AP-LMR3000 LMR(Land-to-Mobile Radio) Gateway

High Performance RoIP (Radio over IP) Solution

SIP Call Manager + PTT Server Service Features







AddPac Technology

Sales and Marketing

Contents

- Product Overview
- SIP Call Manager Service and Features
- RTP Proxy Service
- User Presence Service
- Network Service and Features
- PTT & RoIP Service
- Network Diagram

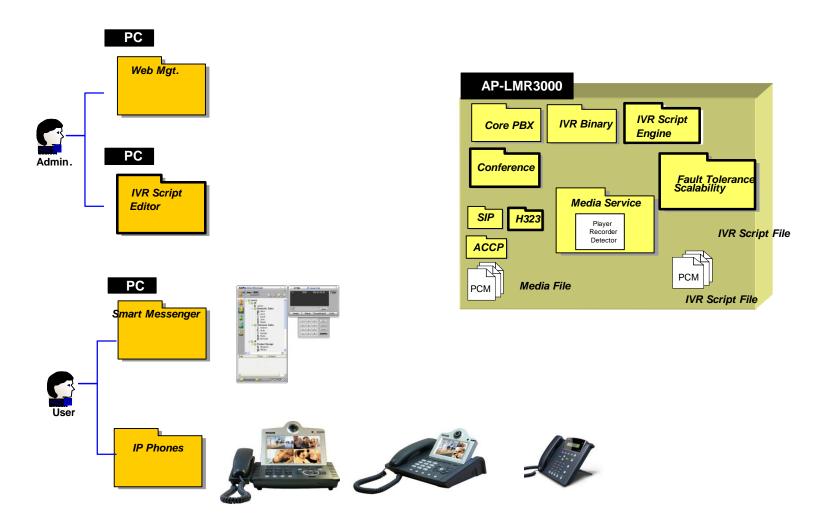


Product Overview

- Land to Mobile Radio Gateway Service Support
- Radio over IP Service Support
- Radio Systems(Motorola, etc) are directly Extended to IP Network
- SIP Call Manger Support
- PTT Server Support for 1:N PTT Service
- High Performance RISC & Programmable DSP Architecture
- Two(2) 10/100Mbps Fast Ethernet (IP Share ,etc)
- Two(2) Module Slots for Radio Interface (E&M, Radio2, etc)
- VoIP Codec: G.711/G.726/G.723/G.729, VAD, etc.
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- SIP/H.323 Dual Concurrent Signaling Protocols
- Firmware Upgradeable Architecture
- Advanced Voice QoS Mechanism
- Powerful Smart Web based Management
- Command Line Interface Support (RS232C Console or Telnet)



IP-PBX Software Components





Signaling Server

- SIP Application Server, Proxy, Registrar and Location Server (RFC3261)
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
 - IP UA Client Role for Registering to ITSP SIP Server
 - H.323 Gatekeeper Client Role for Registering to ITSP H.323 Gatekeeper Server

IVR & Auto Attendant

- Default Auto Attendant Support
- Interactive Voice Response (IVR)
 - Provides with GUI-based Smart IVR Scenario Editor
 - Upload/Download Scenario by Smart IVR Scenario Editor
 - Supports Multiple Concurrent Scenarios
 - Supports Recordable IVR Prompts

Voice Mail

- Support Voice Mail with IVR
- Access from Remote Site via Trunk Support
- Voice Mail Notification Support



Number & Call Routing

- Trunk Hunting by Preference or Sequential
- Call Hunting by Preference, Simultaneous, Random
- Call Hunting by Chained Hunting Group
- Partition for Address Grading
- Call Class for Call Access Control
- Number Translation Rule for Inbound/Outbound Call
- Centrex with Prefix Support
- Multiple Shared Devices with One Number
- Multiple Numbers on One Device
- Individual Call Park within Park Number Pool
- Group Call Park within a Group or Other Group
- Call Pickup of Ringing Call of Same Group or Other Group
- Call Pickup of Parked Call
- Call Transfer Blind, Consult
- Call Forwarding Unconditional, Busy, No Answer, Voice Mail
- Call Waiting
- Call Swaping
- Call Hold



