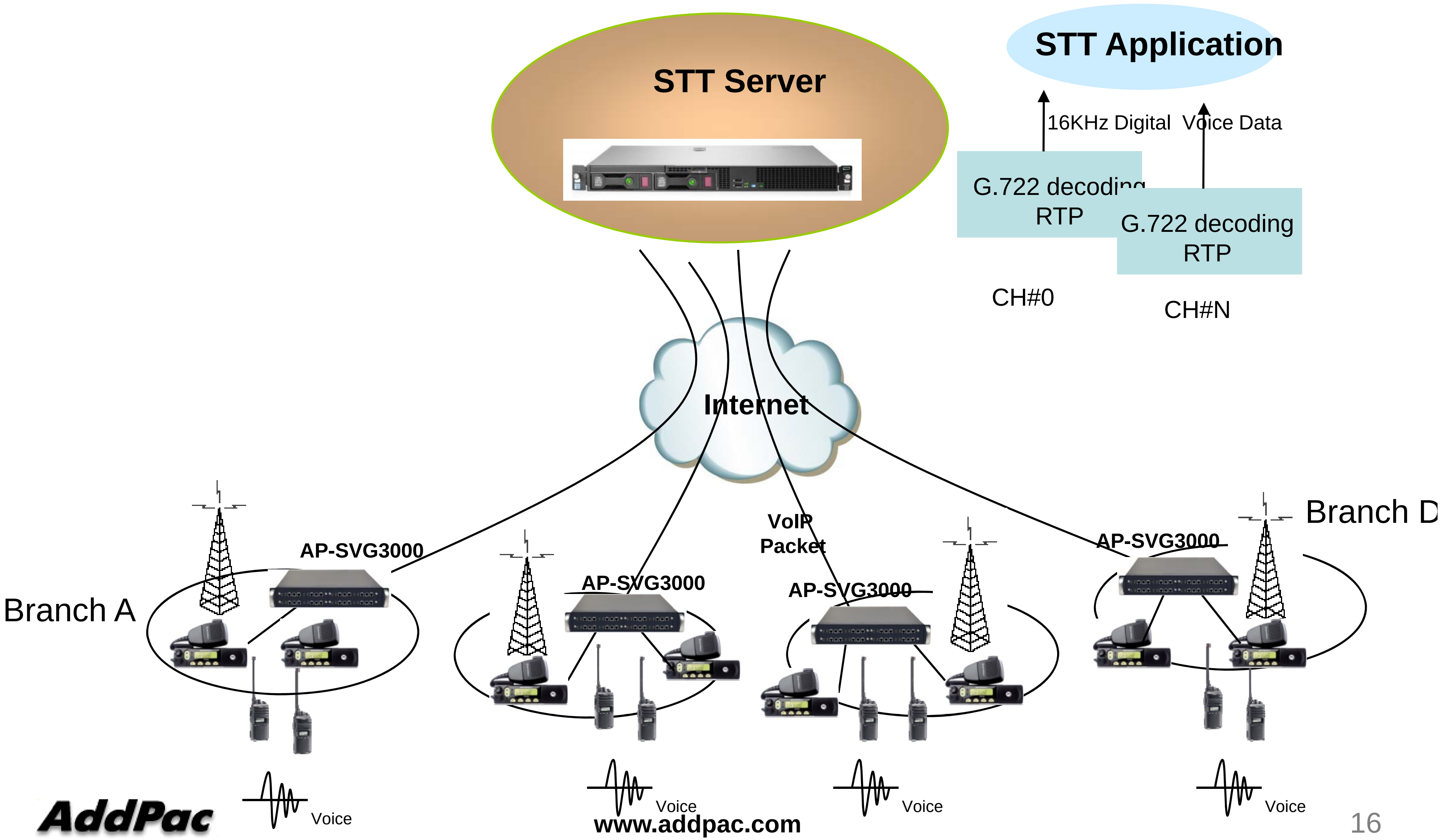


Radio Talk Recording in IP Network

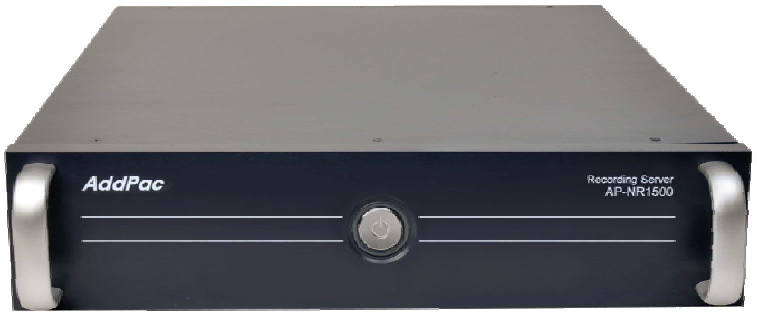
- STT VoIP Gateway to Voice Recording Server Service Diagram



Radio Talk STT Application



AP-NR1500
IP Voice Call Recording Server



Product Overview

AP-NR1500 IP Voice Call Recording Server

- IP based Network Voice Call Recording Server
- Linux Operating System
- Powerful Management and User Friendly Features
- High-performance Voice Recording Service
- External AddPac IP Terminal (Ex: IP Phone, IP Intercom, IP Emergency Phone) Interworking Support
- Firmware Upgradeable Architecture
