

Remote Broadcasting Controller

High-performance IP Remote Broadcasting Solution



AP-IP300 IP Remote Broadcasting Controller



e-MBMS (enhanced Multimedia Broadcasting Management System)





AddPac Technology

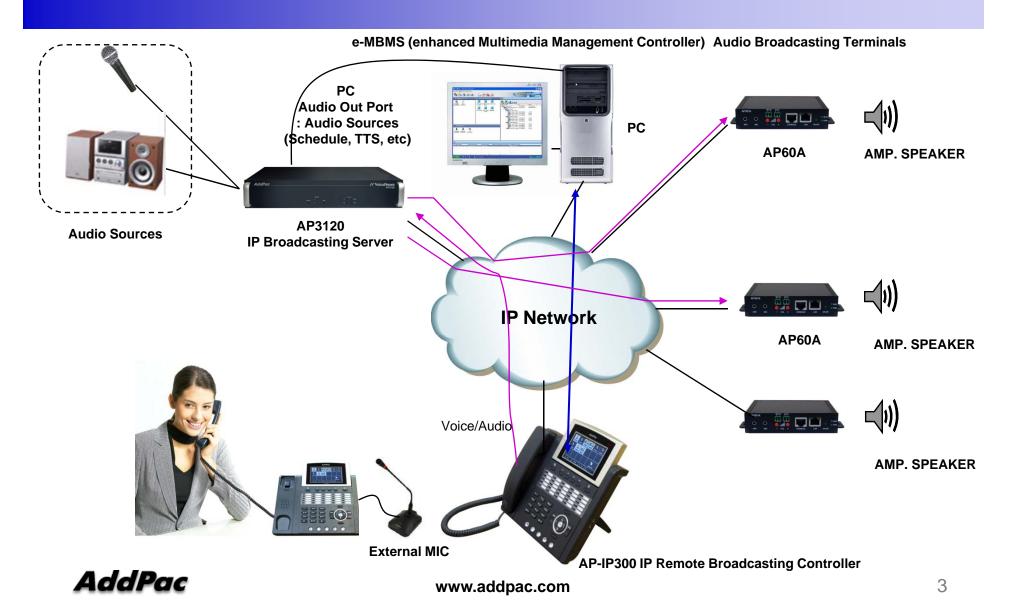
Sales and Marketing

Contents

- Remote Broadcasting Network Diagram : Example
- AP-IP300 IP Remote Broadcasting Controller
- Multiple Remote Broadcasting Service Diagram
- IP Broadcasting Solution
 - e-MBMS Multimedia Broadcasting Management
 - AP3120 IP Paging Server
 - AP601A IP Paging Terminal



