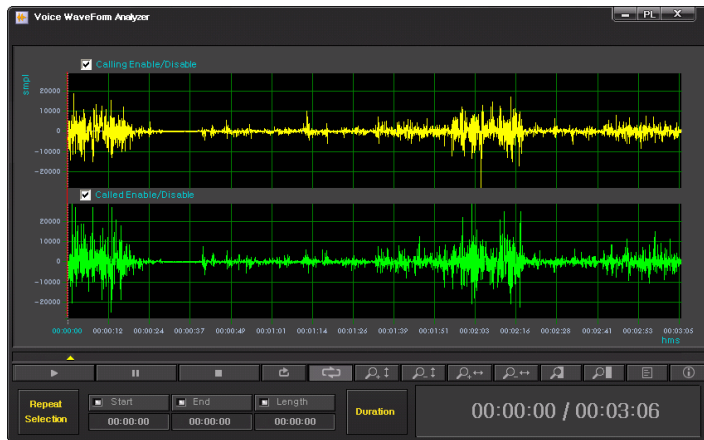


# Voice Recording Solution for HQ-Branch based Enterprise



**AddPac**

**AddPac Technology**

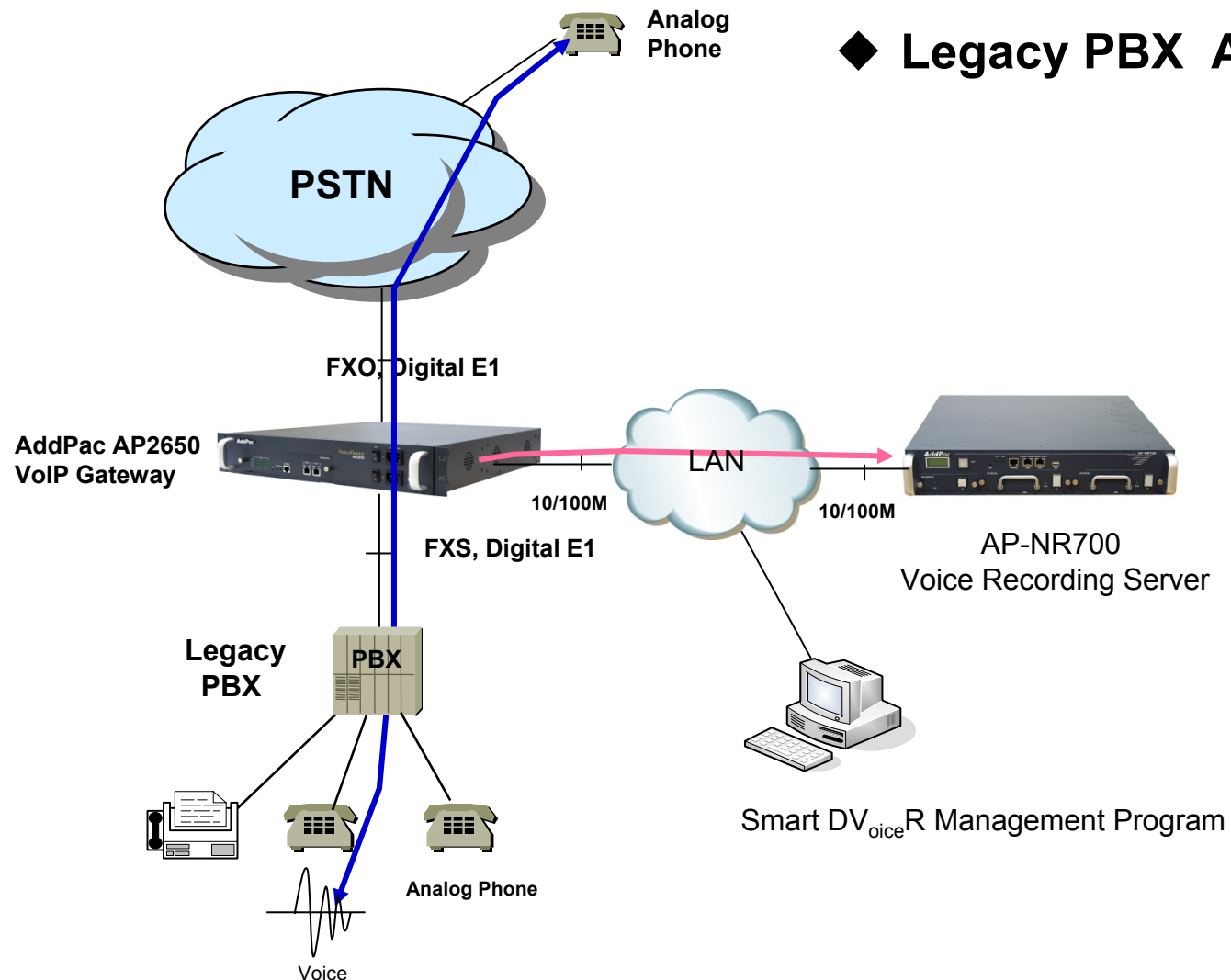
2010, Sales and Marketing

# Contents

- Network Diagrams
- Product Specifications
  - Voice Recording Server : AP-NR2000, AP-NR700, AP-NR500
  - Voice Transcoder : AP-VTC1000