IP-PBX Advanced Features with AddPac IP Phones

- Multiple Call Handling with Call Status and Calling Line Number and Name
- Plug and Play with Auto Discovery Function
- Softkey Map Download and Control
- Time and Date Setting
- Voice Mail List View
- Parked Call List View
- Call Forward Setting
- Recent Call List View
- Calling Number and Name Identification
- Individual Call Park within Park Number Pool by Softkey
- Group Call Park within a Group or Other Group by Softkey
- Call Pickup of Ringing Call of Same Group or Other Group by Softkey
- Call Pickup of Parked Call by Softkey
- Call Transfer Blind, Consult by Softkey
- Call Waiting Indication
- Call Swaping by Softkey
- Call Hold by SoftKey
- Conference Control



User & Device Management

- LDAP (Light weight Directory Access Protocol) Support
 - Supports Hierarchical Organization
- Auto Discovery of IP Phones & Video Phones
- Monitoring Status of Phones

Miscellaneous*

- Distinctive Ring by Calling User
- Auto Config & Upgrade
- Personal Directory
- Downloadable Ring
- Do not Disturb



Conference

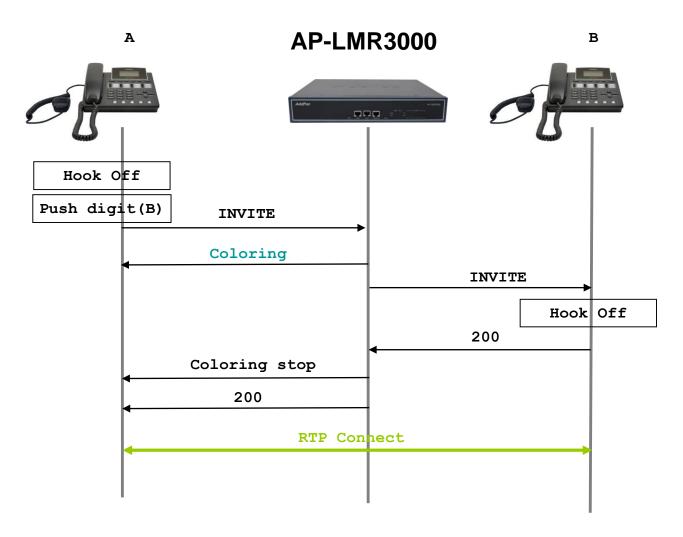
- G.711 (4-party Conference, 2 session): Basic
- G.711/G.729/G.723 (4-party Conference, 2session) Internal MCU Module: Option
- Ad-hoc Conference
- Dial-Out Conference
- Meet-me Conference
- Multiple External MCU support(Video, Audio, etc): AddPac AP-MC1000, etc
- Conference Chair and Participants Management

Music & Announcement

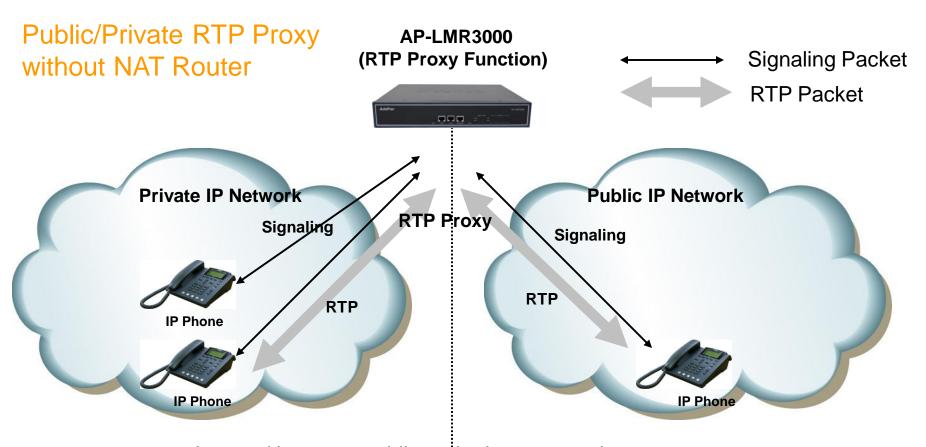
- Music on Hold
- Replaceable Announcements
- Dialing Music / Tone Service



