

AP-WBS Window based IP Broadcasting Server

Primary-Secondary IP Broadcasting





AddPac Technology

Sales and Marketing

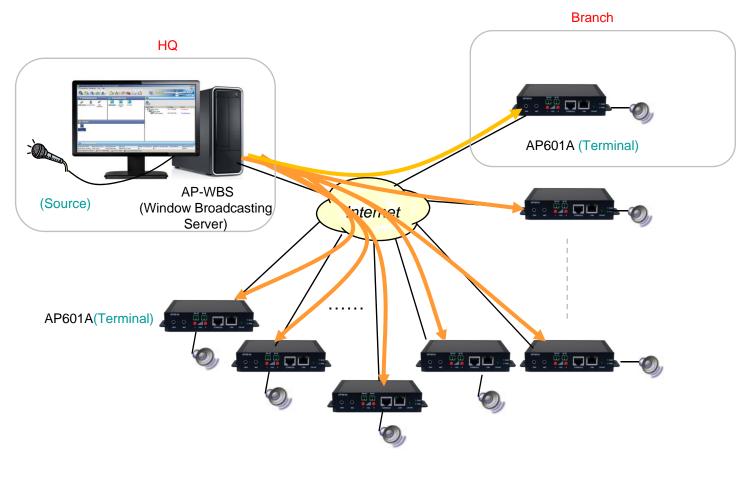
Contents

- Network Diagram
 - General IP Broadcasting Service
 - HQ-Branch Primary Secondary IP Broadcasting Service
- Signal Flow Diagram
- WBS Product Overview
 - Main Features
 - Software Requirement
 - Hardware Requirement
 - GUI examples
- AP601 IP Paging Terminal

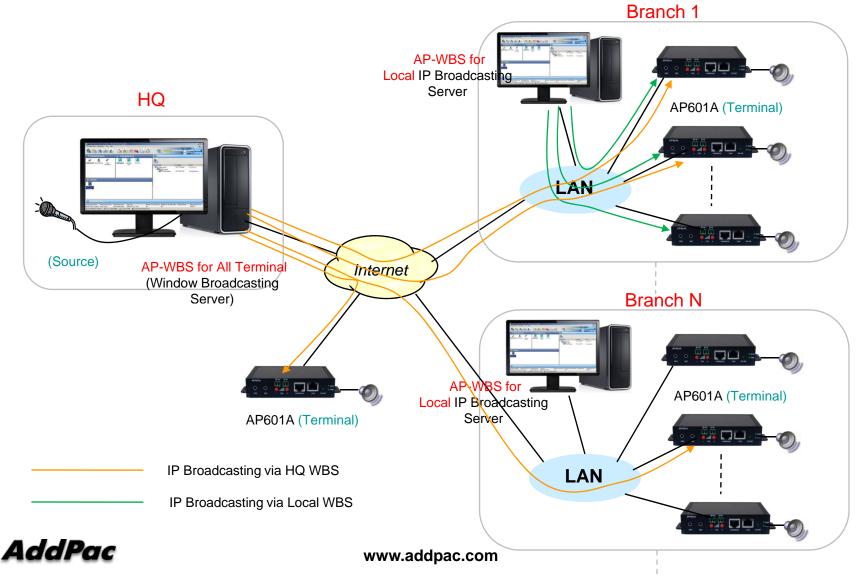
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Network Diagram (General IP Broadcasting)

