

AP-SRD100 Smart RoIP(Radio over IP) Dispatcher



AddPac

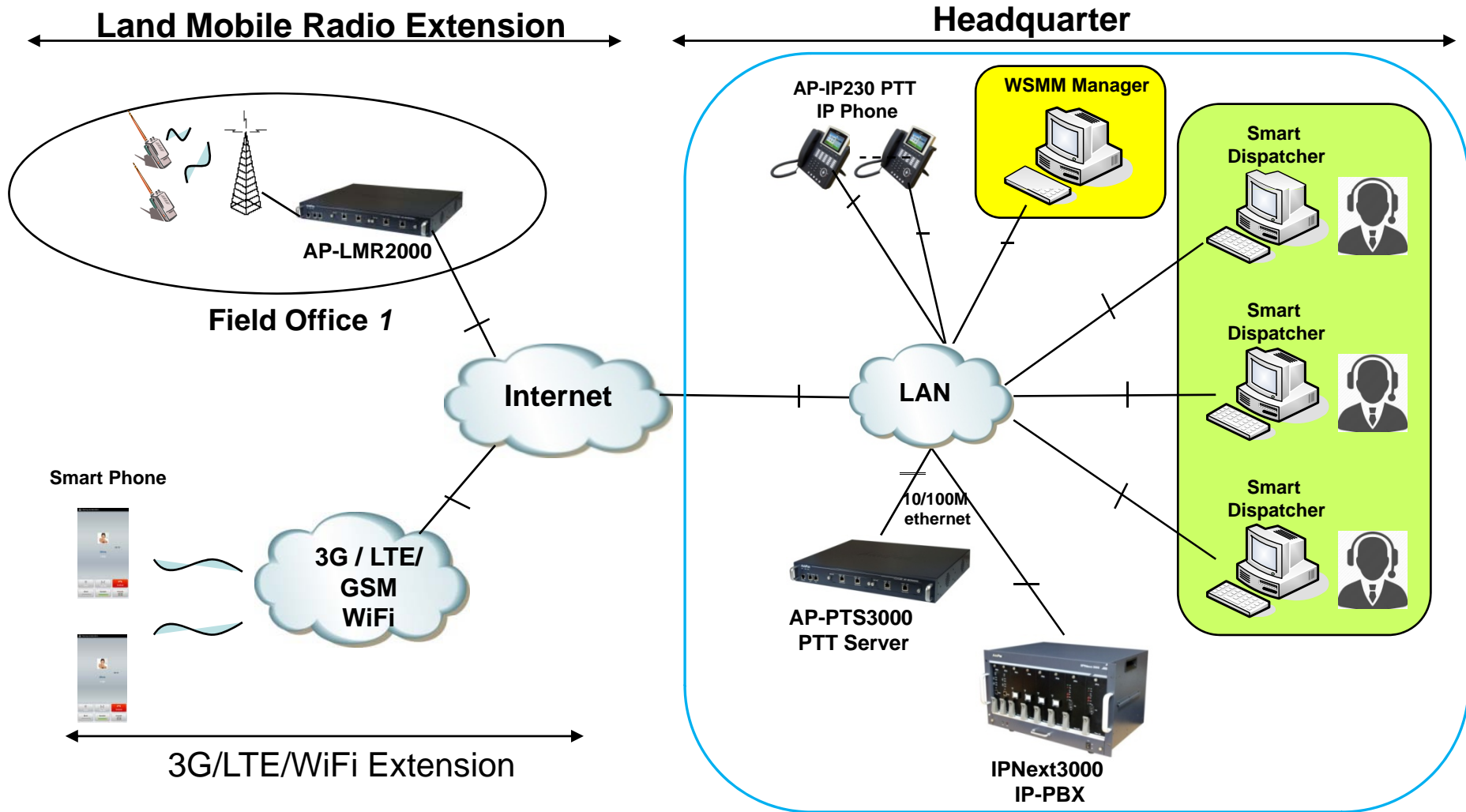
AddPac Technology

Sales and Marketing

Contents

- Smart RoIP Dispatcher Network Diagram
- RoIP Solution Component Overview, Concept, Purpose of Use, etc
 - WSMM, Smart Dispatcher, LMR Gateway, PTT Phone Group and User Extension, PTT Group Activation/Deactivation, Radio Channel's PTT Session, PTT Session Join/Leave, PTT Link, Patch a Call to Radio Channel, Patch a Call to Radio Channel/PTT Group
- WSMM Overview for PTT Service
- Smart Dispatcher Overview for PTT Service

Smart Dispatcher Service Diagram



WSMM (Web Smart Multimedia Manager) Features

Configuration Tool for PTT Service

- **Extension Management**
 - IP Phone, LMR Gateway, Radio Extension, Radio Channel, PTT Phone Group, Dispatcher
- **Call Routing Management**
 - Routing Access List, Partition, Trunk, Outgoing Call Rule, Incoming Call Rule
- **PTS Server Management**
- **PTT Link Management**
- **Monitoring**
 - Active Call, Active PTT Group, Active PTT Link, Dispatcher
- **History**
 - Call History, PTT History

Smart Dispatcher Features

Operation Tool for PTT Service

- **Provides Intuitive GUI for Radio Dispatcher**
 - Multiple Work Spaces provide easy operation of related PTT Groups
 - PTT Group tile provides intuitive control and monitoring of the group
- **Send and Receive PTT Calls to/from PTT Groups**
 - Selects one or more PTT Groups to send PTT call simultaneously
 - Authorized operator can activate and deactivate PTT Group
- **Control PTT Links**
 - Make a PTT Link between PTT Groups for flexible operation
 - Link Up/Down dynamically to control PTT range
- **Handle Normal Call from/to other Extensions**
 - Patch the call to a activated PTT Group
 - Hold/Resume/Transfer the call

Radio Extension and Radio Channel

LMR (Land to Mobile Radio) Gateway

- **LMR Gateway**

- It has E&M 4-wire or Custom interface to radio base station
- Dispatchers, PTT Phones, and PTT Apps can talk to legacy radio terminals via LMR gateway.

- **Radio Extension**

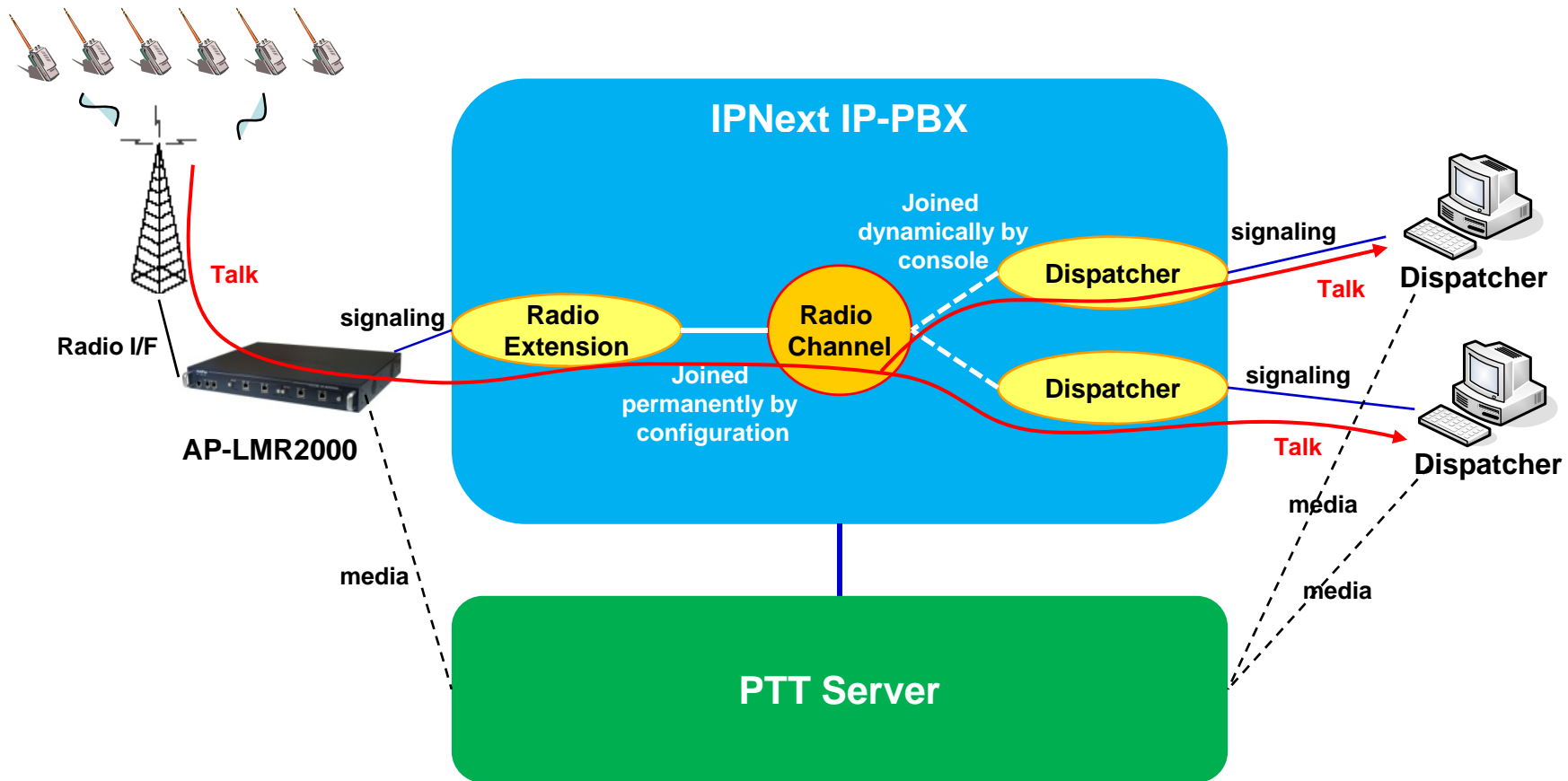
- This is an extension for an E&M port or Custom Interface of LMR gateway.
- The LMR gateway should register to AddPac IPNext IP-PBX system as radio extension.