SIP based Basic Call Scenario

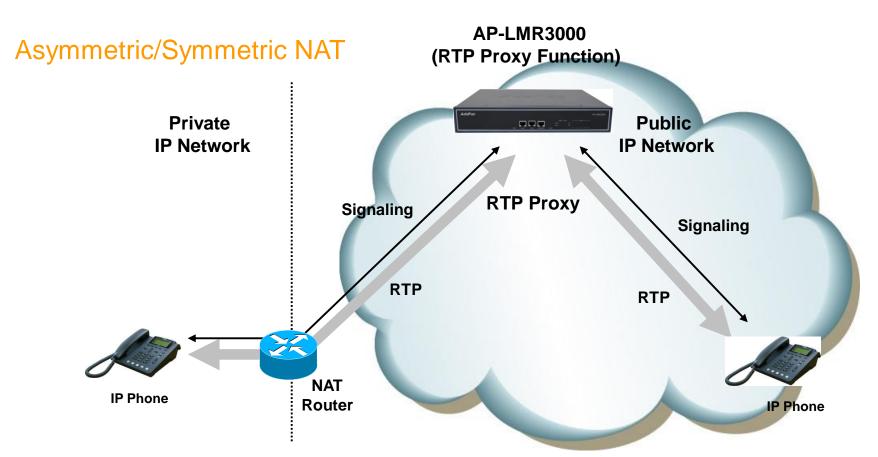






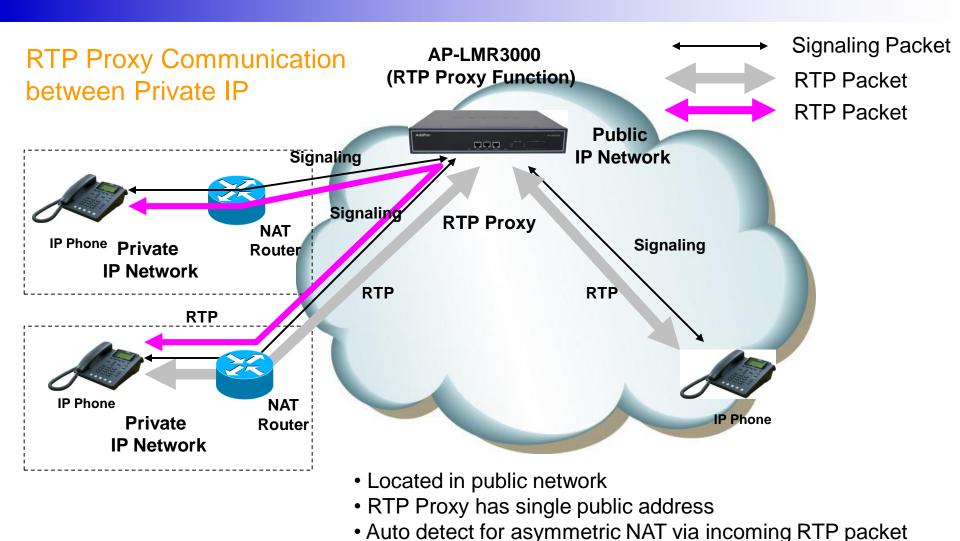
- Located between public and private network
- AP-LMR3000(Call manager + RTP proxy) has public and private address
- AP-LMR3000 determine that the call is internal or external