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- Up to Two(2) 3.5Inch SATA Hard Disk Interface Support
- Two(2) USB Interface Support
- One(1) RS232C Console Interface

Hardware Specification

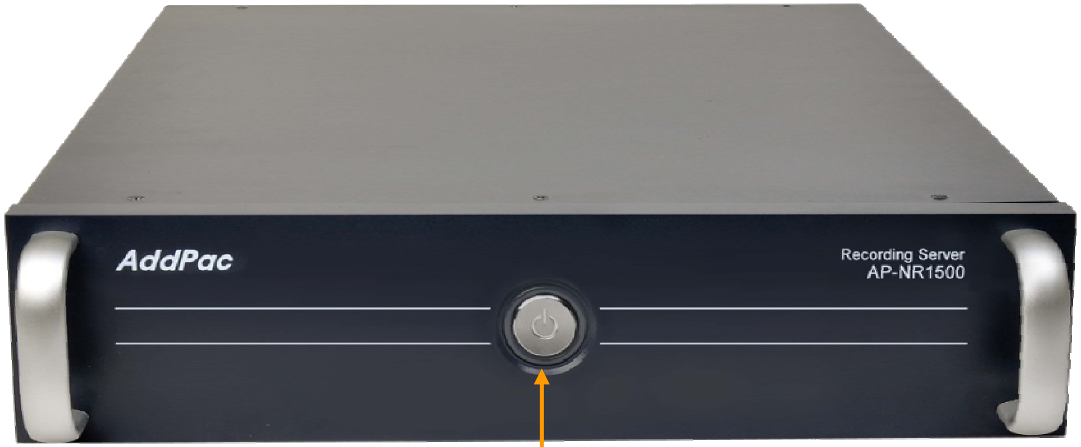
AP-N1500 IP Voice Call Recording Server

- High Performance Computing Power
- Network Interface
  - One(1) 10/100/1000Mbps Gigabit Ethernet Port
- Two(2) USB 2.0 Interfaces for Mouse, Secondary Storage, etc
- One(1) RS232C Console Interface (RJ45)
- Up Two(2) SATA type Hard Disk (4~8 Tera HDD Capacity)
- Power On/Off Soft Switch with LED Indication Lamp (Front Side)