- **Radio Channel**

- It represents a PTT radio channel which has PTT service extension number to activate and join to it.
- A radio extension join to it permanently and dispatchers or other extensions can join to it dynamically by dispatch console.

Radio Extension and Radio Channel

LMR (Land to Mobile Radio) Gateway



PTT Phone Group and User Extension

PTT IP Phone and PTT Apps

- **PTT Phone Group**

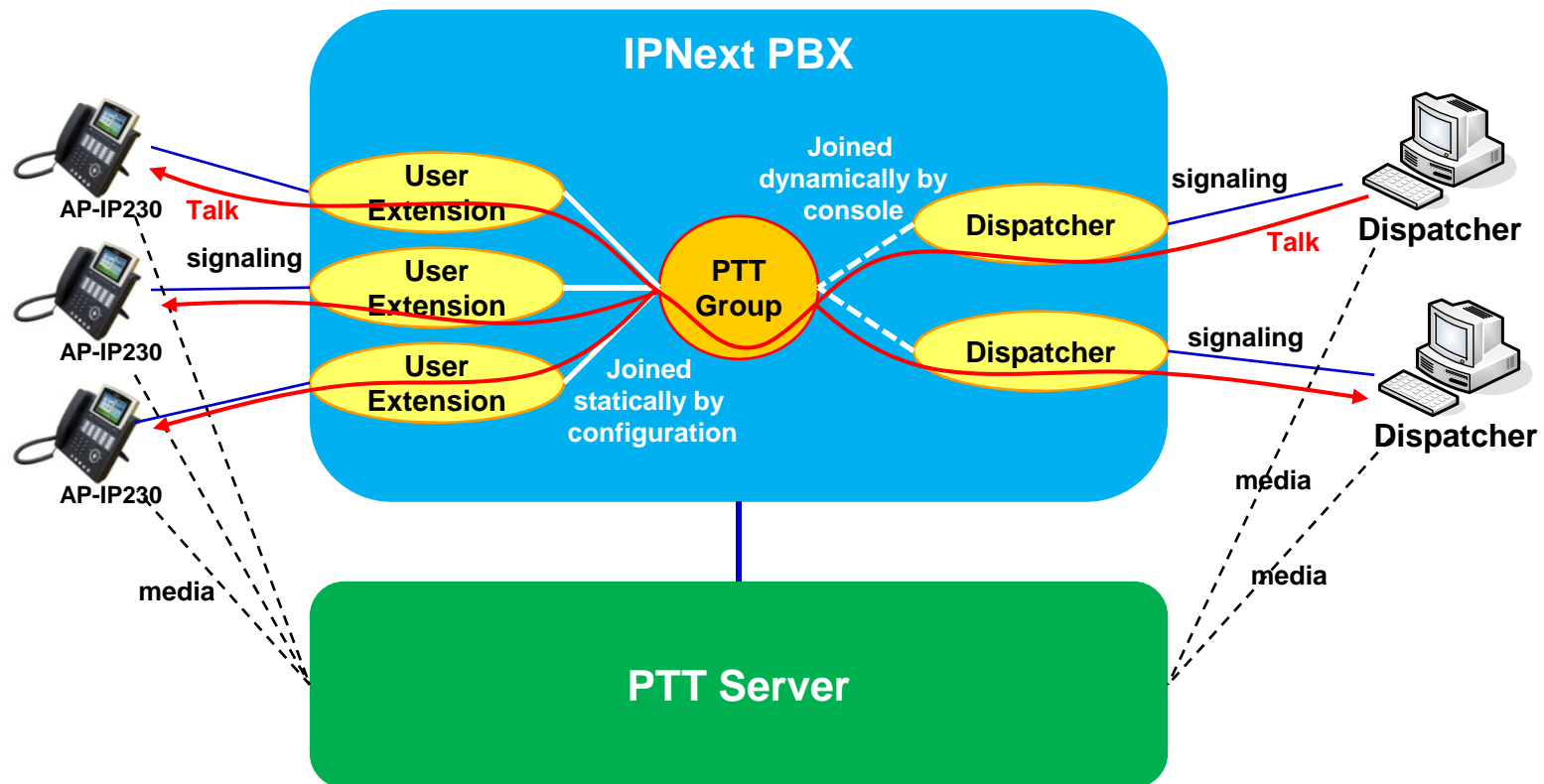
- A PTT Phone Group (a.k.a. PTT Group) has members of user extensions who will receive broadcasting announcement with auto answering and also can be a talker by pushing the talk button.
- PTT IP Phones or PTT Apps join to it statically by configuration, and dispatchers or other extensions can join to it dynamically by dispatch console.

- **User Extension**

- A user extension is an IP Phone (SIP / SSCP phone) or a soft phone for end user. (The SSCP is enhanced SIP with XML based feature control protocol.)

PTT(Push to Talk) Phone Group and User Extension

PTT IP Phone and PTT Apps



PTT Group Activation/Deactivation

To Start/Stop PTT Session

- **PTT Group Activation**

- Before PTT talking, a PTT Group should be activated to start PTT session. During the PTT session, members can talk to each other.
- A dispatch console can activate it by pressing *Activate* button in PTT Group tile.
- Also, one of PTT Group member can activate it by dialing to PTT Group extension number.

- **PTT Group Deactivation**

- After all talks, the PTT Group can be deactivated to close the PTT session.
- A dispatch console can deactivate it at PTT Group tile menu.
- Also, if all members are left from the PTT session, it will be closed.
- Optionally, when initiator (i.e., activator) leave from the PTT session, the PTT session will be closed.