Remote Broadcasting Network Diagram



Remote Broadcasting Controller

AP-IP300 High Performance IP Phone

✓ Application Select





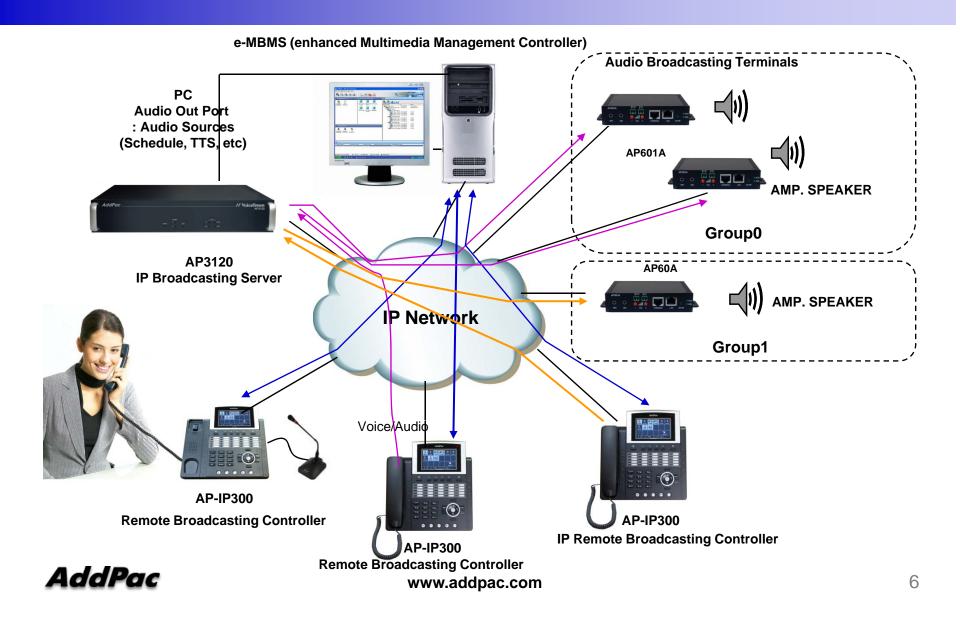
OSD for Group Broadcasting Service

AP-IP300 High Performance IP Phone





Multiple Remote Broadcasting Service Diagram



IP Broadcasting Solution



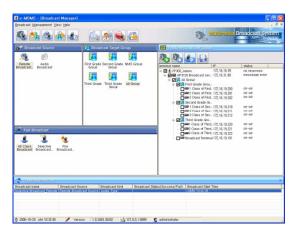
e-MBMS (enhanced Multimedia Broadcasting Management System)





e-MBMS Service Feature

- Client/Server Architecture
- PC based Window Application Program
- User and Group Management
- User Access Management
- Broadcasting Equipment Management (Server/Terminal/Controller)
- Broadcasting Source Management
- Configuration Management
- Session Management
- Schedule Broadcasting Management
- Emergency Broadcasting
- Event Management
- Remote Broadcasting Controller Management
- e-MBMS Redundancy Configuration/Backup
- etc





AP3120 IP Broadcasting Server



Contents

- Product Overview
- Hardware Specification
- APOSTM Service Features
- IP Audio Broadcasting Signal Flow
- Unicast & Multicast Service Feature



Product Overview

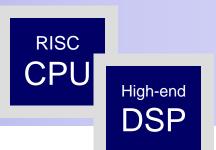
AP3120 IP Paging Server

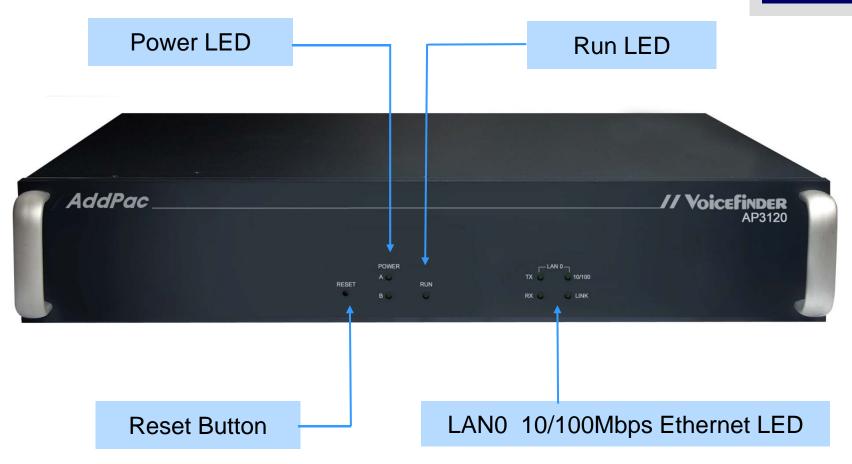
- IP based Broadcasting Service Solution
- Hardware Architecture for Voice Broadcasting Service
- Hardware Modular Architecture for Network Card, Audio Card, etc.
- Embedded System Architecture for System Stability
- Real-Time Operating System
- Remote Broadcasting Service at terminal side
- High Quality Voice Codec Support
- RTP/UDP Protocol Support
- Unicast and Multicast Broadcasting Scheme
- Enhanced MBMS (Multimedia Broadcasting Management System)
 Support
- Firmware Upgradeable Architecture
- Broadcasting Solution with Outstanding Network Service Capability