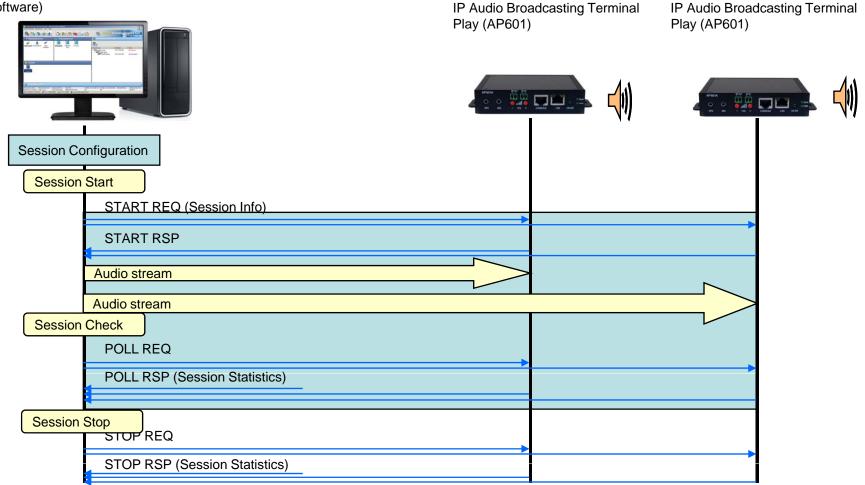


Network Diagram (HQ, Branch Primary Secondary IP Broadcasting)



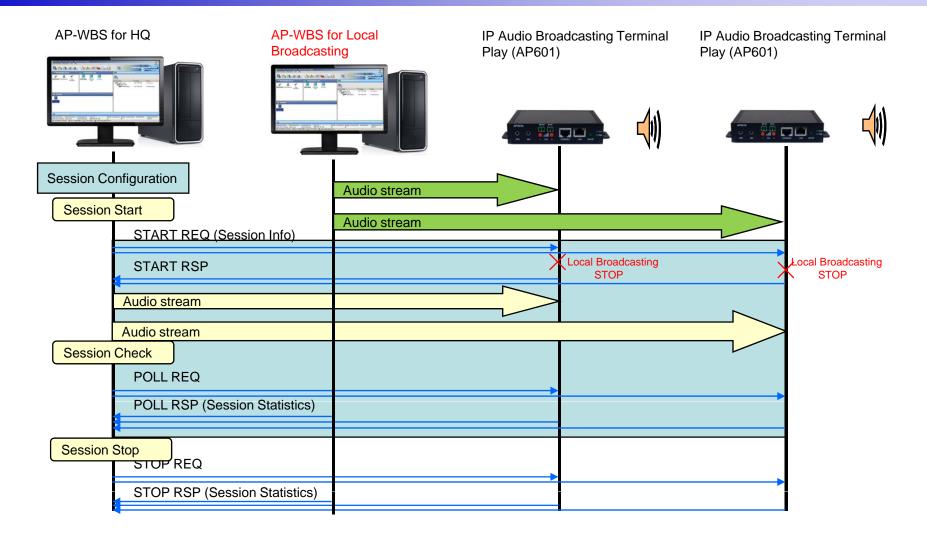
Signal Flow Diagram (General IP Broadcasting)

AP-WBS (IP Audio Broadcasting Server + Management Software)



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Signal Flow Diagram (HQ, Branch Primary Secondary IP Broadcasting)



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AP-WBS Product Overview



Contents

- Main Features
- Software Requirement
- Hardware Requirement
- GUI examples

Main Feature

- Window based IP Broadcasting Server with Management Software
- Unicasting/Multicasting Service Support
- RTP (Real-time Transmission Protocol) Support
- Various Voice/Audio Codec Support (G.711, SPEEX, etc)
- User Register and Access Restriction Management
- Broadcasting Device Management
- Broadcasting Source, Group, Favorite List Management
- Reserved Broadcasting and Time Signal Broadcasting
- TTS Broadcasting
- IP Broadcasting Terminal Status Check, etc
- Search Event Log



Software Requirement

- 1. Database : MySQL Server 5.0
- 2. e-MBMS Server
 - Java JRE 1.5
 - e-MBMS Server
- 3. e-MBMS Client
 - e-MBMS Client