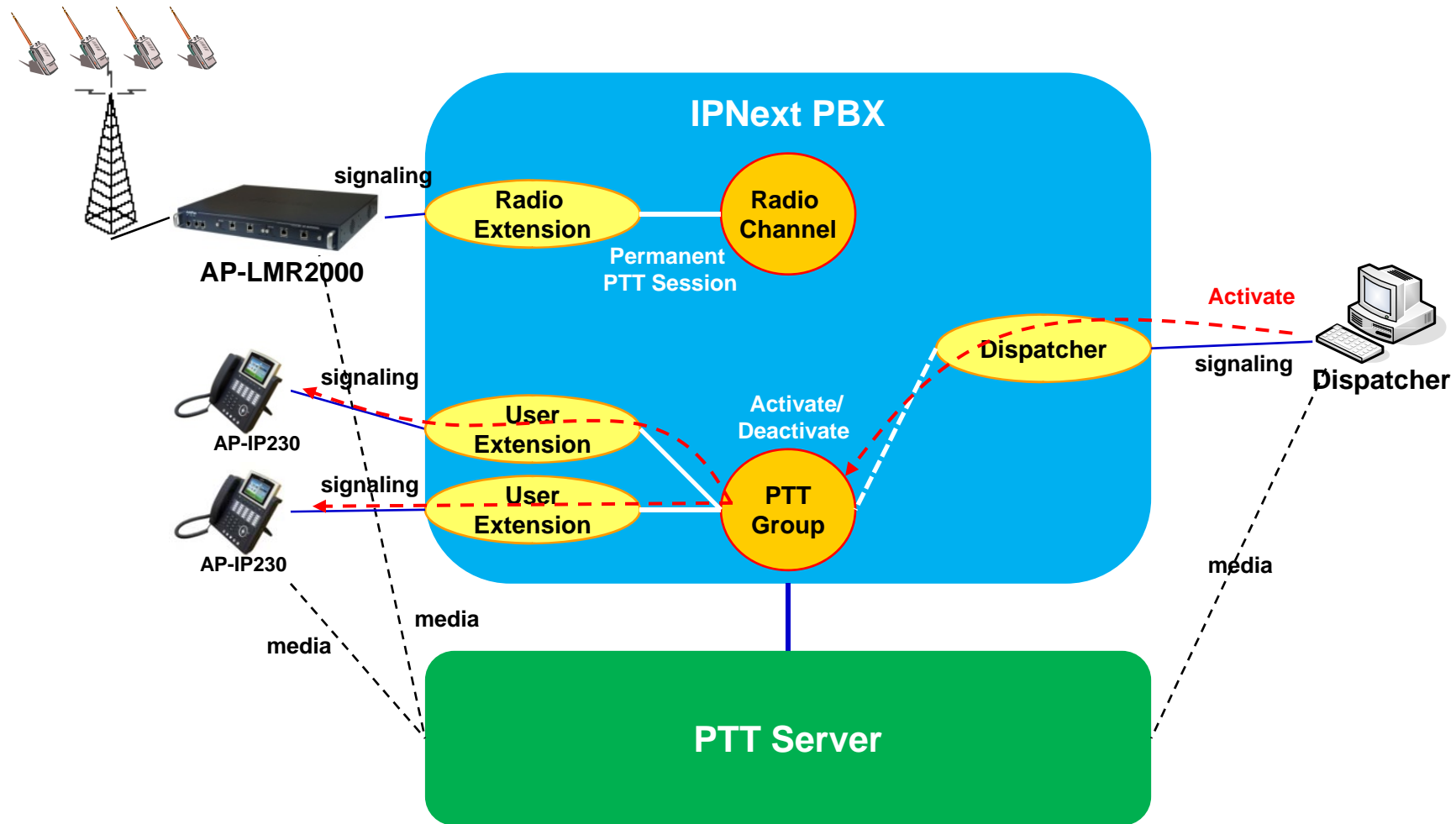
Radio Channel's PTT Session

Permanent Session

- When the RoIP gateway is booting up, a PTT session will be created automatically.
- This means that a PTT Session of Radio Channel is permanent during RoIP gateway is running.
- If the RoIP gateway is abnormal, the Radio Channel in work space shows abnormal status.

PTT Group Activation/Deactivation

To Start/Stop PTT Session



PTT Session Join/Leave

To Monitor and Talk to PTT Session

- **Dispatcher**

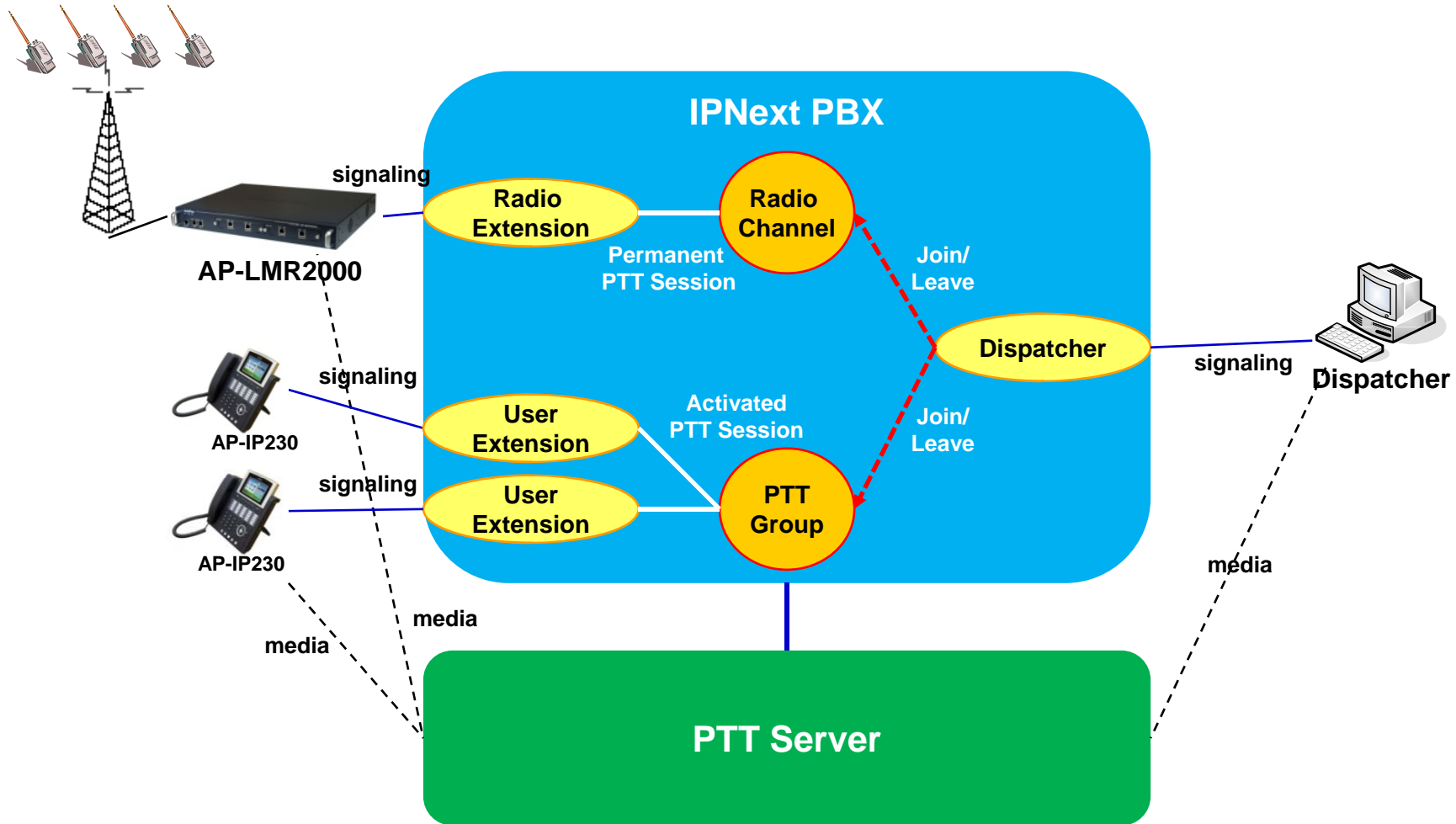
- In case of dispatcher, he can join to a PTT session by simply dragging the Radio Channel or PTT Group from list to a work space.
- After join to the session, he can monitor talks from remote and also talk to them.
- He can leave from the session by closing the Radio Channel tile or PTT Group tile in the work space.

- **PTT Phone Group Member**

- In case of phone as a member, he can leave the PTT session by hang on the call. And then, he can rejoin to it by call to PTT Group extension number.