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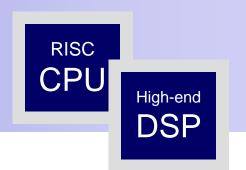
Dual Power Supply for System Stability

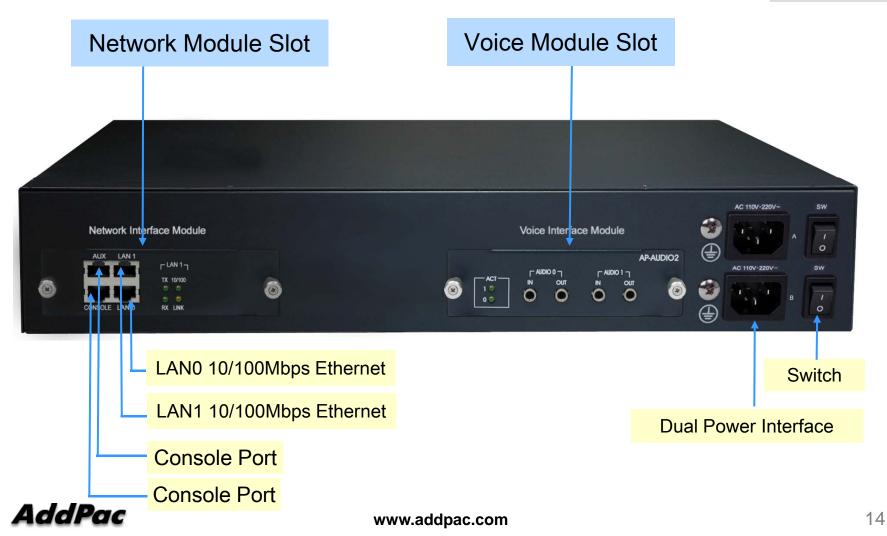




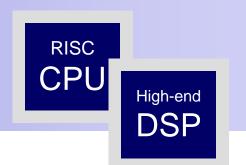








AP3120 IP Paging Server



☐ Support Various VoIP Module







- 2-Pair Audio-In/Out PortsVoice Band IP Broadcasting
- 1-Pair Audio-In/Out Ports, FXS Analog InterfaceVoice Band IP Broadcasting
- 1-Pair Audio-In/Out Ports, FXS 2-Ports, FXO 1-PortVoice Band IP Broadcasting



System Configuration (Audio2 Module)







Line-In	100mVpp ~ 2Vpp/ 75Ω	
Line-Out	105mW/180Ω	
Frequency Characteristic (±3dB)	60Hz~20kHz	
Signal to Noise Ratio	Above 70dB	
Dimension (WHD)	111×32×160mm	

