AP-IP90™
BcN IP Phone

High Performance Broadband Convergence Network IP Phone Solution

SOHO IP-PBX Application

Smart Messenger
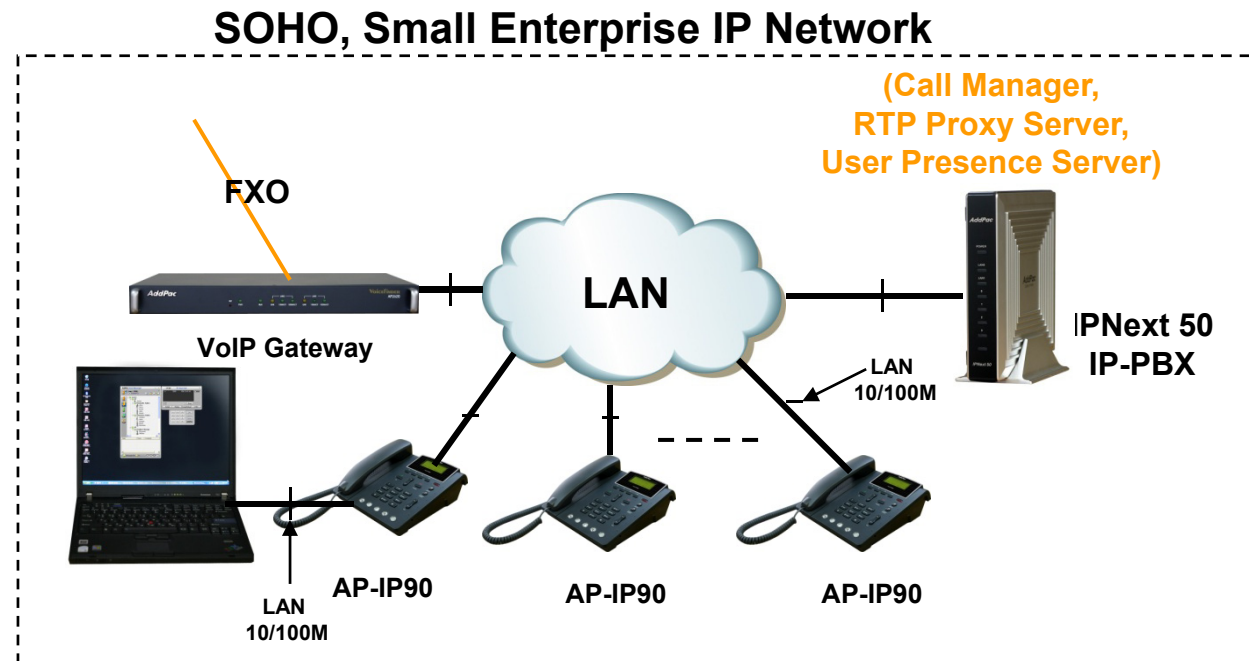
IPNext50 for SOHO　　**AP-IP90 IP Phone**