PTT Session Join/Leave

To Monitor and Talk to PTT Session



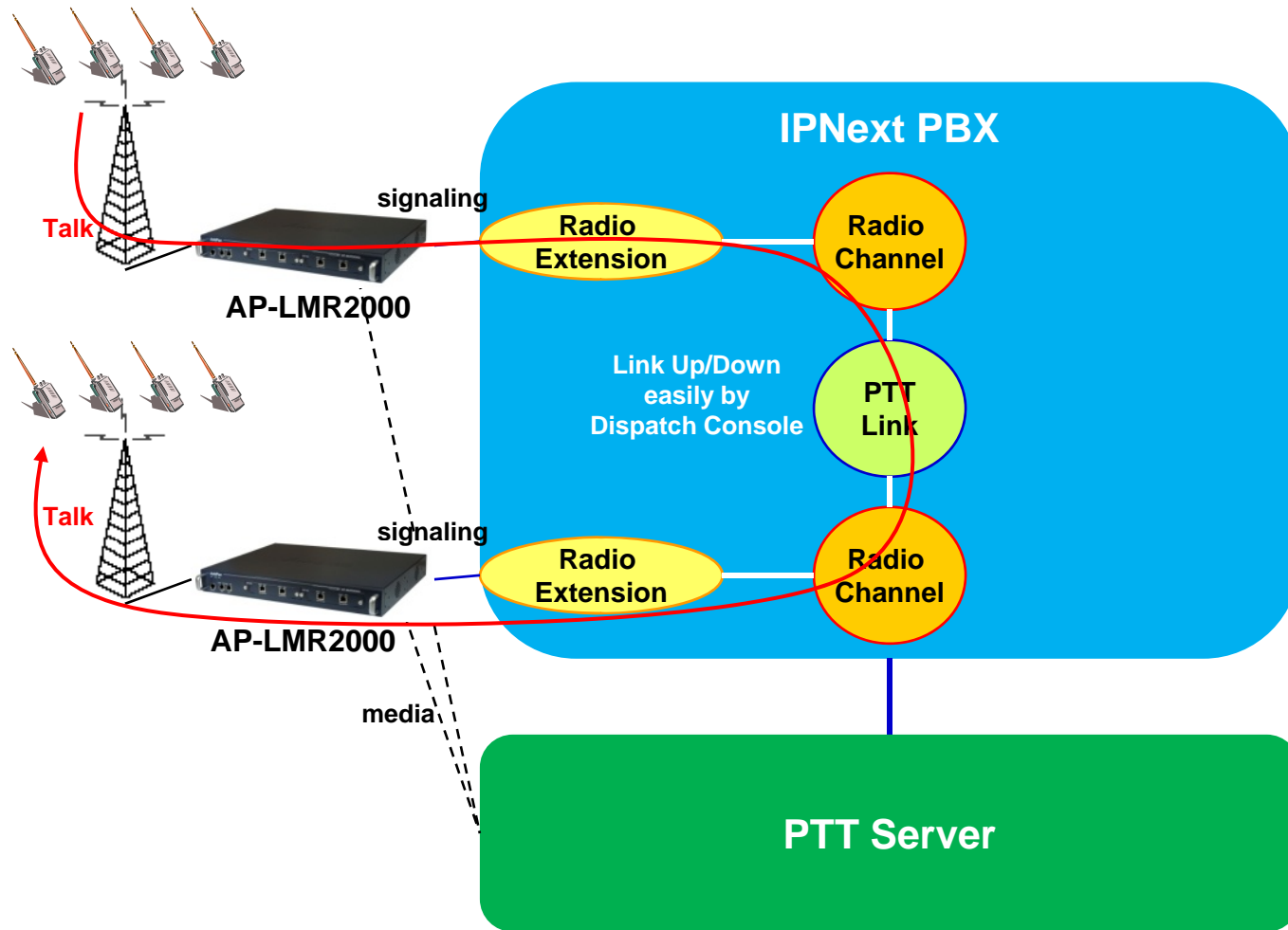
PTT Link

To Link between Radio Channels and PTT Groups

- A PTT Link has members of two or more Radio Channels and PTT Groups.
- If Radio Channels and PTT Groups are linked together, they act as one PTT Group.
- Using PTT Link, multiple Radio Channels can be linked together to overcome regional limit.
- A Radio Channel or a PTT Group can be a member of multiple PTT Links.
- However, it can not be linked in more than two active PTT Links.