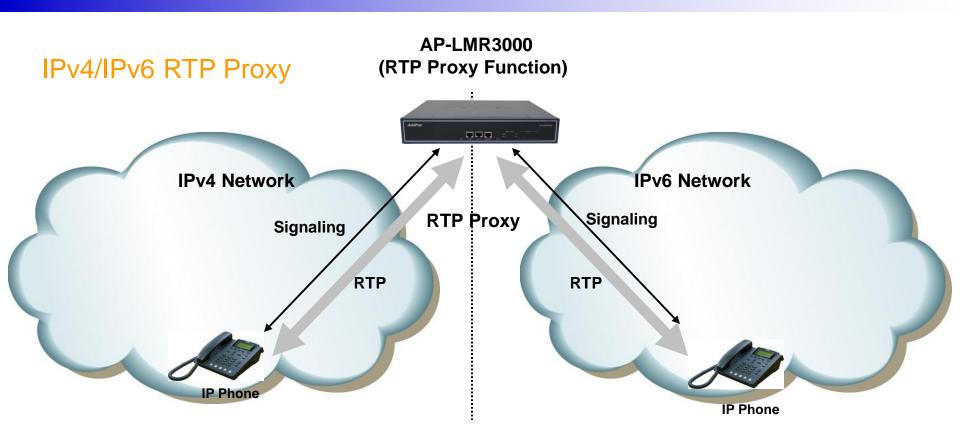
- Located in public network
- RTP Proxy has single public address
- Auto detect for asymmetric NAT via incoming RTP packet www.addpac.com





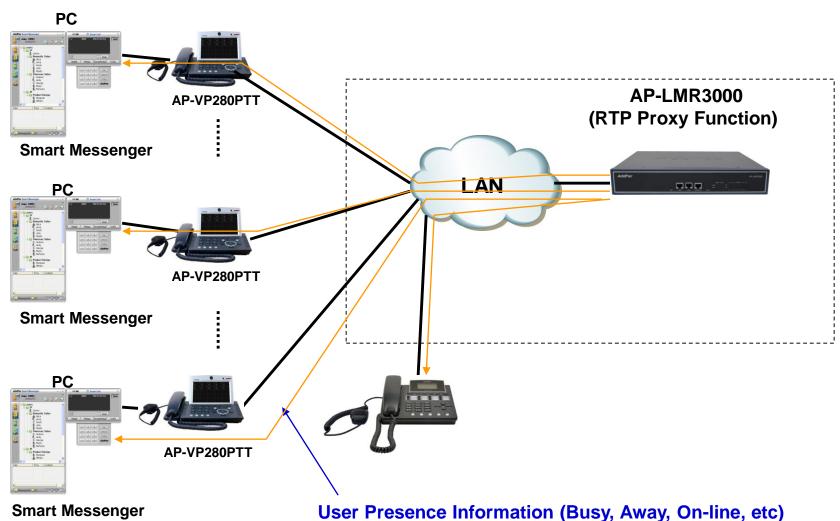


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• AP-LMR3000 (Call manager + RTP proxy) has IPv4 and IPv6 address

User Presence Service for UC



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User Presence Information (Busy, Away, On-line, etc)

Basic Network Protocols

- ARP, IP, IPv6, TCP, UDP, ICMP, ICMPv6, SCTP, IGMP, MLD

Routing Protocol

- IPv4 : Static

- IPv6 : Static

Service Protocol

- FTP, Telnet, TFTP, DHCP Server/Relay, SNMP Server
- CDP (Cisco Discovery Protocol)
- DNS Resolver , DDNS(nsupdate)
- Bridge
- Syslog
- IP/IPv6 policy control (QoS)
- VPDN (Virtual Provate Dial-up Network : L2TP Server)



IPv4/IPv6 Interworking

- NAT/PAT for IPv4
- IP connect (formerly ip-share) and device cascade for IPv4
- IP/IP, IP/GRE tunneling
- NAT-PT
- 6to4, Autoconfig tunneling

IPv4 Address Configuration

- Fixed (Static)
- DHCP
- PPPoE

IPv6 Address Configuration

- Fixed (Static)
- EUI-64
- Autoconfig (Neighbor Advertisement and Solicitation)



Miscellaneous

- Cisco Style CLI
- Standard & Extended IPv4/IPv6 Access List
- Multi-level User Account Management
- IP accounting
- fsh (Embedded file system shell)
- STUN Client



SNMP MIBs

- MIB-II
- RMON MIBs (Statistsics, History, Alarm, Hosts Group)
- RFC2465 Management Information Base for IP Version 6: Textual Conventions and General Group
- RFC2466 Management Information Base for IP Version 6: ICMPv6 Group
- RFC2452 IP Version 6 Management Information Base for the Transmission Control Protocol
- RFC2454 IP Version 6 Management Information Base for the User Datagram Protocol
- AddPac Enterprise MIBs
- etc