AddPac Technology

2010, Sales and Marketing

Contents

- IPNext50 Triple IP-PBX "All-in-One" Service for SOHO
  - Call Managing Server
  - RTP Proxy Server for Private IP Address
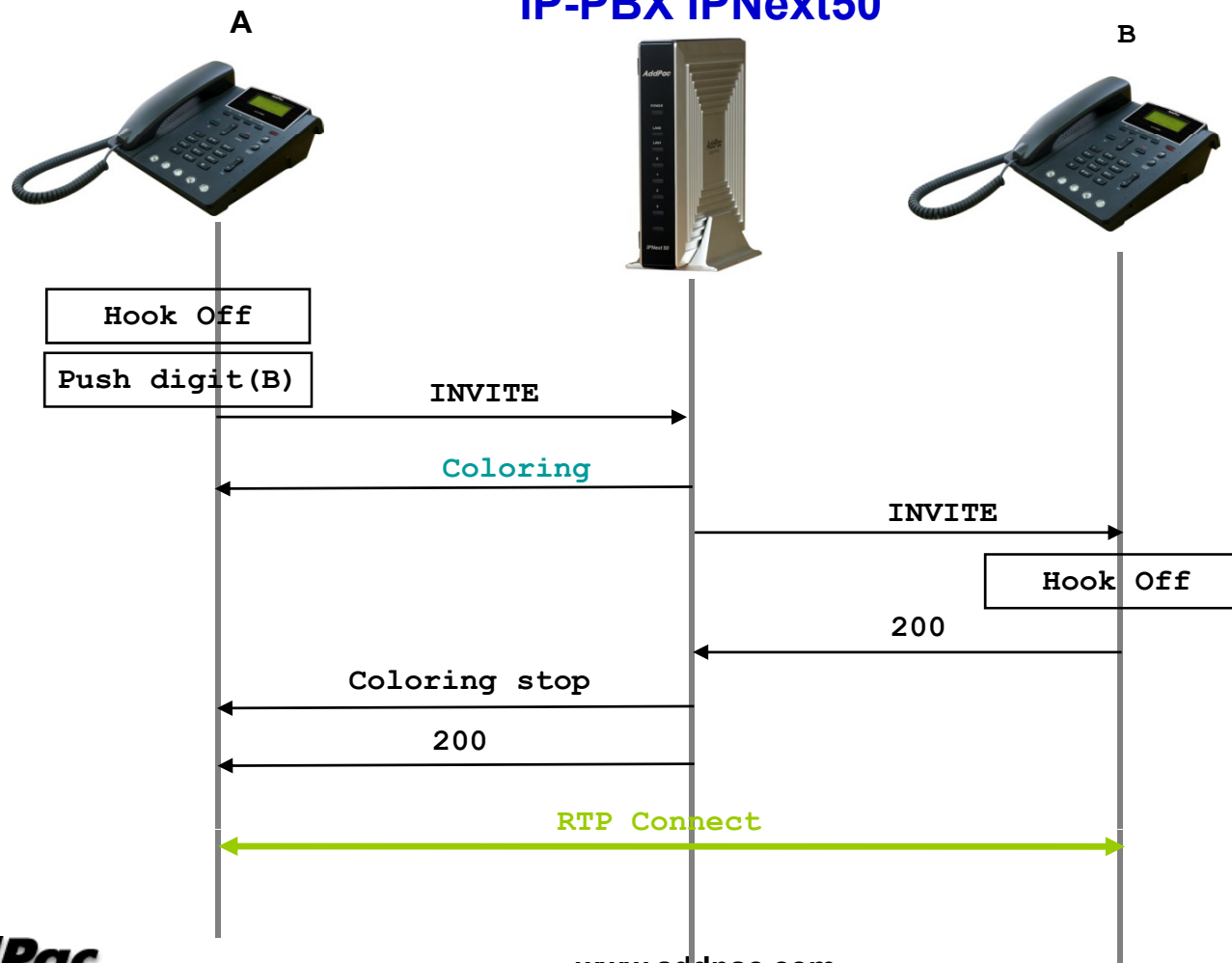 - Presence Server

SOHO, Small Enterprise IP Network

**(Call Manager,
RTP Proxy Server,
User Presence Server)**

FXO

LAN

VoIP Gateway

IPNext 50
IP-PBX

LAN
10/100M

AP-IP90   AP-IP90   AP-IP90

LAN
10/100M

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IPNext50 "All-in-One" Service

Call Managing Server

SIP based Basic Call Scenario

IP-PBX IPNext50

A

B

Hook Off

Push digit(B)