  - VoIP Gateways for Voice Recording Extension: AP2650, etc
  - Hybrid IP-PBXs with Voice Recording Features for Branch
  - IPNext180R IP-PBXs for Branch (example)
  - IP terminals with Voice Recording Service Features
  - Smart Digital Voice Recording Management Program
  - Personal Smart Window Program

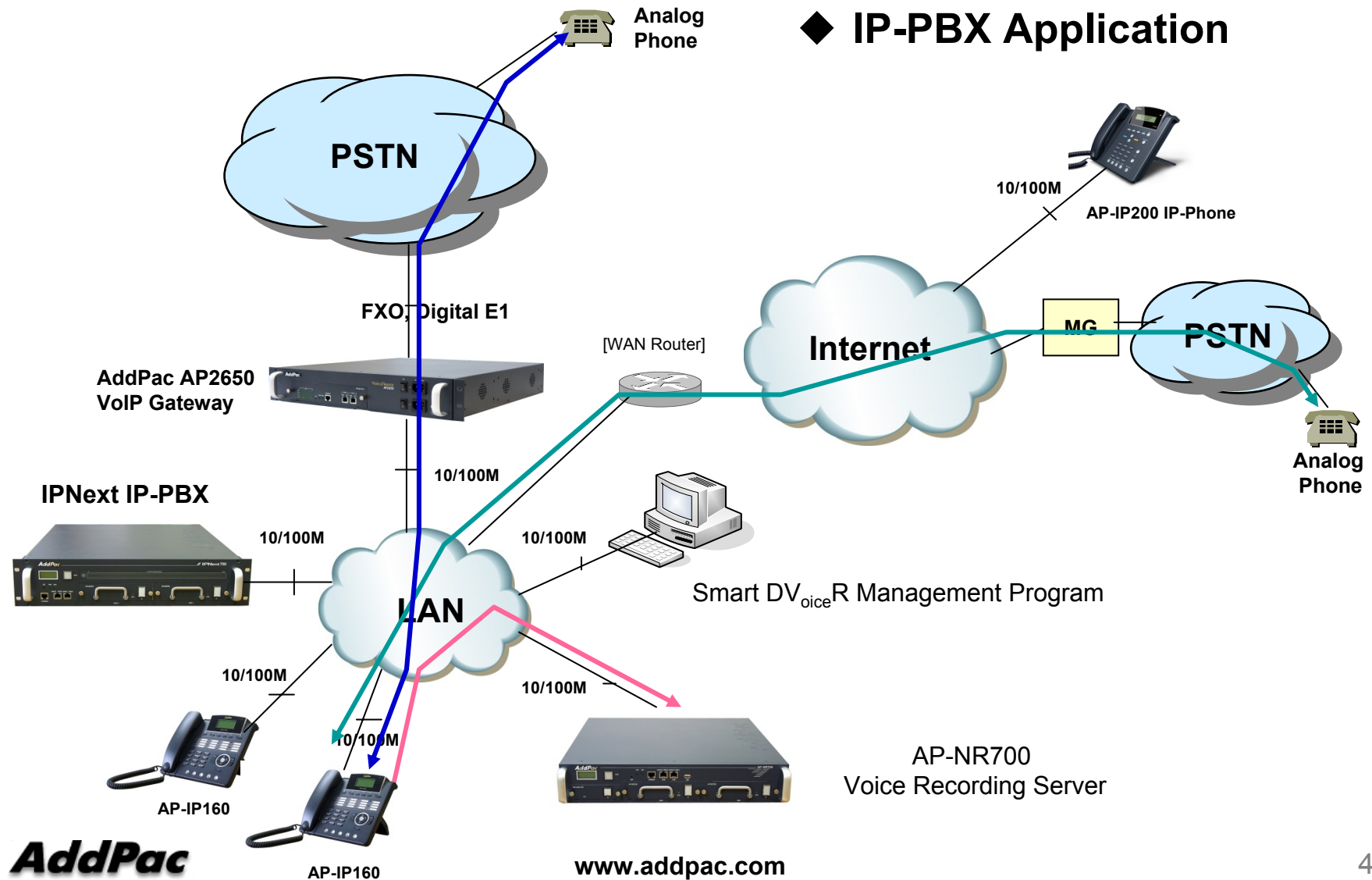
# Network Diagram (HQ : Case 1)