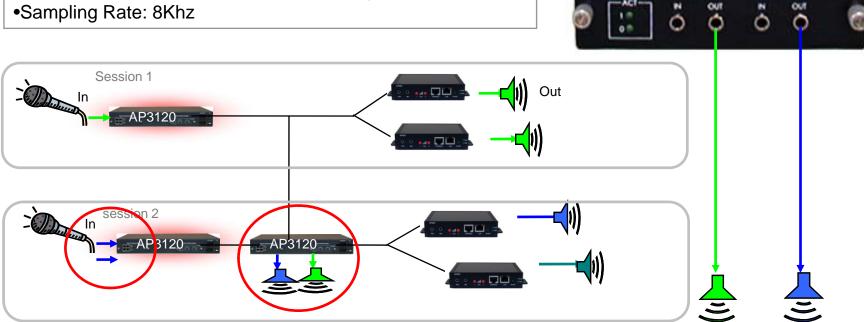






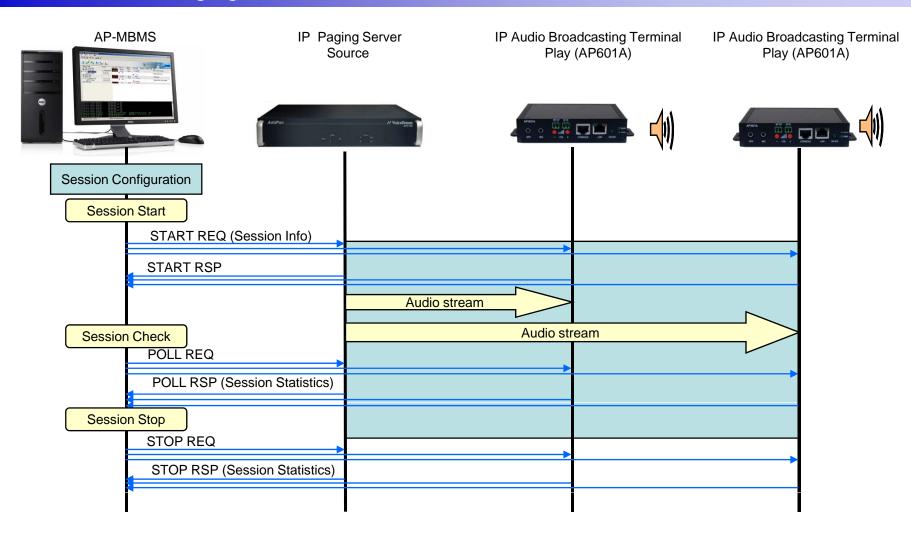
System Configuration (AP-AUDIO2 Module)

- •2-Pair Audio-In/Out Ports
- •3.5mm Female Analog Interface
- •Available to receive & send 2-Channels Broadcasting
- Support Voice Level IP Audio Broadcasting





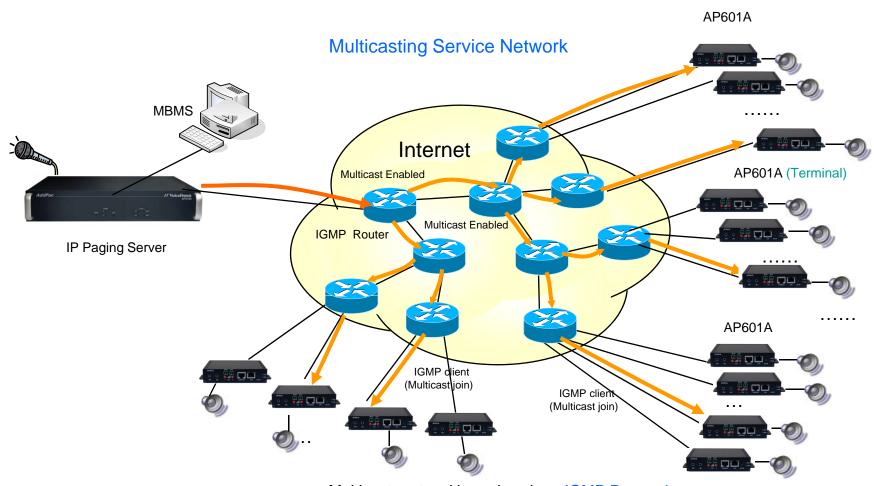
IP Audio Broadcasting Signal Flow (CASE1)