INVITE →

← Coloring

INVITE →

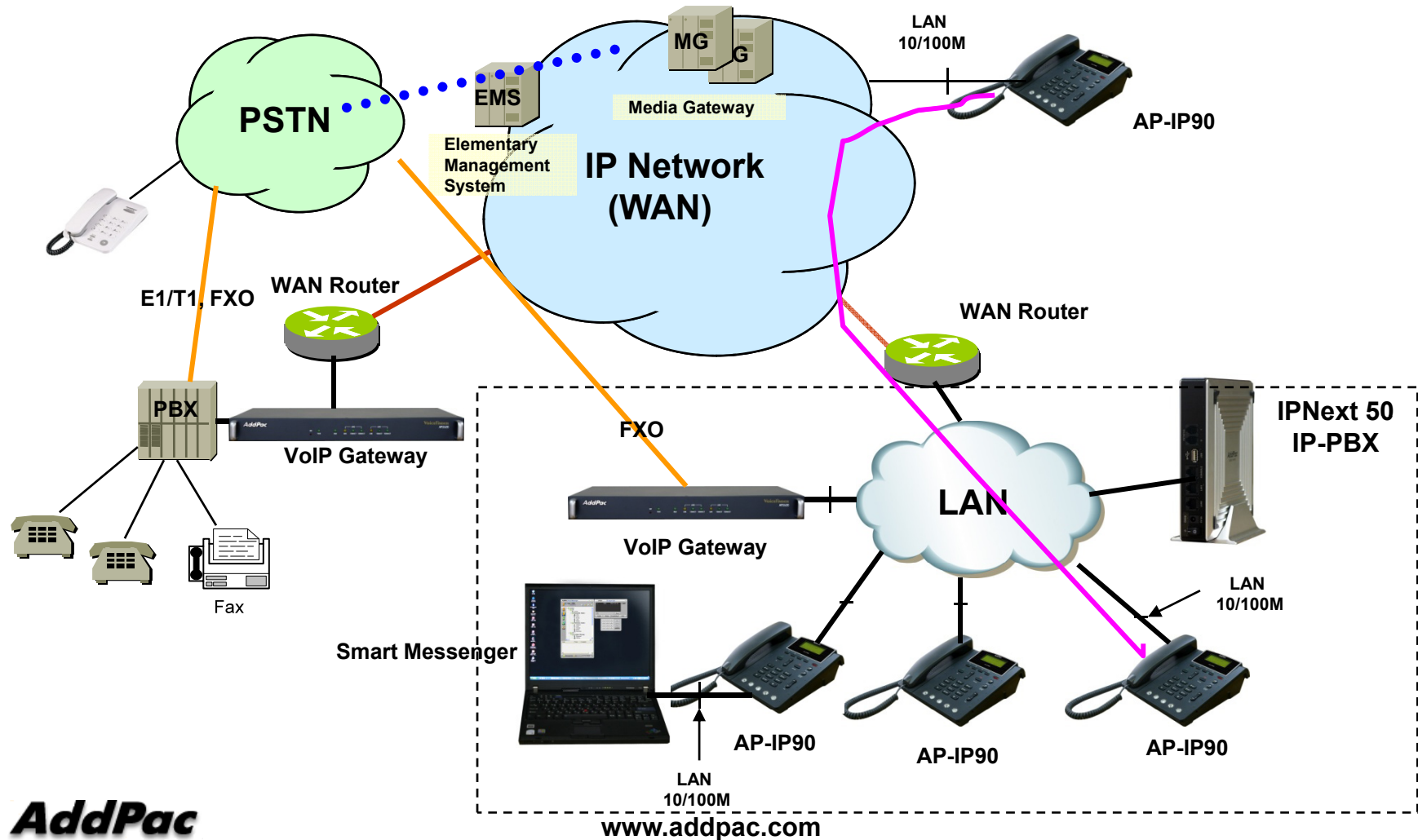| Hook Off |
|----------|

← 200

← Coloring stop

← 200

← RTP Connect →

IPNext50 "All-in-One" Service

Call Managing Server

SOHO IP-PBX Application

IPNext50 "All-in-One" Service

Call Managing Server

- **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

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IPNext50 "All-in-One" Service

Call Managing Server

- **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

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IPNext50 "All-in-One" Service

Call Managing Server

- **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

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IPNext50 "All-in-One" Service

Call Managing Server

- **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
  - Intercom
  - Personal Directory
  - Downloadable Ring
  - Do not Disturb