Hardware Requirement

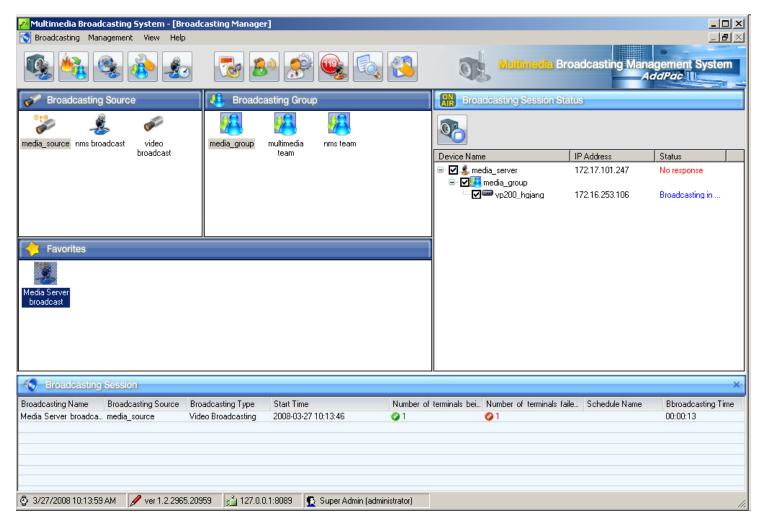
1. e-MBMS Server H/W Requirement

- CPU: Intel Pentium4 1GHz (minimum)
- MEMORY: 512Mbyte (minimum)
- HDD: 40GB
- OS: Windows XP, Windows 2000, Windows 7..

2. e-MBMS Client H/W Requirement

- CPU: Intel Pentium Series
- MEMORY: 256Mbyte (minimum)
- OS: Windows XP, Windows 2000, Windows 7...

WBS GUI Initial Screen



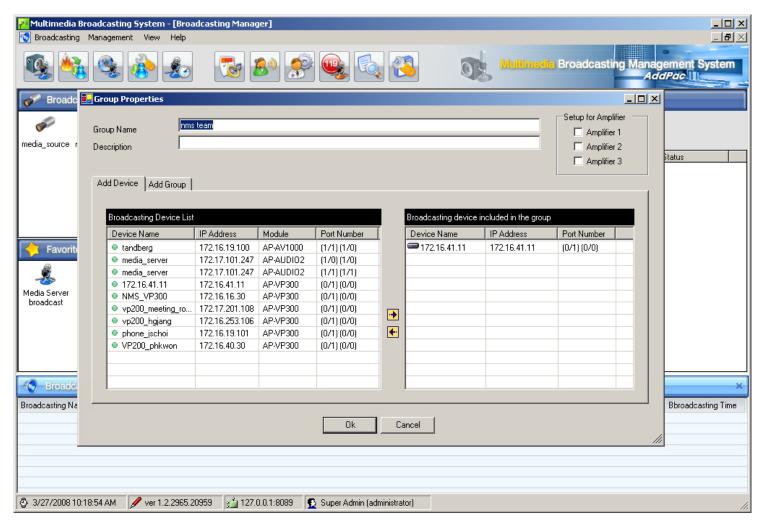


Broadcasting Device Management

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Broadcasting Group Management





User Management

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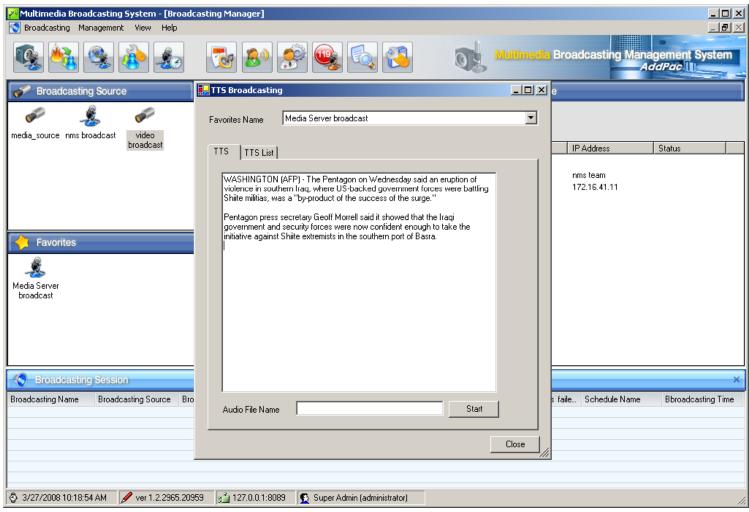


Reserved Broadcasting Management

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TTS Broadcasting





AP601 Product Overview





Contents

- Product Overview
- Hardware Specification
- APOS[™] Service Features
- IP Audio Broadcasting Signal Flow
- Unicast & Multicast Service Feature
- IP Voice Broadcasting Solution
- Application Area
- Ordering Information