Multicast Service Network Diagram

AP3120 IP Paging Server



Multicast protocol based such as IGMP Protocol

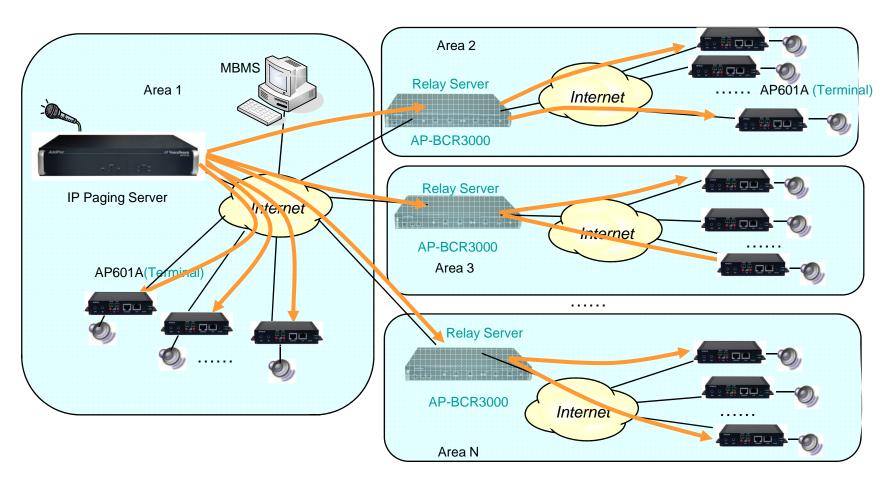
Available to broadcast multi destination with single channel bandwidth



Unicast Service Network Diagram

AP3120 IP Paging Server

Unicasting Service Network





IP Voice Broadcasting Solution

Audio Broadcasting Manager S/W	IP Broadcasting/Paging Server	Audio Broadcasting Router :Option (Relay Server)	IP Paging Terminal AP601, AP601A
	Addree // Voice Spaces		APPERA O AND O MAN O MA
	AP3110 (small site)		
Window based Audio Broadcasting Management Software.	Embedded Hardware based Broadcasting Server, Voice Codec Module, Voice Codec,G.711, G.726	1:N Audio Broadcasting Router. Gigabit Ethernet Support	Embedded Hardware based Audio Terminal. Volume Control Built-in AMP.(AP601A) G.711, G.726, Audio Codec.



AP601 IP Paging Terminal





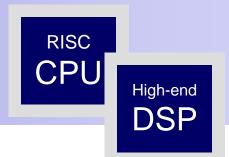
Product Overview

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
- RTP/UDP Protocol Support
- Unicast and Multicast Broadcasting Scheme
- Enhanced MBMS (Multimedia Broadcasting Management System)
 Support
- One(1) channel SPK/MIC Port
- Option (AP601A) : AMP. Built-in
- Firmware Upgradeable Architecture
- Broadcasting Solution with Outstanding Network Service Capability
- External Power Supply



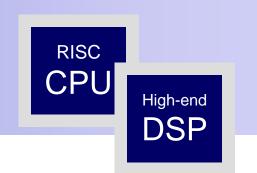
AP601 IP Paging Terminal



- RISC Microprocessor Computing Power
- High-end Programmable DSP Hardware Architecture
- High Quality Voice 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

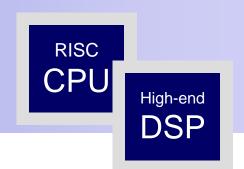


Front Side



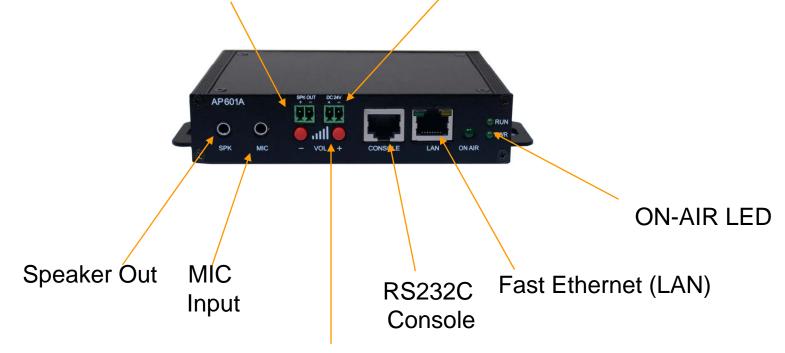


AP601A IP Paging Terminal



Front Side (AMP. Built-In Model : AP601A)

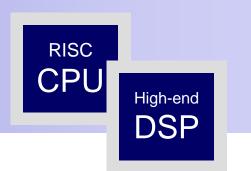
AMP. Speaker Out 24V DC Power Input for Internal AMP.