IPNext50 "All-in-One" Service

Call Managing Server

- **Conference**
  - G.711, G.726 (4-party Conference, 2 session)
  - Ad-hoc Conference
  - Dial-Out Conference
  - Meet-me Conference
  - Multiple External MCU support(Video, Audio, etc) : AddPac AP-MC1000, etc
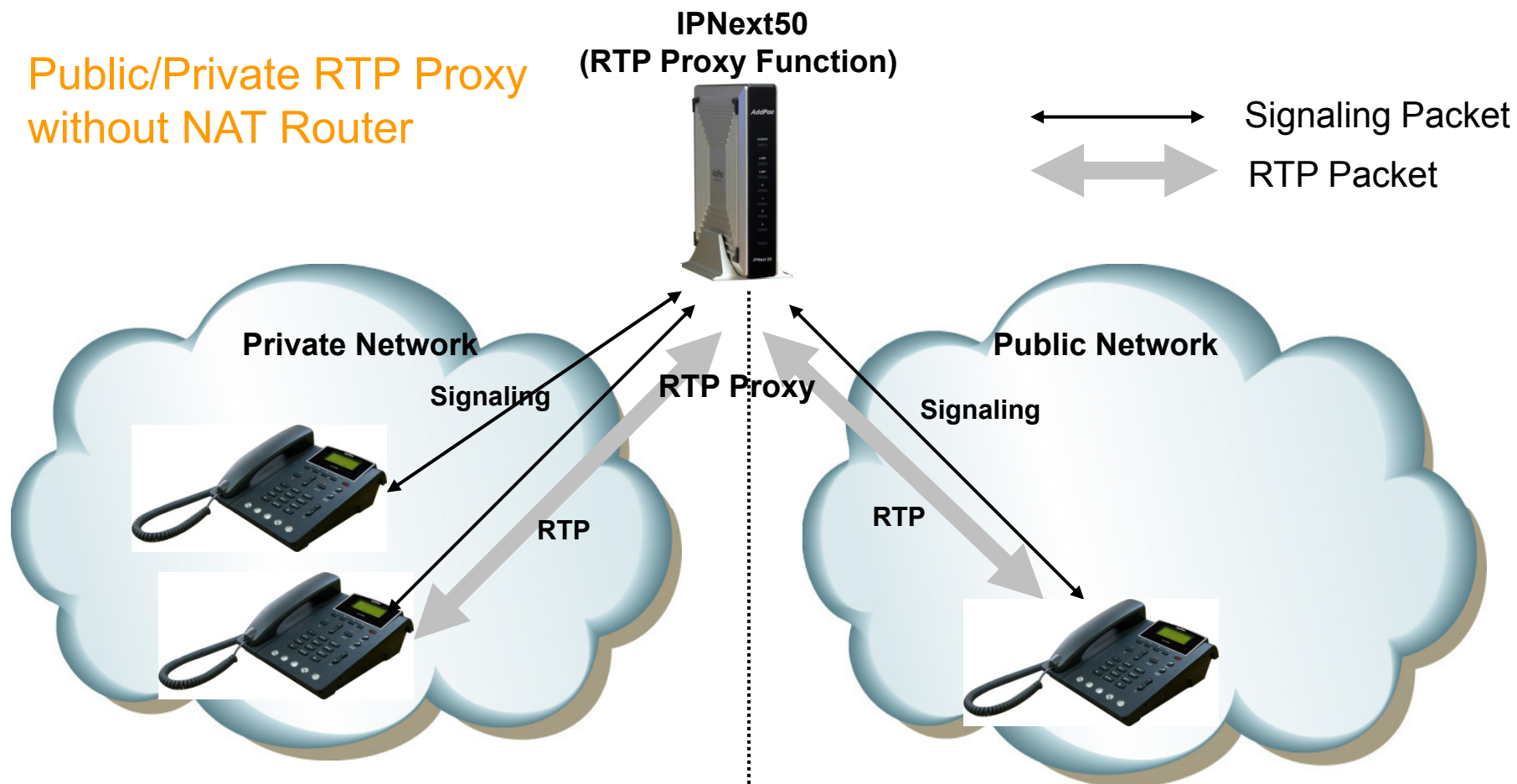 - Conference Chair and Participants Management

- **Music & Announcement**
  - Music on Hold
  - Replaceable Announcements
  - Dialing Music / Tone Service

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IPNext50 "All-in-One" Service

RTP Proxy Server

Public/Private RTP Proxy without NAT Router

IPNext50 (RTP Proxy Function)