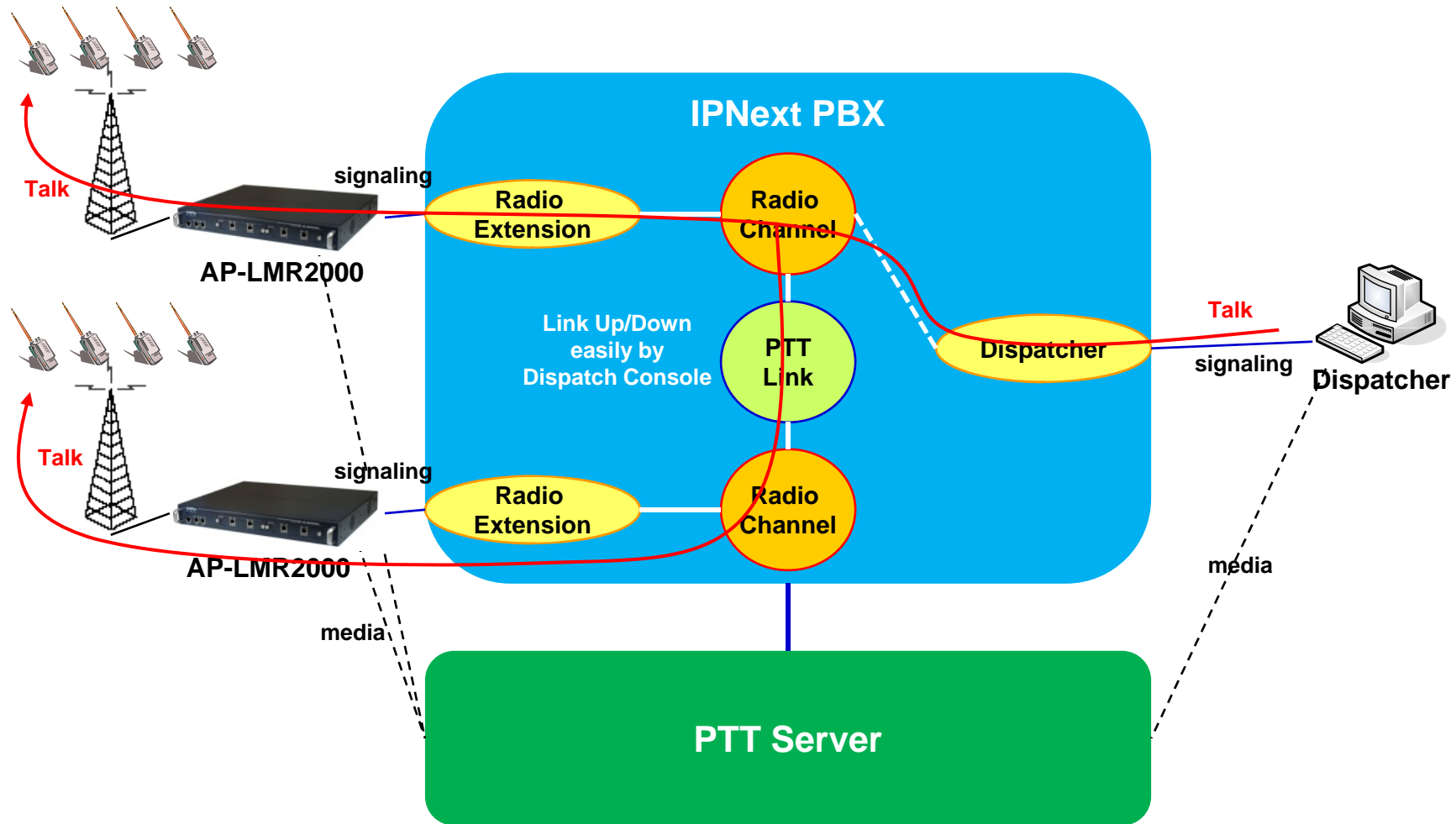
PTT Link

Link Between Two Radio Channels



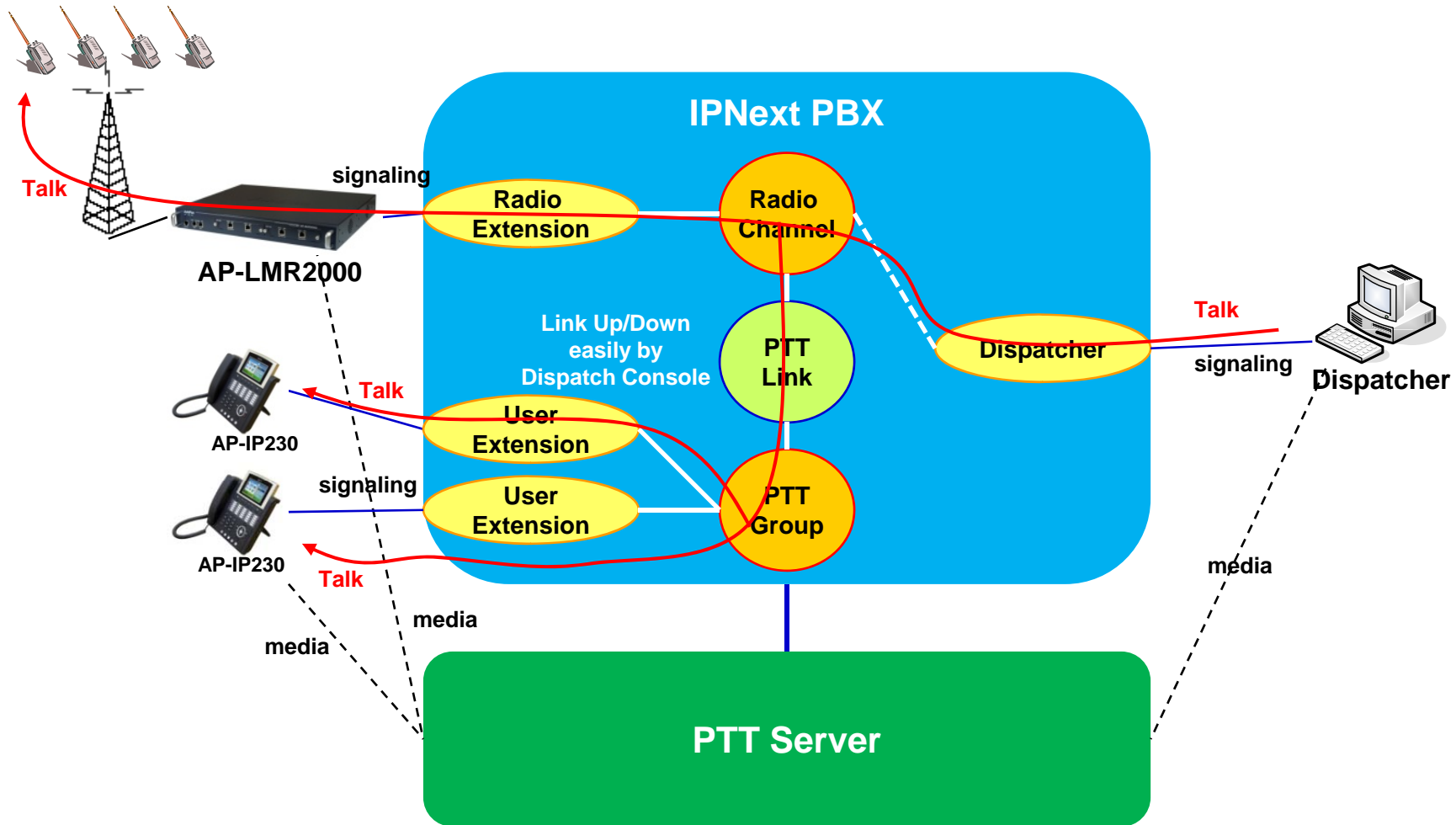
PTT Link

Link Between Two Radio Channels



PTT Link

Link Between Radio Channel and PTT Phone Group



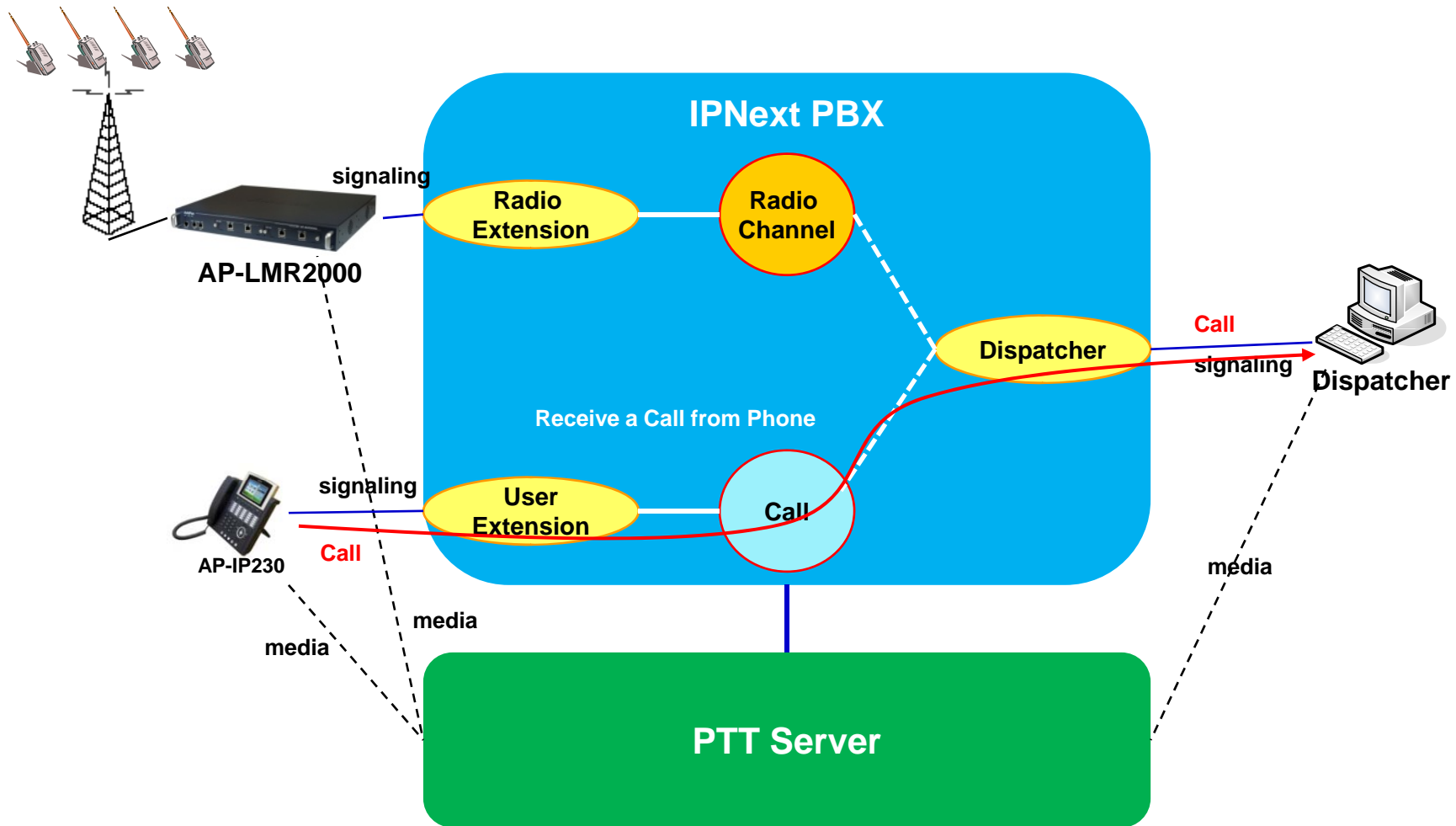
Patch a Call to Radio Channel

To Join Non-member User to a Radio Channel/PTT Group

- PSTN phone or other extension can be patched to active PTT Group or Radio Channel by dispatch console.
- **Step 1)** A dispatch console receives a call or making a call to other extension or PSTN user.
- **Step 2)** After established the call, the dispatcher can patch the call to a Radio Channel or PTT Group.
- **Step 3)** The patched call can be dropped by the user or by dispatch console.