Product Overview

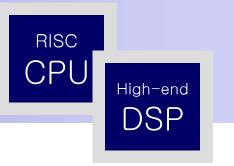
AP601 IP Paging Terminal

- IP based Voice Broadcasting Terminal Solution
- Hardware Architecture for Voice Broadcasting Terminal Service
- Remote Broadcasting Service at terminal side
- High Quality Voice Codec Support (High Quality Codec, G.711, etc)
- RTP/UDP Protocol Support
- Unicast and Multicast Broadcasting Scheme
- Enhanced MBMS (Multimedia Broadcasting Management System) Support
- WBS (Window based Broadcasting Management System) Support
- One(1) channel SPK/MIC Port
- Option (AP601A) : AMP. Built-in
- High-Quality Audio/Voice Service
- Firmware Upgradeable Architecture
- Broadcasting Solution with Outstanding Network Service Capability
- External Power Supply

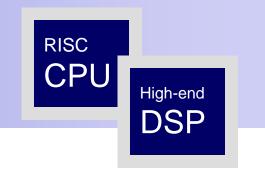


AP601 IP Paging Terminal

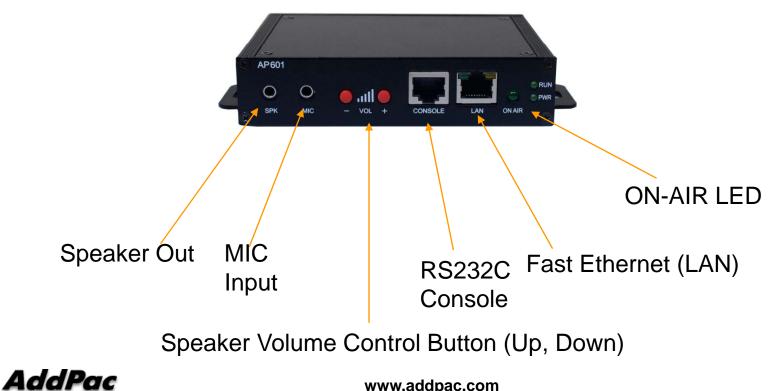
- RISC Microprocessor Computing Power
- High-end Programmable DSP Hardware Architecture
- High Quality Audio Encoding/Decoding Service
- One(1) 10/100Mbps Fast Ethernet (RJ45)
- One(1) RS-232C Interface (RJ45)
- SPK/MIC Audio Interface Support
- Volume Control Button Support (Up, Down)
- External Power Supply Support
- Option : 30Watt Digital AMP. Built-in (AP601A)