Hardware Specification

AP-NR1500 IP Voice Call Recording Server

AP-NR1500 Front Side



Power On/Off Switch with LED Indication LAMP

Hardware Specification

AP-NR1500 IP Voice Call Recording Server

AP-NR1500 Back Side

Power ON/OFF Hard Switch

Power Input

Gigabit Ethernet Interface

RS232C Console Interface

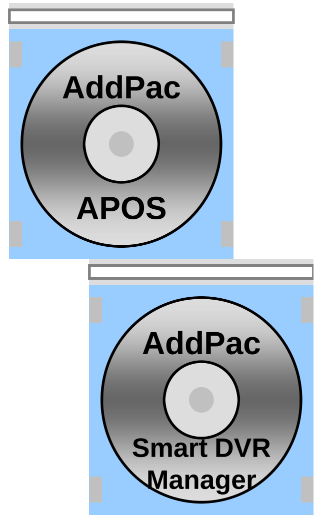
Cooling FAN

USB Interface for Mouse, Storage, etc

Software Service

AP-NR1500 IP Voice Call Recording Server

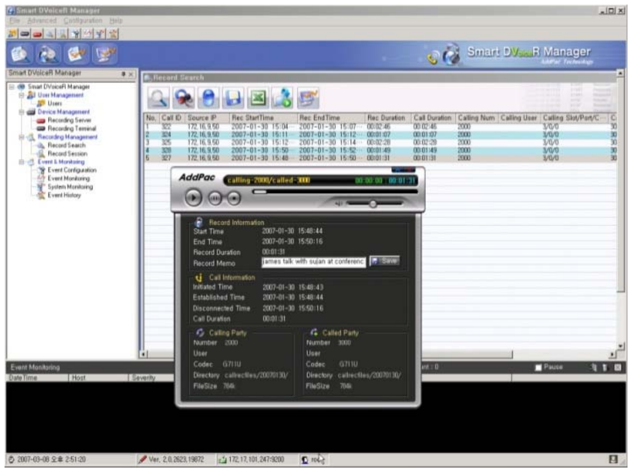
- **Built-in AddPac Internetworking Software**
  - Scalability, Functionality, and Stability Features
  - Advanced Network DV$_{\mathbf{oice}}$R Recording & Live Streaming Features
  - QoS Control Features
- **Firmware Upgradeable Architecture**
- **Industry Standard Network Protocol Features**
- **Highly User Friendly Management Features**
  - PC based Window Program
  - Smart DV$_{\mathbf{oice}}$R Manager



Smart DVoiceR Management Program

AP-NR1500 IP Voice Call Recording Server

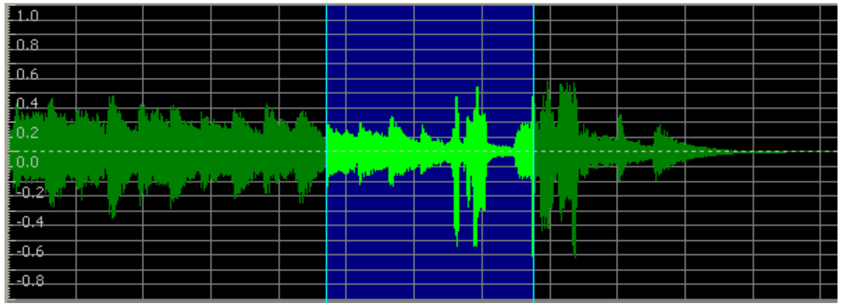
- Call History Management (search/modify/delete/save)
- Media Play Management (Play/Stop/Seek/Pause)
- Live Call List Management, Live Call Monitoring
- Local Backup (File Manager Support, PC HDD, DVD) and Local Play
- User Management (registration/modify/delete/search)
- Server Status (CPU/Memory/HDD) & Event Monitoring
- Waveform Analyzing Function
- Recording Source Management (VoIP Gateway, IP Phone, etc)
- Live Recording Board



Application Service

AP-NR1500 IP Voice Call Recording Server

- Call Center Application
- Enterprise Application
- All IP Network Application



Thank you!

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