## ◆ Legacy PBX Application



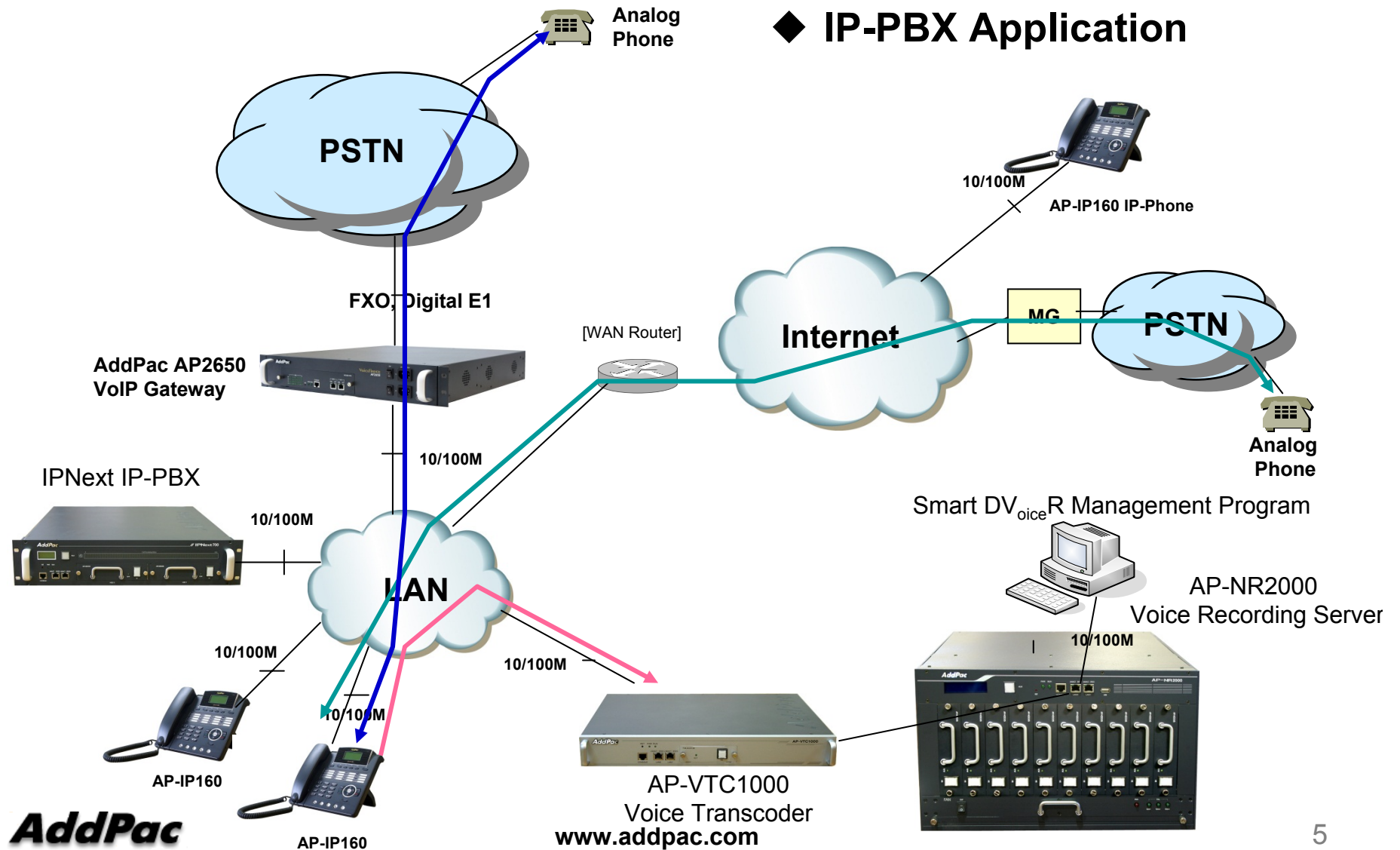
# Network Diagram (HQ : Case 2)