Speaker Volume Control Button (Up, Down)



AP601 IP Paging Terminal

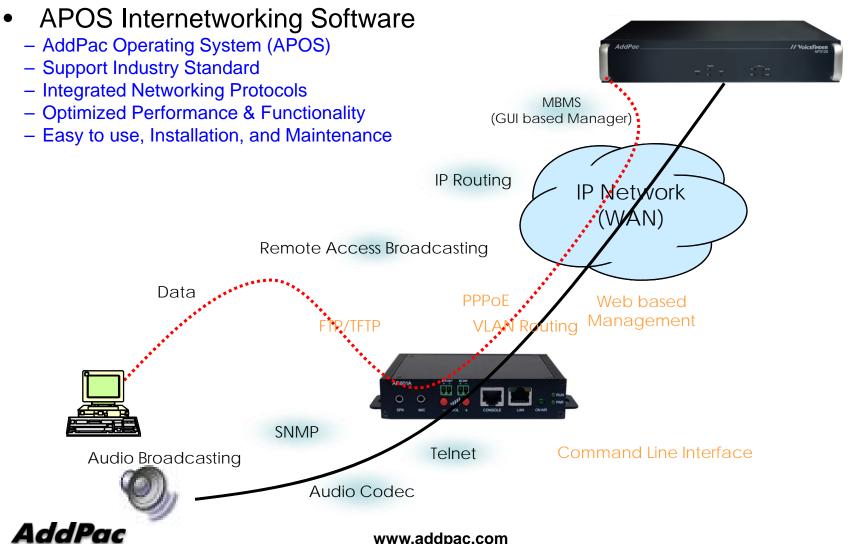


Back Side



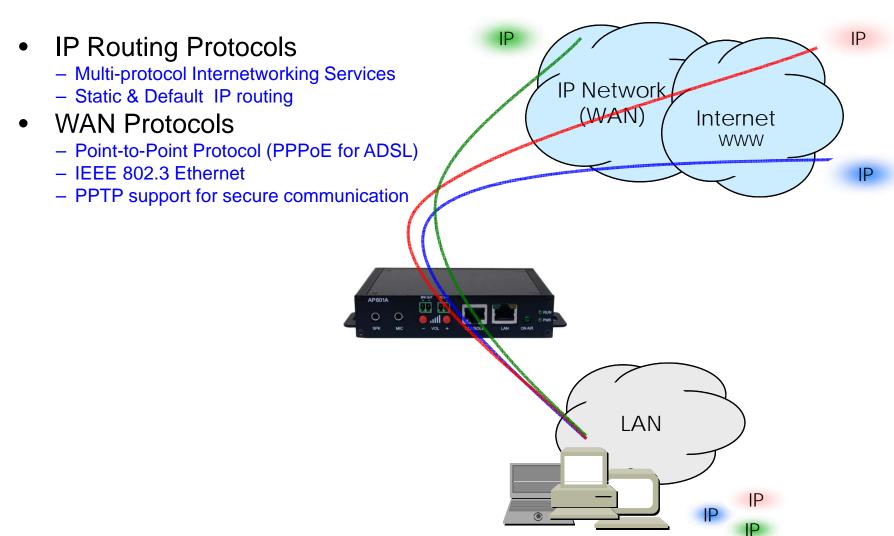


AP601 IP Paging Terminal



APOS™ Service Features

AP601 IP Paging Terminal





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

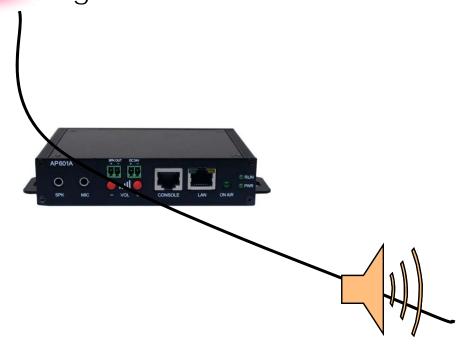
Audio Codec

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

IP Broadcasting

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





Thank you!

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