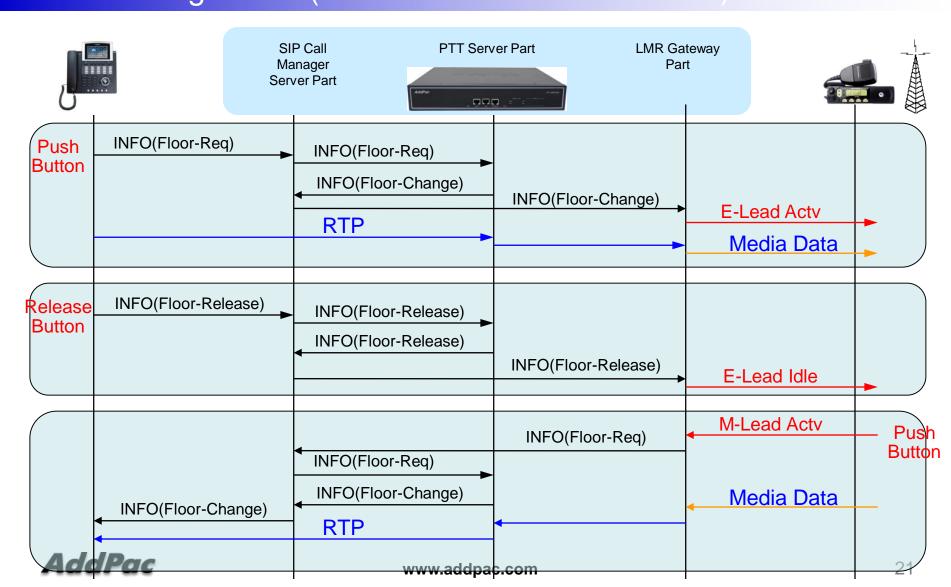


PTT Service

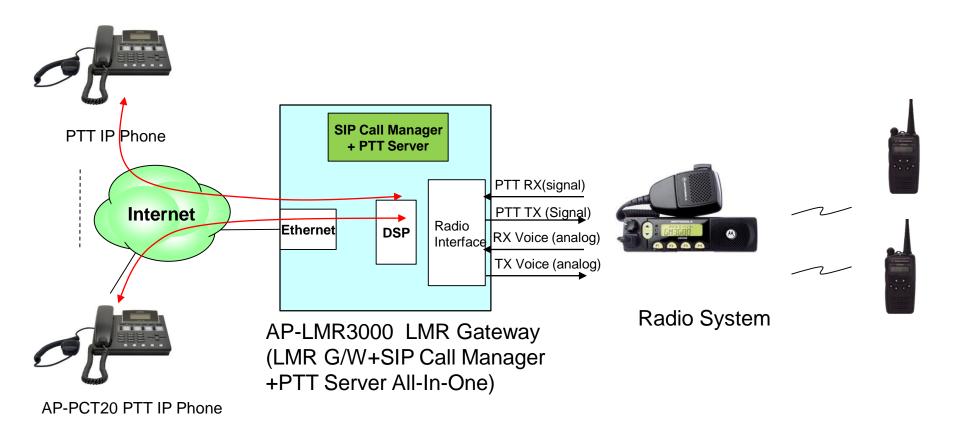
- IP based PTT Service Support
- Dial-Out based PTT Service Support
 - Multi-Session, Multi-Group
 - PtP (Point-to-Point) Service
- Advanced PTT Server Features
 - 1:1 PTT
 - Group PTT
 - Emergency PTT with Alarm Notification
- Emergency PTT Service Support
- IP-PBX Interworking Service
- IP Terminal Interworking Service (Wi-Fi Phone, IP Phones, Soft Phone, Smart Phone Application)
- PTT Solution with Outstanding Network Service Capability



RoIP System Message Flow (SIP Call Manager + PTT Server Integrated Server Model) SIP Message Flow (Floor Control : Push To Talk)



Network Diagram





Thank you!

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