## ◆ IP-PBX Application

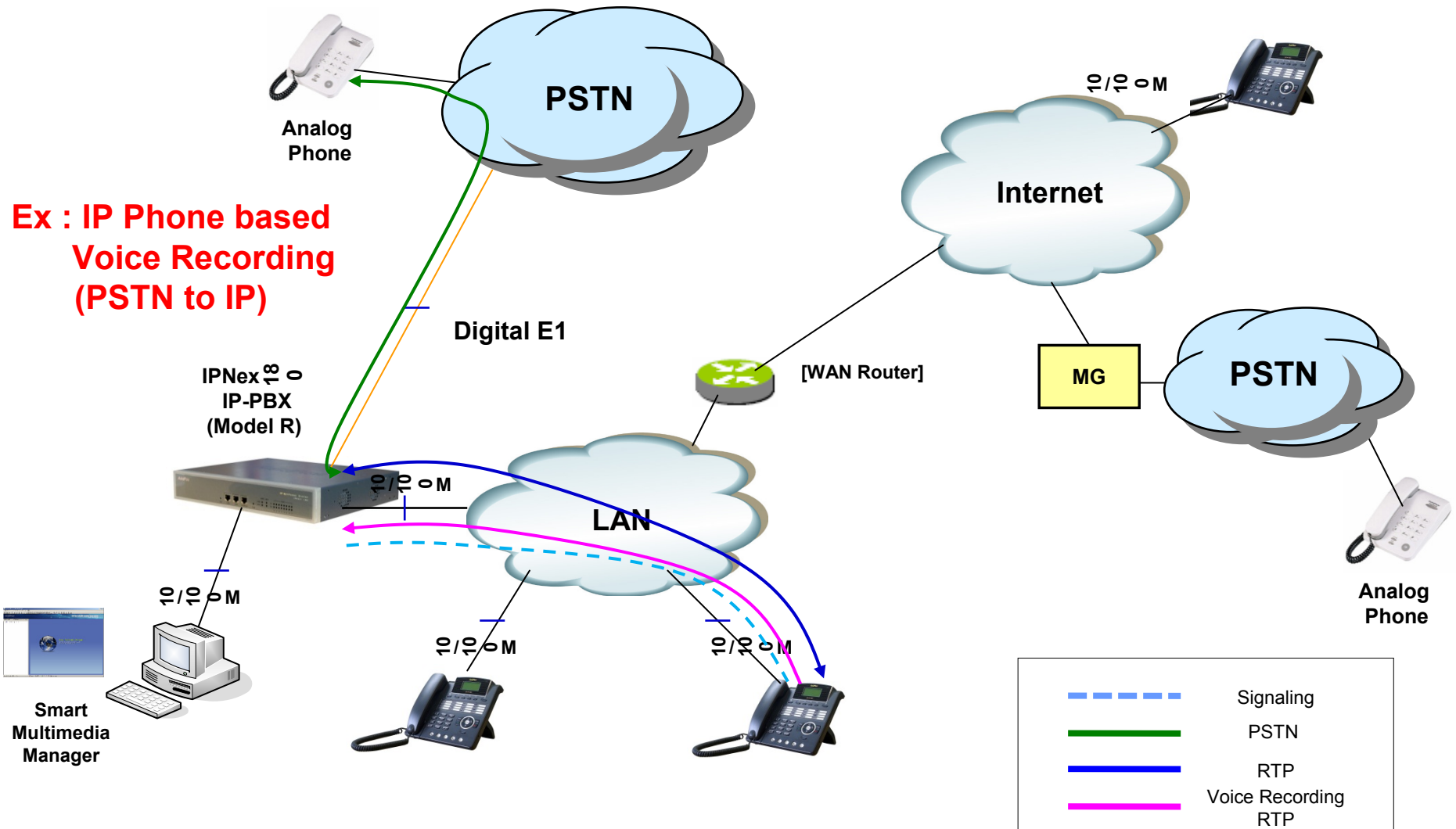


# Network Diagram (HQ : Case 3)

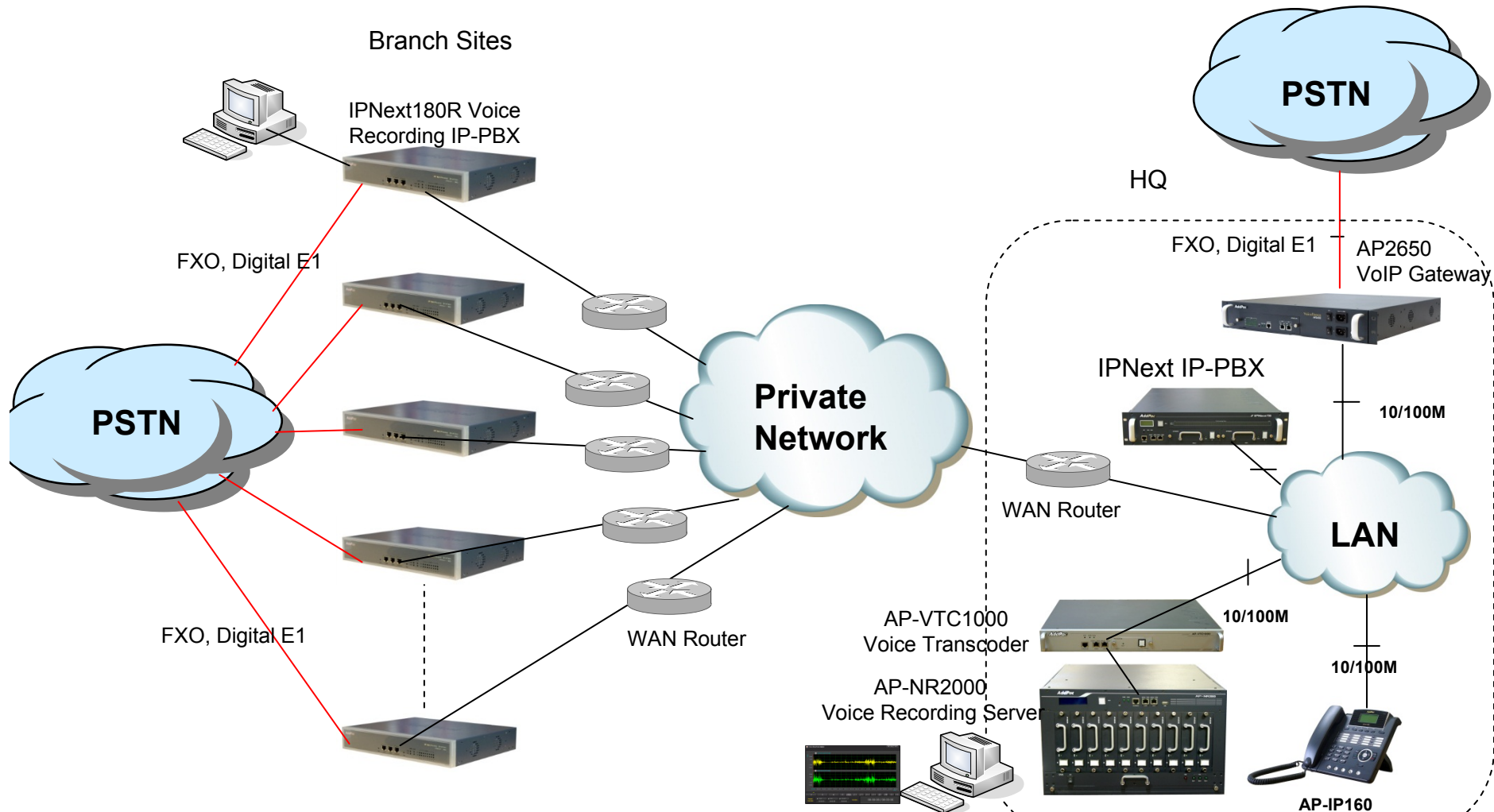
## ◆ IP-PBX Application



# Network Diagram (Branch)



# Network Diagram (HQ-Branch)





# IP Voice Recording Server



# AP-NR2000

## Voice Recording Server

- Embedded Platform
- High-End 64bit RISC Processor
- Real-time Voice Recording
- RTP/RTSP Support
- RISC Microprocessor Computing Power
- Main Chassis
  - One(1) RS-232C Console (RJ45)
  - Two(2) Giga Ethernet Port
  - Ten(10) Hard Disk Interface Slot



# AP-NR700

## Voice Recording Server

- Embedded Platform
- High-End 64bit RISC Processor
- Real-time Voice Recording
- RTP/RTSP Support
- RISC Microprocessor Computing Power
- Transcoding DSP Module (64ch)
- Main Chassis
  - One(1) RS-232C Console (RJ45)
  - Two(2) Giga Ethernet Port
  - Two(2) Hard Disk Interface Slot for RAID1 Configuration



# AP-NR500

## Voice Recording Server

- Embedded Platform
- High-End 64bit RISC Processor
- Real-time Voice Recording
- RTP/RTSP Support
- RISC Microprocessor Computing Power
- Transcoding DSP Module(32ch)
- Main Chassis
  - One(1) RS-232C Console (RJ45)
  - Two(2) Giga Ethernet Port
  - Single(1) Hard Disk Interface Slot