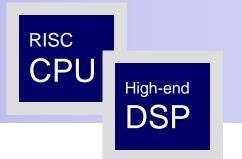
AP601 IP Paging Terminal

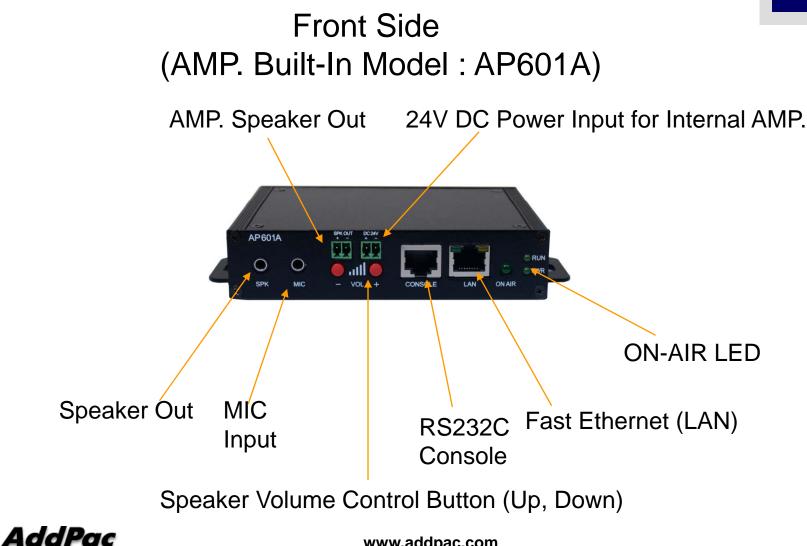


Front Side

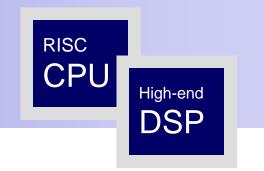


AP601A IP Paging Terminal





AP601 IP Paging Terminal

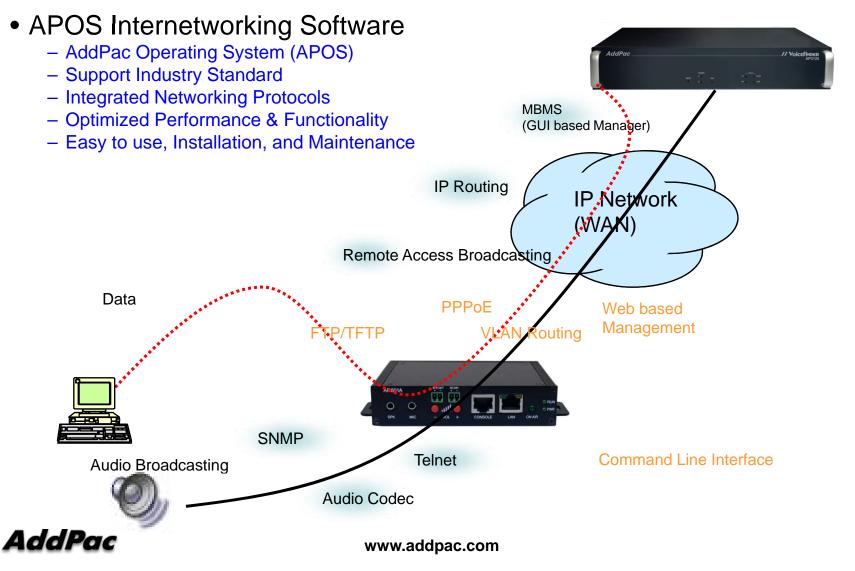


Back Side



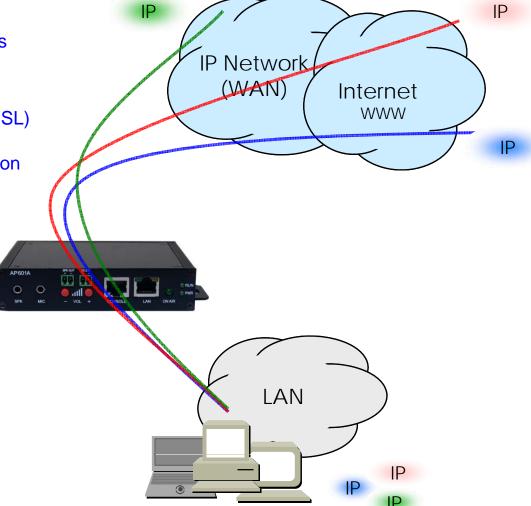


AP601 IP Paging Terminal



AP601 IP Paging Terminal

- IP Routing Protocols
 - Multi-protocol Internetworking Services
 - Static & Default IP routing
- WAN Protocols
 - Point-to-Point Protocol (PPPoE for ADSL)
 - IEEE 802.3 Ethernet
 - PPTP support for secure communication



AP601 IP Paging Terminal

Network Managements

- Standard SNMP Agent (MIB v2) Support
- Remote Management using Console, Telnet
- Web based Management using HTTP Server Interface

• Security Functions

- Standard & Extended IP Access List
- Enable/Disable for Specific Network Protocols
- Multi-level User Account Management
- Auto-disconnect for Telnet/Console Sessions
- PPP User Authentication Supports (PAP & CHAP)

• Operation & Managements

- System Performance Analysis for Process, CPU, Connection Interface
- Debugging, System Auditing, and Diagnostics Support
- System Booting and Auto-rebooting with Watchdog Feature
- System Managements with Data Logging
- IP Traffic Statistics with Accounting



AP601 IP Paging Terminal

Network Protocols

- DHCP Server & Relay Functions
- Network Address Translation (NAT) Function
- Port Address Translation (PAT) Function
- Transparent Bridging (IEEE Standard) Function
 - Spanning Tree Bridging Protocol Support
 - Remote Bridging Support
 - Concurrent Routing and Bridging Support
- Cisco Style Command Line Interface (CLI)
- Network time Protocol (NTP) Support