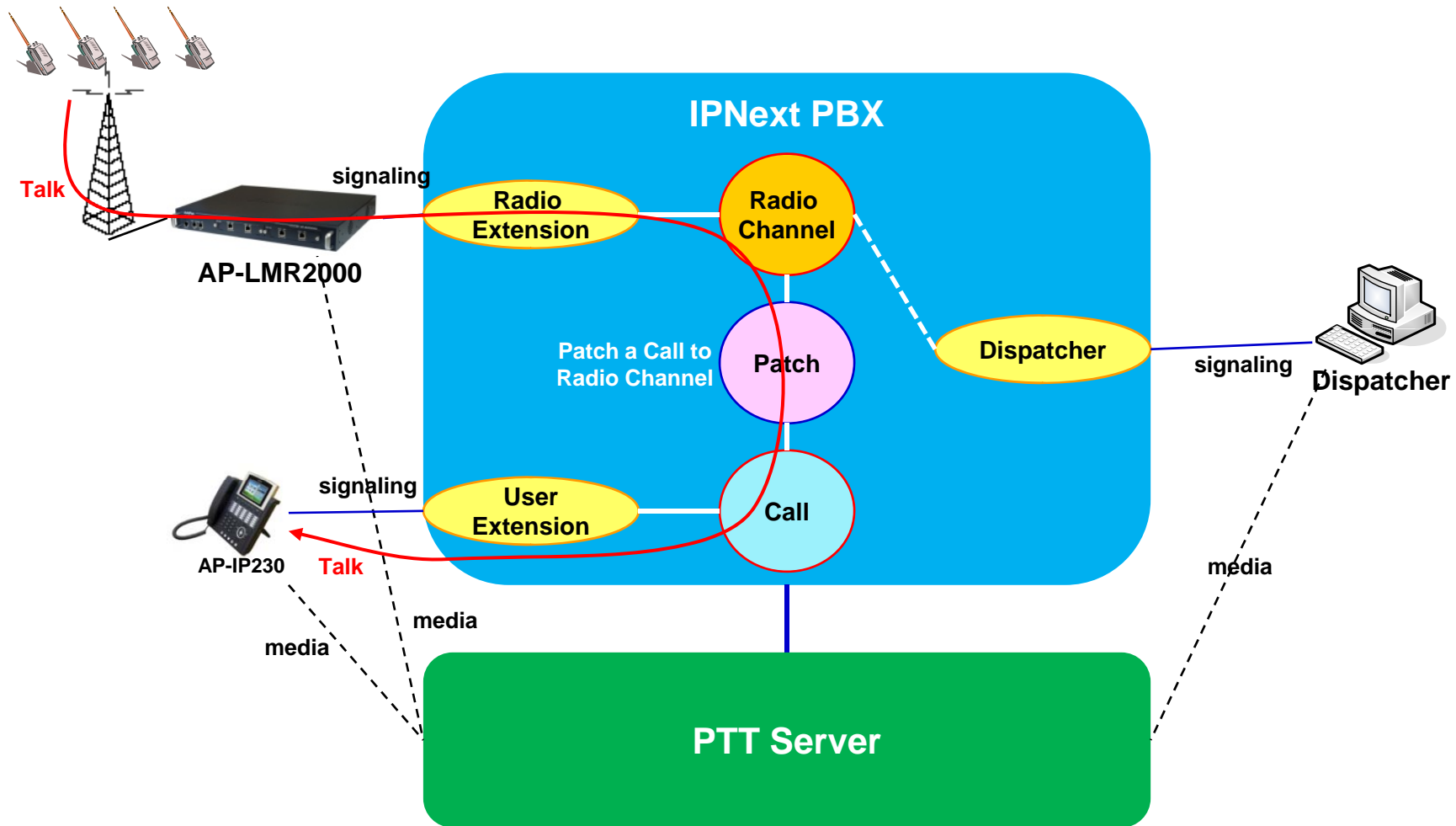
Patch a Call to Radio Channel/PTT Group

Step 1 : Receive a Call from Phone



Patch a Call to Radio Channel/PTT Group

Step 2 : Patch a Call to Radio Channel



WSMM (Web based Smart Multimedia Manager) for PTT Solution

Smart Multimedia Manager
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System configuration modified!
Click here to save it.

Start

Welcome to AddPac IP-PBX

root (Administrator)
Last Login at January 01 11:07:54 AM(172.17.207.1)

Unread Alarm Message 196

HostRouter, Category:SERVER, PTS3000:RemoteMedi...	2015-01-08 08:34:24
HostRouter, Category:Telnet, Login from 172.17....	2015-01-07 05:48:37
HostRouter, Category:Telnet, Login from 172.17....	2015-01-07 03:45:06

Quick Menu

- > Add an Extension
- > Add an Incoming Call Rule
- > Trunks
- > Add a Trunk
- > Extensions
- > Active Call Monitoring
- > Add an Outgoing Call Rule
- > Terminals

Status

User Extensions

Registered (5)
Unregistered (201)
Unconfigured (0)
Unused license (394)

System

AddPac IPNEX7000NW_G2 (172.17.108.161)

AddPac IPNEX7600NW_G2 (172.17.108.160)

Memory 8%

Storage 6%

Network

Call Manager	0/100
MCU	0/2
Presence	0/600
IVR	0/100
Media	0/200
UMS	0/100
PTT	0/100
RtpProxy	0/200

Trunks

172.17.205.25 (0/0)

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Main Features

WSMM for PTT Service

- AddPac Telephony system management application (IPNext IP-PBX, Smart Directory Server, MCU, PS, RBT, UMS, Phone, etc)
- System Configuration
- System Monitoring
- System Call Monitoring
- System Call History
- System Statistics and Report
- System Fault Management
- LDAP Data Management



Add a Radio Extension

WSMM for PTT Service

The screenshot displays the Smart Multimedia Manager (WSMM) interface. The top navigation bar includes 'Start' and 'Extensions'. A table lists various extensions, including Radio Extensions and Radio Channels. Below the table, the 'Add an Extension' dialog is open, showing a 'Cancel' button and a description of a Radio Extension. A yellow callout box highlights the description text.

Extension ID	Extension Name	Extension Type	Extension Number	Extension Description	Creation Date
512	Radio Extension	Radio Extension	4206	LMR2000_6	2017-01-09 14:36:07
513	Radio Extension	Radio Extension	4207	LMR2000_7	2017-01-09 14:36:33
514	Radio Extension	Radio Extension	4208	LMR2000_8	2017-01-09 14:36:56
515	Radio Extension	Radio Extension	4209	LMR2000_9	2017-01-09 14:37:17
516	Radio Extension	Radio Extension	4210	LMR2000_10	2017-01-09 14:37:41
517	Radio Channel	Radio Channel	4521	LMR2000 - 1	2017-01-09 14:38:56
518	Radio Channel	Radio Channel	4522	LMR2000 - 2	2017-01-09 14:39:15
519	Radio Channel	Radio Channel	4523	LMR2000 - 3	2017-01-09 14:39:33
520	Radio Channel	Radio Channel	4524	LMR2000 - 4	2017-01-09 14:40:03
521	Radio Channel	Radio Channel	4525	LMR2000 - 5	2017-01-09 14:40:19

Add an Extension

Radio Extension
A radio extension is an extension for an E&M port of RoIP (Radio over IP) gateway. The RoIP gateway should register to this system as an extension.

Add a Radio Extension :
A radio extension is an extension for an E&M port of RoIP (Radio over IP) gateway. The RoIP gateway should register to this system as an extension.

Push-to-Talk Group
A PTT (Push to Talk) group has members of user extensions who will receive broadcasting announcement with auto answering and also can be a talker by pushing the talk button. This is half-duplex two-way broadcasting.

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Edit a Radio Extension

WSMM for PTT Service

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Start | Extensions

ID	Extension	Name	Type	Extension	Created
21	4209	Radio Extension	LMR2000_9	2017-01-09 14:37:17	
22	4208	Radio Extension	LMR2000_8	2017-01-09 14:36:56	
23	4207	Radio Extension	LMR2000_7	2017-01-09 14:36:33	
24	4206	Radio Extension	LMR2000_6	2017-01-09 14:36:07	
25	4205	Radio Extension	LMR2000_5	2017-01-09 14:35:41	

Status: 4201

Modify the Radio Extension

Apply | Cancel | Advanced Options

Radio Extension

Extension * 4201 (2~12 digits) **Extension number**

Name * LMR2000_1

SIP Username 4201 **SIP Username and Password for registration**

SIP Password * lmr21111 For SIP, UMS, Presence registration

Routing Access List

Routing Access

Advanced Options

Partition internal

Address Pool default

Terminal Profile default

Security Profile default

Device Pool default

Location N/A

General Settings

Description

A radio extension is an extension for an E&M port of RoIP (Radio over IP) gateway. The RoIP gateway should register to this system properly using the radio extension's ID and password. This radio extension can be a static member of an Radio Channel.

Related Links

- IPNext User Portal
- Routing Access Lists
- Terminal Profiles
- Security Profiles
- Pickup Group
- Address Pool
- Device Pool
- Location
- AAR
- Radio Channel

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Partitioning Guide GO

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Add a Radio Channel

WSMM for PTT Service

The screenshot displays the Smart Multimedia Manager (WSMM) interface. The top navigation bar includes 'Start', 'Extensions', 'Status', 'PTT Link', and 'Add an Extension'. The main content area shows a table of radio channels and a detailed view of a 'Radio Channel'.

Extension	Radio Extension	Channel Name	Created
512	4206	LMR2000_6	2017-01-09 14:36:07
513	4207	LMR2000_7	2017-01-09 14:36:33
514	4208	LMR2000_8	2017-01-09 14:36:56
515	4209	LMR2000_9	2017-01-09 14:37:17
516	4210	LMR2000_10	2017-01-09 14:37:41
517	4521	LMR2000 - 1	2017-01-09 14:38:56
518	4522	LMR2000 - 2	2017-01-09 14:39:15
519	4523	LMR2000 - 3	2017-01-09 14:39:33
520	4524	LMR2000 - 4	2017-01-09 14:40:03
521	4525	LMR2000 - 5	2017-01-09 14:40:19

Add a Radio Channel:
A radio channel represents a PTT radio channel which has a radio extension statically. Dispatchers and other extensions can join to the radio channel dynamically by dispatch console to communicate with radio terminals on the channel.