# Voice Transcoder

# AP-VTC1000

## Voice Transcoder





- Embedded Platform
- High-End 64bit RISC Processor
- Real-time Voice Transcoding (Ex: G.729->G.711, etc)
- RTP/RTSP Support
- RISC Microprocessor Computing Power
- Network Interface
  - Two(2) 10/100Mbps Fast Ethernet
  - One(1) RS-232C Console
- DSP Module for Voice Transcoding
  - 32 Channel DSP Module
  - 64 Channel DSP Module
  - Voice Codec : G.711, G.729, G. 723.1, G.726, etc





# VoIP Gateways for Voice Recording Extension

# VoIP Gateways with Voice Recording Extension

Product	AP2620	AP2640	AP2650	AP-MG3000
				
Available Modules	AP-FXS4 AP-FXO4 AP-FXS2O2 AP-E&M4 AP-E1	AP-FXS8 AP-FXO8 AP-FXS4O4 AP-E&M8 AP-E1	AP-FXS8 AP-FXO8 AP-FXS4O4 AP-E&M8 AP-E1	APv2-1E1 APv2-2E1 APv2-4E1
Analog Ports	Up to 8	Up to 32	Up to 32	N/A
Signaling	SIP, H.323	SIP, H.323	SIP, H.323	SIP, H.323
Digital E1/T1	Up to 2E1/T1	Up to 2E1/T1	Up to 2E1/T1	Up to 4E1/T1
E&M	Support	Support	Support	N/A
Module Slot	Two(2)	Four(4)	Four(4)	Two(2)
LAN Port	2	2	2	2
Console	1	1	1	1
Power	Single PSU	Single PSU	Dual PSU	Single PSU

# AP2650 VoIP Gateway

- Voice Recording Interface Support
- FXS, FXO, E&M, Digital E1/T1 VoIP Interface
- Up to 32 Port Analog Interface
- IPv4/IPv6 Address Support
- SIP, H.323, MGCP VoIP Signaling Support
- Firmware Upgradeable Architecture
- Dual Power Supply for Redundancy











# Hybrid IP-PBXs for Voice Recording Extension

# Hybrid IP-PBXs with Voice Recording Features for Branch

Model		IPNext250	IPNext210	IPNext190	IPNext180
Service Features					
Registration/Concurrent User Number		200/100	150/50	150/50	100/30
IPv4/IPv6 Dual Stack Support		Support	Support	Support	Support
VoIP Signaling	Internal	SIP	SIP	SIP	SIP
	External	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP
Powerful IVR, UMS, Media Service, User Presence Service		Support	Support	Support	Support
RTP Proxy Service (IPv6, Private IP)		Support	Support	Support	Support
LAN Port		2	2	2	2
VoIP Module Slots for PSTN		10 Slots (8 Port Module)	4 Slots (8 Port Module)	4 Slots (8 Port Module)	2Slots (8 Port Module)
VoIP Interface		FXS, FXO,E1/T1	FXS,FXO,E&M, E1/T1	FXS, FXO,E1/T1	FXS,FXO,E1/T1

# IPNext180R Product Overview

- Powerful IP-PBX for SMB
- Smart Management and User Friendly Features
- Fault Tolerant and Scalability Architecture
- RTP Proxy Service
- IVR Service
- User Presence Service
- Media Service : Ring back Tone, Music on Hold, Announcement, etc
- Unified Messaging Service : Voice Mail, etc
- **Voice Recording Service**
- Firmware Upgradeable Architecture
- Two(2) Fast Ethernet Interface
- Two(2) VoIP Module Slots for PSTN
- One(1) RS-232C Port for CLI



# IPNext180R H/W Specification

- IPNext180 Embedded Platform
- Voice Interface
  - Two(2) Module Slots for PSTN Interworking
- RISC Microprocessor Computing Power
- Memory Extension (**2G Flash Memory**) for Voice Recording
- Voice Codec
  - G.711, G.726, G.729, G.723.1
- Main Chassis
  - One(1) RS-232C Console (RJ45)
  - Two(2) Fast Ethernet Port
  - Internal Power Supply



# IPNext180R Voice Recording Service

- IP based Voice Recording Service
  - IP Phone Voice Recording Support
  - Call Manager(RTP Proxy) based Voice Recording Support
- IP Phone Voice Recording Service using Function Key
- Web based Personal Smart Window
  - Monitoring Voice Recording Storage Quota
  - Play Recorded File using IP Phone
  - Browsing Recorded File by Smart Window
  - Recorded Files Backup and Restore