AP601 IP Paging Terminal

- Audio Codec
 - G.711, G.726, Audio Codec

• RTP Protocols

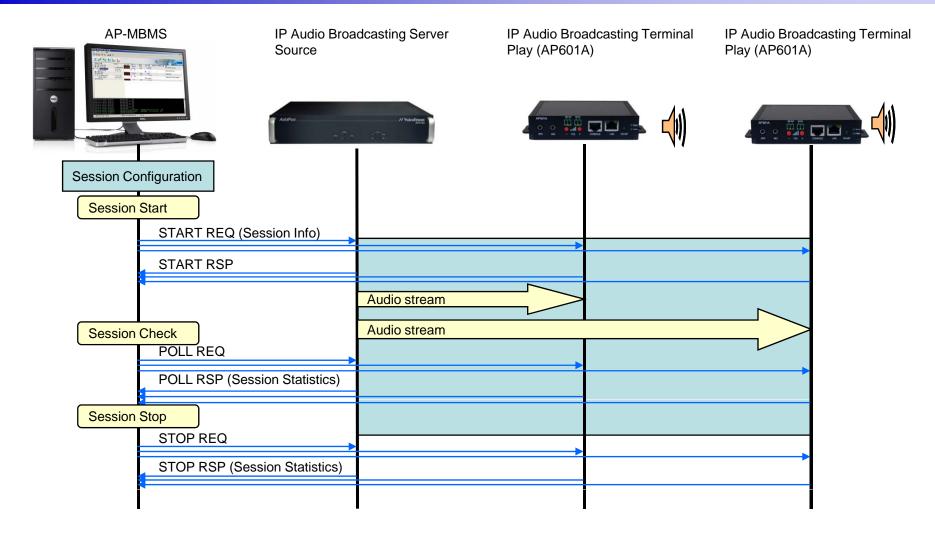
- Redundant RTP packet transmission in case of severe packet loss
- Dynamic jitter buffer management and RTP packet jitter and loss compensation with heuristic & DSP error concealment
- Static jitter buffer setting support
- Voice frame per RTP packet number control for each codec

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IP Broadcasting

IP Audio Broadcasting Signal Flow (CASE1)

AP601 IP Paging Terminal

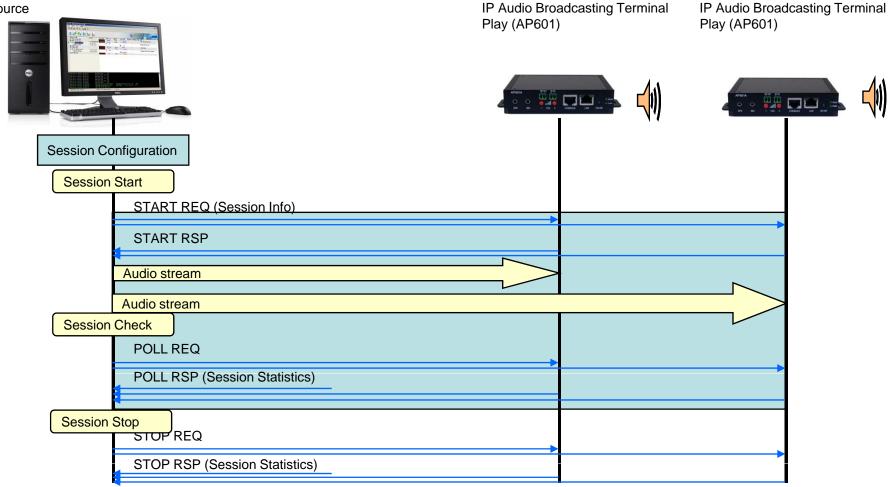


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IP Audio Broadcasting Signal Flow (CASE 2)