Signaling Packet

RTP Packet

Private Network

Signaling
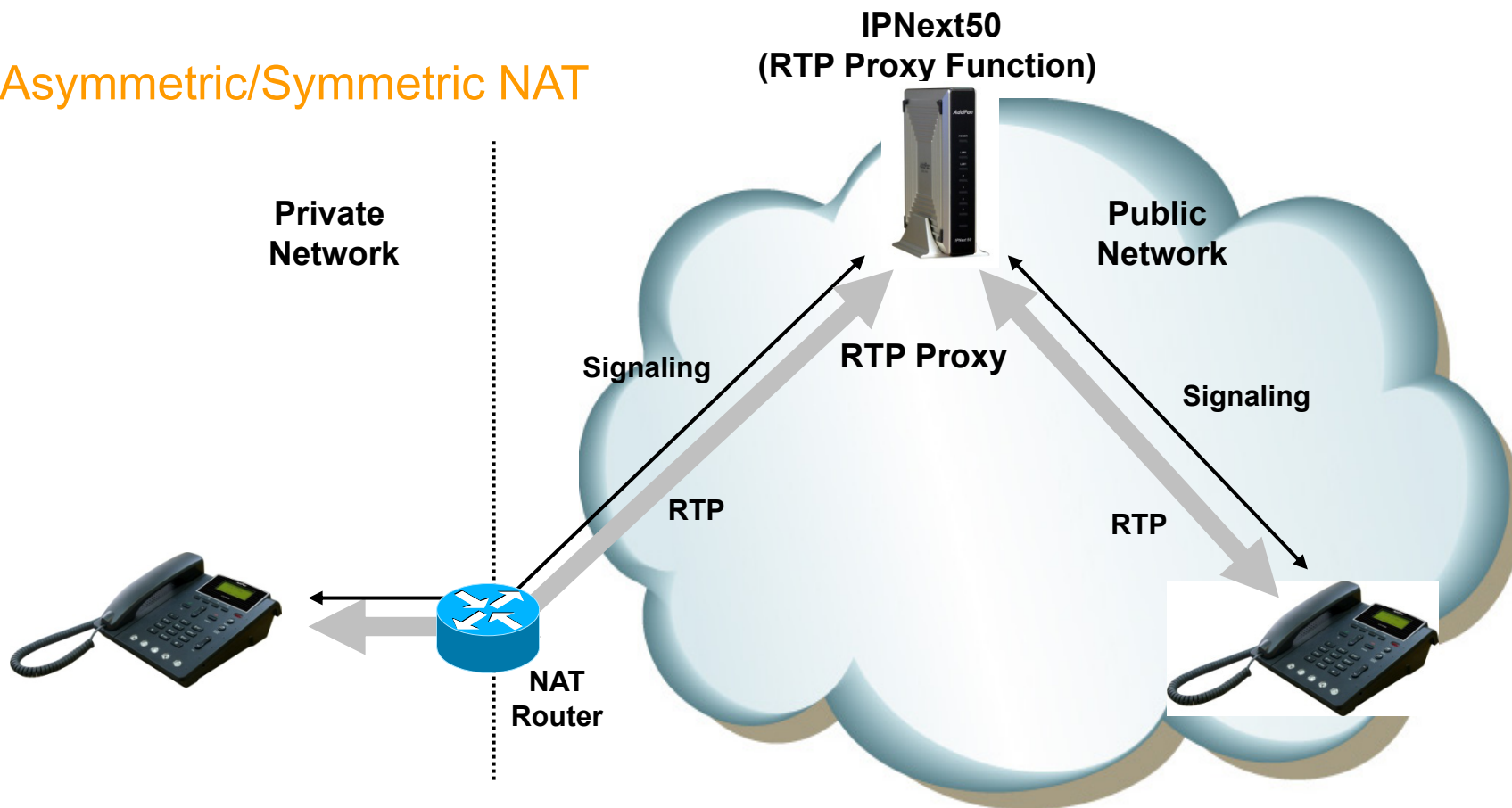
RTP Proxy

Public Network

Signaling

RTP

RTP

• Located between public and private network
• IPNext50(Call manager + RTP proxy) has public and private address
• IPNext50 determine that the call is internal or external

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IPNext50 "All-in-One" Service