Radio Channel
A radio channel represents a PTT radio channel which has a radio extension statically. Dispatchers and other extensions can join to the radio channel dynamically by dispatch console to communicate with radio terminals on the channel.

Push-to-Talk Group
A PTT (Push to Talk) group has members of user extensions who will receive broadcasting announcement with auto answering and also can be a talker by pushing the talk button. This is half-duplex two-way broadcasting.

Edit a Radio Channel

WSMM for PTT Service

The screenshot displays the 'Smart Multimedia Manager' interface. At the top, a table lists various radio channels and extensions. Below this, the 'Modify the Radio Channel' form is shown with several fields and settings. Callouts point to specific fields: 'Extension number' points to the 'Extension *' field (value: 4521), 'Audio Codec' points to the 'Audio Codec' dropdown (value: G.711U), and 'Radio Extension' points to the 'Radio Extension' dropdown (value: LMR2000_1). Two other callouts describe settings: 'Max Session Idle Time' (value: 15) and 'Max Talk Hold Time' (value: 30).

ID	Extension	Type	Name	Created
17	4523	Radio Channel	LMR2000 - 3	2017-01-09 14:39:33
18	4522	Radio Channel	LMR2000 - 2	2017-01-09 14:39:15
19	4521	Radio Channel	LMR2000 - 1	2017-01-09 14:38:56
20	4210	Radio Extension	LMR2000_10	2017-01-09 14:37:41
21	4209	Radio Extension	LMR2000_9	2017-01-09 14:37:17
22	4208	Radio Extension	LMR2000_8	2017-01-09 14:36:56

Modify the Radio Channel

Extension * (2-12 digits)

Name *

Audio Codec

Radio Extension

Partition

Group Priority

Max Session Idle Time seconds

Max Talk Hold Time seconds

Multicast

Description

A radio channel represents a PTT radio channel which has a radio extension statically. Dispatchers and other extensions can join to the radio.

Max Session Idle Time
The default value is 15 seconds.
If this PTT session is idle more than this value after releasing talk, this session will be closed automatically.

Max Talk Hold Time
The default value is 30 seconds.
If the talker seizes this PTT session more than this value without releasing PTT, the talk will be released automatically.

Add a PTT Group

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Extensions

Start Extensions

Extensions

All Extensions Input an Extension Search Advanced Search Add an Extension Refresh

	Modify	Delete	User Portal	Extension Number	Type	Name	Date Created
1				1018	User Extension	1018 1018	2015-12-31 15:46:04
2				1019	User Extension	1019 1019	2015-12-31 15:46:05

Status Add an Extension

Add an Extension

Cancel

Dispatcher
A dispatcher is an extension for an PTT operator who login to dispatch console using his own id and password. A dispatcher can call to other extensions using his extension number.

Radio Channel
A radio channel represents a PTT radio channel which has a radio extension statically. Dispatchers and other extensions can join to the radio channel dynamically by dispatch console to communicate with radio terminals on the channel.

Push-to-Talk Group
A PTT (Push to Talk) group has members of user extensions who will receive broadcasting announcement with auto answering and also can be a talker by pushing the talk button. This is half-duplex two-way broadcasting.

Paging Group
A paging group has members of user extensions who will receive broadcasting announcement with auto answering and also can be a talker by pushing the talk button. This is half-duplex two-way broadcasting.

Attendant Queue
The Attendant Queue is a group of user extensions who will receive broadcasting announcement with auto answering and also can be a talker by pushing the talk button. This is half-duplex two-way broadcasting.

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Edit a PTT Group

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System configuration modified!
Click [here](#) to save it.

Modify the PTT Group

Apply Cancel Advanced Options

PTT Group Number

Audio Codec

PTT Group Members

Push-to-Talk Group

Extension * 9000 (2~12 digits)

Name * PTT Performance Test

Audio Codec G.711U

Extensions

Extension	Name	Extension

PTT Group Members

Name	Extension	Display Name
5000 5000	5000	
5001 5001	5001	
5002 5002	5002	
5003 5003	5003	
5004 5004	5004	
5005 5005	5005	
5006 5006	5006	
5007 5007	5007	
5008 5008	5008	
5009 5009	5009	

Specify Phone Number:

Description

A PTT (Push to Talk) group has members of user extensions who will receive broadcasting announcement with auto answering and also can be a floor (speaker role) by pushing the talk button. This is half-duplex two-way broadcasting. Only a group member can make a PTT session by dialing the PTT extension number.

Related Links

- User Extension
- Partitions

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Advanced Options

WSMM for PTT Service

The screenshot shows the 'Smart Multimedia Manager' interface with the 'Modify the PTT Group' window open. The 'Advanced Options' section is expanded, showing settings for 'Max Session Idle Time' (15), 'Max Floor Hold Time' (30), 'Close on Initiator Out' (checked), and 'Multicast' (unchecked). The 'General Settings' section shows 'Partition' set to 'internal' and 'Group Priority' set to 3. The 'Multicast Settings' section shows 'Multicast' set to 'No'. The interface also includes a sidebar with navigation options like 'Extensions', 'Trunks', 'PBX Services', and 'System Admin'. A notification at the top right indicates 'System configuration modified!'.

Max Session Idle Time
The default value is 15 seconds.
If this PTT session is idle more than this value after releasing floor, this session will be closed automatically.

Max Talk Hold Time
The default value is 30 seconds.
If the talker seizes this PTT session more than this value without releasing PTT, the talk will be released automatically.

Close on Initiator Out
This is enabled by default. When enabled, this PTT session will be close when the initiator who make this session by dialing PTT extension digits is out from this session.

Multicast
This is disabled by default.
If enabled this PTT is broadcast to member extensions by IP Multicasting with **multicast IP Address, and audio Port**.
For using IP multicast, please ask to your network operator.

Add a Dispatcher

WSMM for PTT Service

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Start Extensions

Extensions

All Extensions Input an Extension Search Advanced Search Add an Extension Refresh

	Modify	Delete	User Portal	Extension Number	Type	Name	Date Created
1				1018	User Extension	1018 1018	2015-12-31 15:46:04
2				1019	User Extension	1019 1019	2015-12-31 15:46:05

Status Add an Extension

Add an Extension

Cancel

Dispatcher
A dispatcher is an extension for an PTT operator who login to dispatch console using his own id and password. A dispatcher can call to other extensions using his extension number.

Radio
A radio channel extension.

Push-to-Talk
A PTT (Push-to-Talk) answering machine.

Paging Group
A paging group has members of user extensions who will receive broadcasting announcement with auto answering by speaker phone. This is half-duplex one-way broadcasting.

Attendant Queue
The Attendant Queue is used for attendants of organization or call center. When a call is inbound from trunk or extensions to this queue number, the call will be queued and picked up or distributed to one of queue member and handled by them. Currently, the queue member needs Smart Attendant Console software running on PC.

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Status Add an Extension PTT Group 1000

Modify the Dispatcher

Apply Cancel Advanced Options

Extension *	1000	(2-12 digits)
First Name *	1000	
Last Name *	1000	
User ID *	1000	User portal login
SIP Username	1000	SIP registration ID
SIP Password *	addpac123	For SIP, UMS, ... registration
Voice Mail Password *	4
Dispatcher	Department	/ Search
	Title	ex) manager
	Email	ex) pbx@example.com
	Home Phone	ex) 0234567890
	Mobile Phone	ex) 0234567890
	Photo	(Maximum File Size: 150KB) Select Photo

Description
A dispatcher is an extension for an PTT operator who login to dispatch console using his own id and password. A dispatcher can call to other extensions using his extension number.

Related Links
• Terminal Profiles
• Security Profiles
• Pickup Group
• Address Pool
• Device Pool
• Location
• AAR

Routing Access

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Add a PTT Link

WSMM for PTT Service

Radio Channel Member
Joined Radio Channels will send/receive PTT call as one PTT Group

PTT Group Member
Joined PTT Groups will send/receive PTT call as one PTT Group

PTT Server

WSMM for PTT Service

The screenshot displays the Smart Multimedia Manager (WSMM) interface. The top navigation bar includes tabs for Extensions, Routing Access Lists, Outgoing Call Rules, Incoming Call Rules, Extensions, Operational Servers, and Active Push-to-Talk. A notification in the top right corner states "System configuration modified! Click here to save it." The left sidebar contains a menu with items like Extensions, Trunks, PBX Services, System Admin, Servers, Smart Directory Servers, Operational Servers, Device Pool, Address Pool, Advanced, Monitoring, and Summary. The main content area is divided into two sections: "Operational Servers" and "Modify Server".