# IP Phones for Voice Recording Extension

# IP Phones with Voice Recording Service Feature

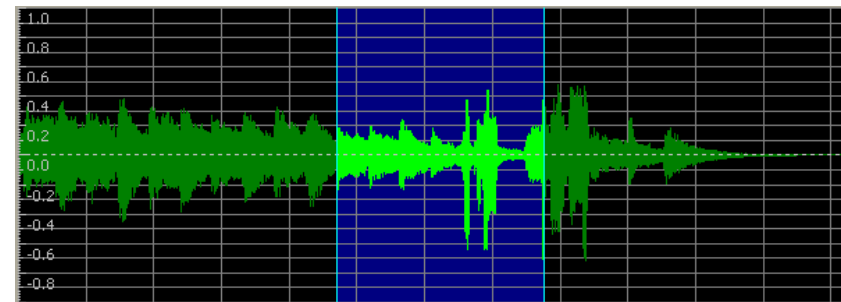
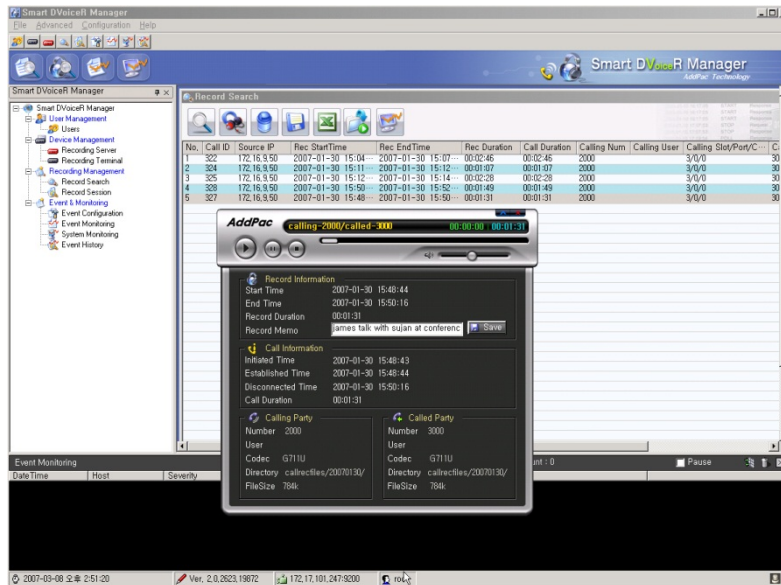
	AP-IP300	AP-IP250	AP-IP230	AP-IP160	AP-IP120	AP-IP90
						
LCD Size	4.3 Inch Color LCD	4.3 Inch Color LCD	5 Inch Color LCD	4 Text Line Graphic LCD	4 Text Line Graphic LCD	4 Text Line Graphic LCD
Touch Screen	N/A	Support	Support	N/A	N/A	N/A
Speed-Dial Keys	25 Key with Presence LED	Touch Screen based 25 Keys	Touch Screen based 25 Keys	16 Key with Presence LED	12 Key with Presence LED	N/A
Voice Codec	G.711/G.726/G.729/G.723	G.711/G.726/G.729/G.723	G.711/G.726/G.729/G.723	G.711/G.726/G.729/G.723	G.711/G.726/G.729/G.723	G.711/G.726/G.729/G.723
Signaling	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP
3-Party Conversation	Support	Support	Support	Support	Support	Support
LAN Port	2	2	2	2	2	2
PoE(Optional)	Support	Support	Support	Support	Support	Support
FXO(Optional)	Support	Support	Support	Support	Support	Support



# Smart DVoiceR Management Program for Voice Recording Server



# Smart DVoiceR Management Program for HQ



- 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

# Personal Smart Window Interface for Branch

## Recording File Search Result

Calling Num ▼ 9000 Search

	Calling Number	Called Number	Recording Start Time	Recording End Time	Duration (sec)	Play
<input type="checkbox"/>	9000	5000	2010/03/17 09:50:45	2010/03/17 09:51:45	60	<a href="#">Play</a>
<input checked="" type="checkbox"/>	9000	3000	2010/03/18 09:00:12	2010/03/17 09:00:45	33	<a href="#">Play</a>
<input checked="" type="checkbox"/>	9002	9000	2010/03/18 10:50:12	2010/03/17 10:55:12	300	<a href="#">Play</a>
<input type="checkbox"/>	9005	9000	2010/03/18 15:12:03	2010/03/18 15:12:13	10	<a href="#">Play</a>
<input type="checkbox"/>	9006	9000	2010/03/19 01:10:23	2010/03/19 01:11:10	47	<a href="#">Play</a>