AP601 IP Paging Terminal

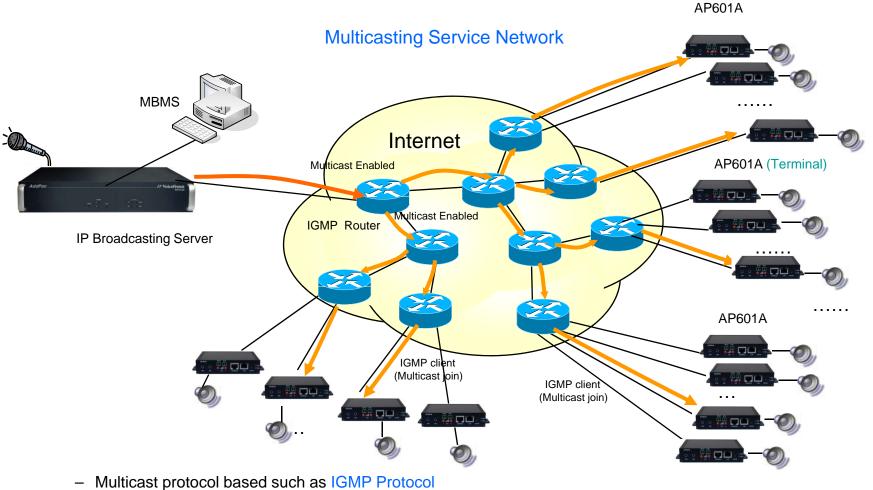
IP Audio Broadcasting Server + Management Source



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Multicast Service Network Diagram