RTP Proxy Server

Asymmetric/Symmetric NAT

**IPNext50
(RTP Proxy Function)**

**Private
Network**

**Public
Network**

Signaling

RTP Proxy

Signaling

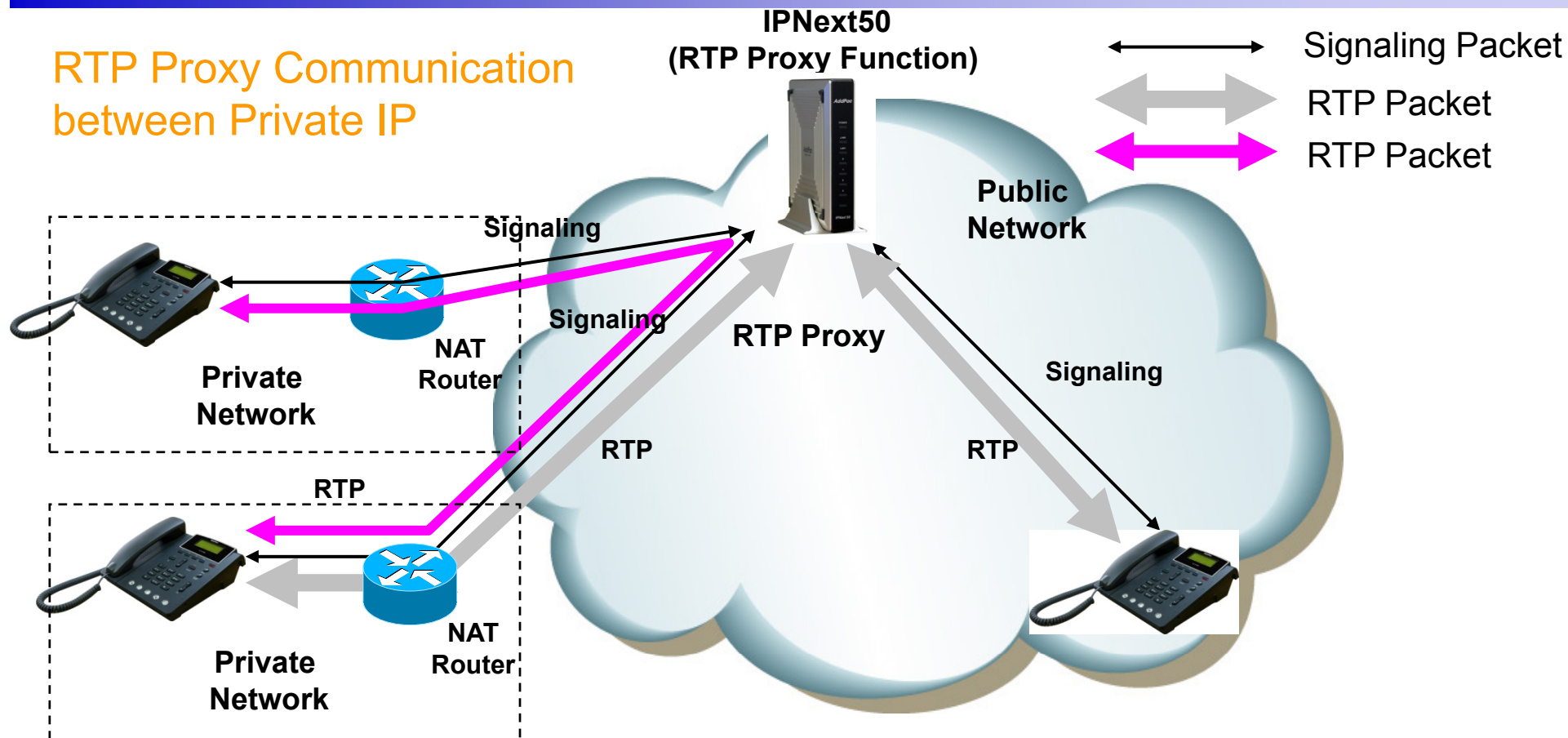**RTP**

RTP

**NAT
Router**

• Located in public network
• RTP Proxy has single public address
• Auto detect for asymmetric NAT via incoming RTP packet

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IPNext50 "All-in-One" Service

RTP Proxy Server

**IPNext50
(RTP Proxy Function)**

RTP Proxy Communication between Private IP

← → Signaling Packet
⬌ RTP Packet
⬌ RTP Packet

Public Network

Signaling

Signaling

RTP Proxy

Private Network

NAT Router

Signaling

RTP

RTP

RTP

Private Network

NAT Router

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

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# IPNext50 "All-in-One" Service