[1] [2] [3] ... [Next]

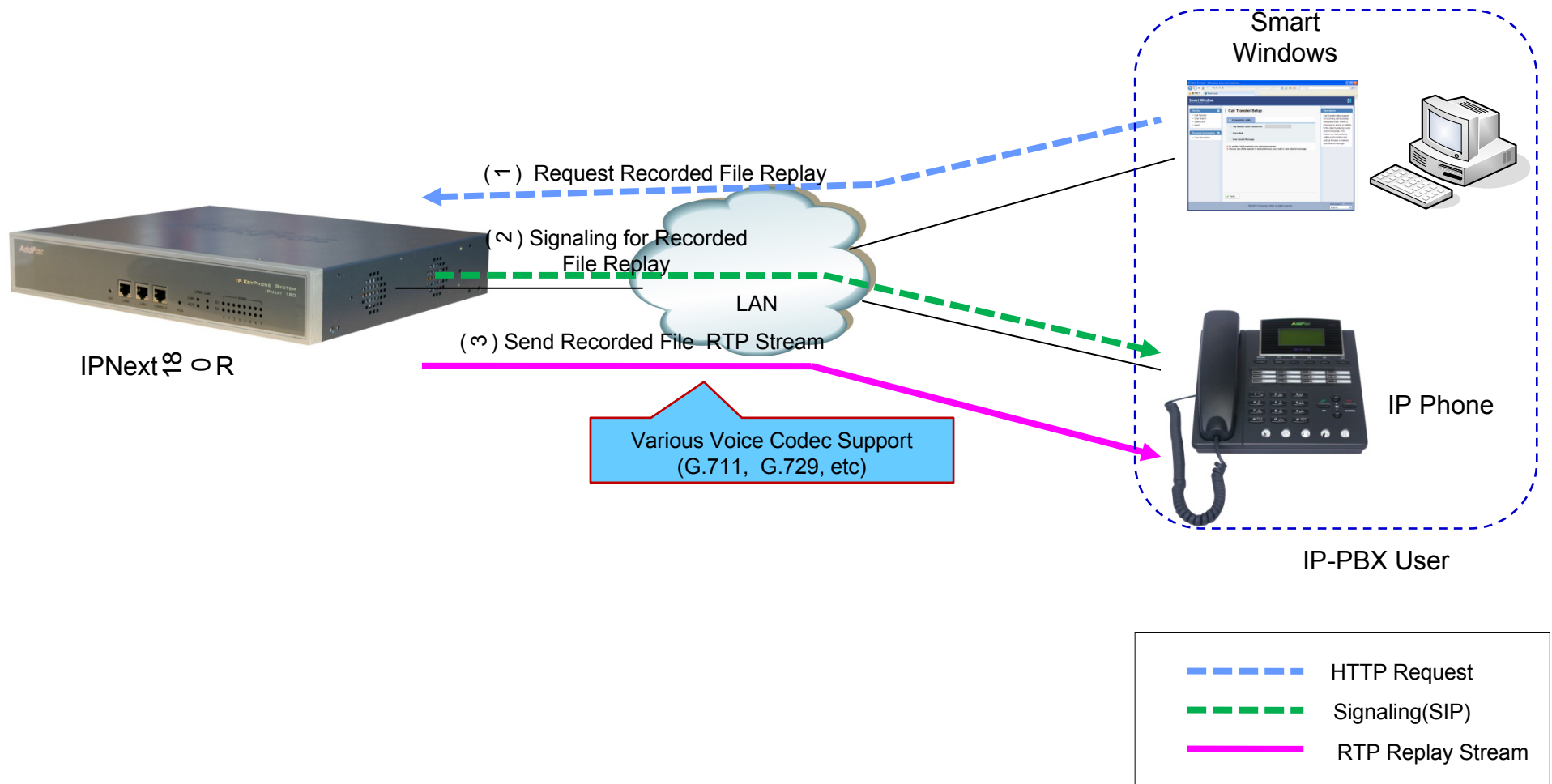
Backup

Powerful Recording Search  
\* calling number  
\* called number  
\* date  
\* call identifier, etc

Recording Play using IP Phone

Recording Backup  
\* selected files from recording server to PC storage

# Recorded File Replay with IP Phone (Branch)





# Thank you!

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