AP601 IP Paging Terminal

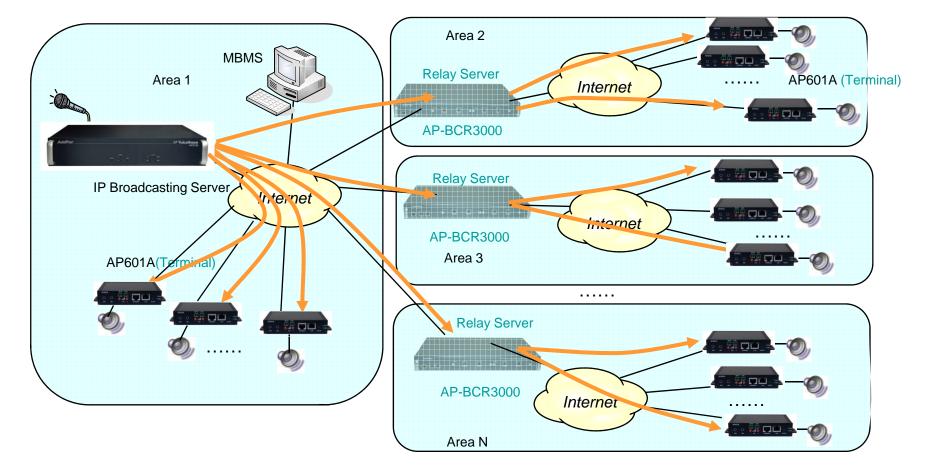


- Available to broadcast multi destination with single channel bandwidth



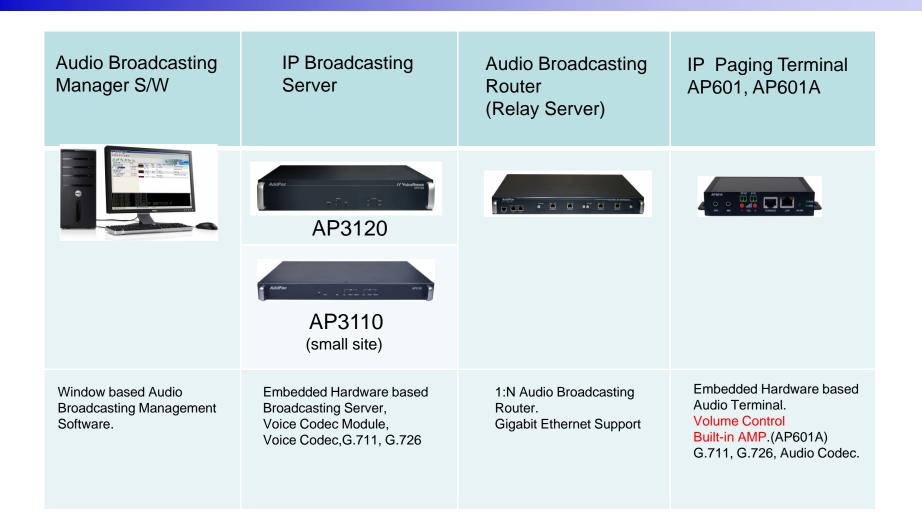
Unicast Service Network Diagram

AP601 IP Paging Terminal



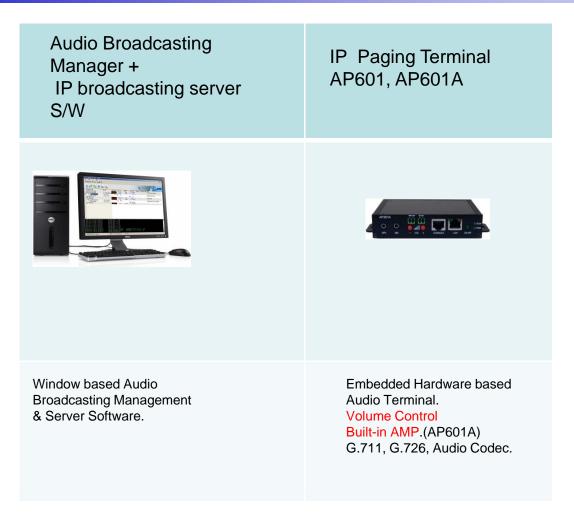
Unicasting Service Network

IP Voice Broadcasting Solution



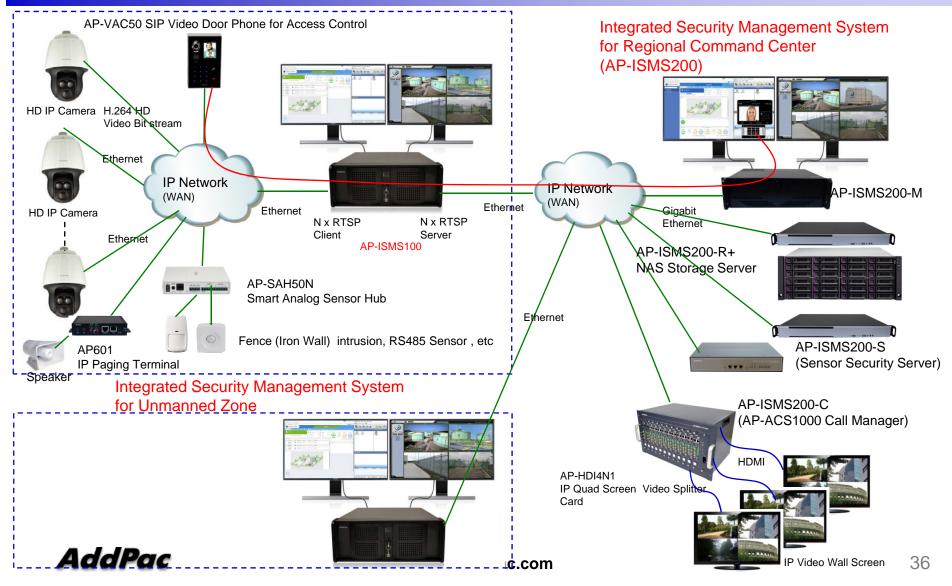


IP Voice Broadcasting Solution (Simple Application for Small Site)





Application Service (Integrated Security Management System)



Ordering Information

- AP601, AP601A IP Paging Terminal Hardware
 - RISC Microprocessor with High-end Programmable DSP Architecture
 - One(1) 10/100Mbps Fast Ethernet
 - One(1) RS232C (RJ45) Port
 - SPK/MIC Interface
 - Volume Control Button (UP, DOWN)
 - ON-AIR LED
 - Option : AP601A AMP.built-in
 - Including Network Cable Set & External Power Supply, etc.
- Built-in APOS Internetworking Software for AP601, AP601A
- Including 1 Year Hardware Warranty
- Product Documents
 - Install and Operation Guide (PDF)
- Pricing
 - AddPac Technology Regional Sales Manager
 - Authorized Sales and Marketing Representatives
 - Please Contact www.addpac.com



Thank you!

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