Presence Server

- **Smart Messenger Program**
    - PC based MS-Window Program
    - Support Messenger Service
    - Support Various Address Book
    - Support User Presence Information
      (Busy, Away, On-line, etc)
    - Support User Search Feature
    - Interoperation with Address Book and Smart Phone
    - Support Smart Phone Control and Setup
        - Call Control and Forward Setup
    - Support Unified Message Box
        - Voice Mail Box
        - Short Message Box

Smart Messenger

IPNext50 "All-in-One" Service

Presence Server

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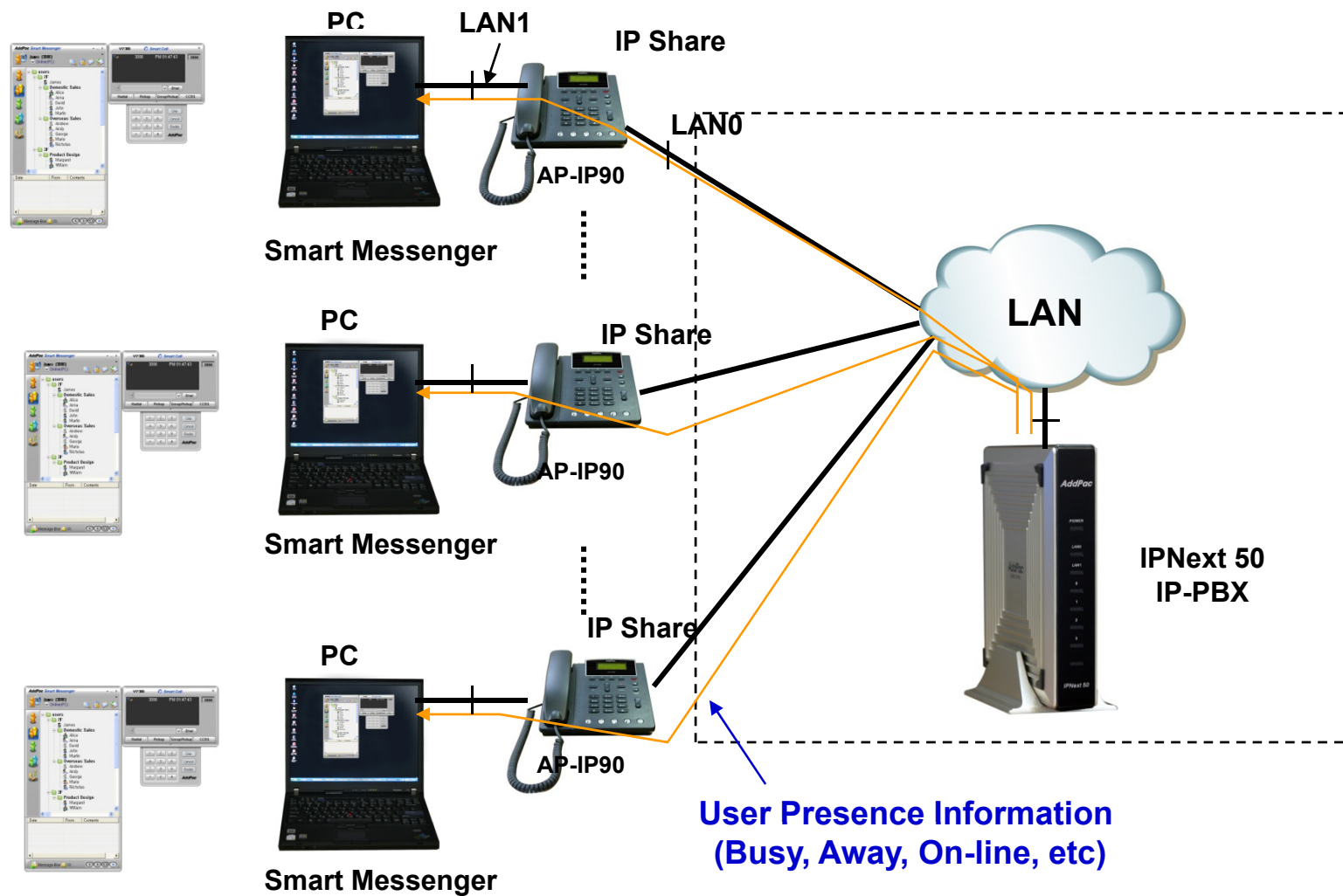
Thank you!

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