Operational Servers Table:

	Modify	Delete	Name	Model	IP Address	Service	Date Created
1	[icon]	[icon]	AddPac IPNEX600NW_G2	IPNEX600NW	172.17.108.160	CM PRES RBT UMS RTP MCU...	2015-01-01 09:00:07
2	[icon]	[icon]	AddPac IPNEX600NW_G2	IPNEX600NW	172.17.108.161	CM P	10
3	[icon]	[icon]	MC3000	AP-MC3000	172.17.207.13	CM M	27
4	[icon]	[icon]	PTS3000	PTS3000	172.17.205.30	PTT	2015-01-08 08:34:16

Modify Server Form (for PTS3000):

General Settings:

- Name: PTS3000
- Model: PTS3000
- MAC Address: 0002.a4ff.2400
- Version: 8.50.013

Server Connection Information:

- Login ID: root
- Password: *****
- HTTP Port: 80 (default: 80)
- FTP Port: 21 (default: 21)

Server Connection Table:

	Network Domain	IP Address	Version	Server Connection	Modify
1	public	172.17.205.30	inv4	[icon]	[icon]

Description:

The Operational Servers are Call Manager and Application Servers which are MCU, Presence Server, RBT Server, Server, ver. ers are onal domain by Idapclient CLI at the system.

Active PTT Session

WSMM for PTT Service

The screenshot displays the Smart Multimedia Manager (WSMM) interface. The top navigation bar includes 'Start' and 'Active Push-to-Talk' tabs. A notification in the top right corner states 'System configuration modified! Click here to save it.' The left sidebar contains a menu with categories like 'Extensions', 'Trunks', 'PBX Services', 'System Admin', 'Servers', 'Advanced', and 'Monitoring'. The main content area is titled 'Active Push-to-Talk' and features a 'Refresh' button. Below this, there is a section for 'Active PTT & Paging Session' with a table showing session details. A yellow callout box labeled 'Active PTT Session' points to the first row of this table. Underneath, the 'Participants of the PTT & Paging Session (LMR PTT Group:9000)' section contains a table listing individual participants. A second yellow callout box labeled 'Active PTT Participants' points to the first row of this table. The bottom of the interface shows a 'Status' bar and footer information including 'Copyright © AddPac 1999-2016 All Rights Reserved' and 'Version 1.2.150422'.

Name	Extension	Service Type	Media Type	Start Time	Duration	Server Name
1 LMR PTT Group	9000	PTT	Audio	2016-03-14 15:51:19	00:01:08	172.17.205.30

Name	Extension	IP Address	Status
1 5021 5021	5021	172.16.1.69	Joined
2 5044 5044	5044	172.16.1.69	Joined
3 IP300S C	1002	172.17.207.40	Joined
4 5022 5022	5022	172.16.1.69	Joined
5 5045 5045	5045	172.16.1.69	Joined
6 5000 5000	5000	172.16.1.69	Joined
7 5023 5023	5023	172.16.1.69	Joined
8 5046 5046	5046	172.16.1.69	Joined
9 5001 5001	5001	172.16.1.69	Joined
10 5024 5024	5024	172.16.1.69	Joined
11 5047 5047	5047	172.16.1.69	Joined
12 5002 5002	5002	172.16.1.69	Joined
13 5025 5025	5025	172.16.1.69	Joined
14 5048 5048	5048	172.16.1.69	Joined
15 5003 5003	5003	172.16.1.69	Joined
16 5026 5026	5026	172.16.1.69	Joined
17 5049 5049	5049	172.16.1.69	Joined

Active PTT Link

WSMM for PTT Service

The screenshot displays the Smart Multimedia Manager (WSMM) interface. The left sidebar contains navigation options: Extensions, Trunks, PBX Services, Servers, Advanced, Monitoring, System Admin, and Summary. The main content area is titled "Active Push-to-Talk" and includes a "Refresh" button. Below this, there are tabs for "Radio Channel & Group", "PTT Link", and "Di...".

The "Active PTT Link" section shows a table with the following data:

Name	Link Up Time	Members	Duration	Server Name	Link Down
1 4th floor link group	2017-01-09 18:1...	0/3	67:58:42	AddPac IPNEXT10000W	

Below this table, the "Member of selected link (4th floor link group)" section shows another table:

Name	Channel & Group Status	Link Status
1 A13 area talk group	Deactivated	Unjoined
2 2nd floor - 9801	Unavailable	Unjoined
3 workoffice PTT	Deactivated	Unjoined

The "Status" section at the bottom provides a visual overview of the system components: User Extensions (represented by a phone icon), System (containing MCU-i7-skylake (172.17.50.33) and AddPac IPNEXT10000W (172.17.50.26)), and Trunks (represented by server racks). Below the system diagram, there are resource usage indicators: Memory (53%), Storage (2%), and Call Manager (0/10000). A list of trunks is shown on the right:

Trunk Name	Status
H323_GK_I7	(0/0)
MC6000	(0/0)
172.17.50.25	(0/0)

Yellow callout boxes highlight "Active PTT Link" and "PTT Link members".

Active Dispatcher

WSMM for PTT Service

The screenshot displays the Smart Multimedia Manager (WSMM) interface. The top navigation bar includes 'Start' and 'Active Push-to-Talk'. The left sidebar contains various menu items: Extensions, Trunks, PBX Services, Servers, Advanced, Monitoring (with sub-items like Active Calls, Parked Calls, Call Admission Control, Active Conference Rooms, Active Push-to-Talk, Active Paging, Active Presence, Call History, PTT History), System Admin, Summary, Getting Started, Clustering Guide, and Partitioning Guide. A 'Logged in Dispatchers' callout points to a table of active dispatchers.

ID	Name	Extension Number	Login Time	IP Address
1	1000 1000	1000	2017-01-12 13:53:24	172.16.1.19

The bottom section shows a 'Status' overview with a 'Refresh' button. It includes a 'User Extensions' section with a phone icon, a 'System' section with two server units (MCU-I7-skylake and AddPac IPNEXT10000W) and resource usage bars for Memory (53%), Storage (2%), and Network. A 'Trunks' section shows a cloud icon and a list of trunk configurations: H323_GK_I7 (0/0), MC5000 (0/0), and 172.17.50.25 (0/0). The footer contains copyright information and the version number 1.3.170103.

PTT History

WSMM for PTT Service

Smart Multimedia Manager
www.addpac.com

Start PTT History

PTT History

Search Conditions: 2017-01-20 2017-01-21 Search

ID	Date Time	Level	Message
24	2017-01-20 11:5...	Notice	PTT Group 'A13 area talk group' is deactivated.
23	2017-01-20 11:4...	Notice	PTT Group 'workoffice PTT' is deactivated by Dispatcher '1000 1000'.
21	2017-01-20 11:4...	Notice	PTT Link '4th floor link group' is up by Dispatcher '1000 1000'.
22	2017-01-20 11:4...	Notice	PTT Group 'workoffice PTT' is activated by PTT Link '4th floor link group'.
20	2017-01-20 11:4...	Notice	PTT Link '3rd floor link group' is down by Dispatcher '1000 1000'.
19	2017-01-20 11:4...	Notice	PTT Group 'workoffice PTT' is deactivated.
17	2017-01-20 11:4...	Notice	PTT Group 'workoffice PTT' is deactivated.
18	2017-01-20 11:4...	Notice	PTT Link '4th floor link group' is down by Dispatcher '1000 1000'.
16	2017-01-20 11:4...	Notice	PTT Group 'A14 area talk group' is deactivated by Dispatcher '1000 1000'.
14	2017-01-20 11:4...	Notice	PTT Group 'A14 area talk group' is deactivated.
15	2017-01-20 11:4...	Notice	PTT Group 'A14 area talk group' is activated by Dispatcher '1000 1000'.
13	2017-01-20 11:4...	Notice	PTT Group 'A14 area talk group' is activated by Dispatcher '1000 1000'.
11	2017-01-20 11:4...	Notice	PTT Group 'A14 area talk group' is activated by Dispatcher '1000 1000'.
12	2017-01-20 11:4...	Notice	PTT Group 'A14 area talk group' is deactivated.
8	2017-01-20 11:4...	Notice	PTT Group 'workoffice PTT' is deactivated.
9	2017-01-20 11:4...	Notice	PTT Group 'A13 area talk group' is activated by Dispatcher '1000 1000'.

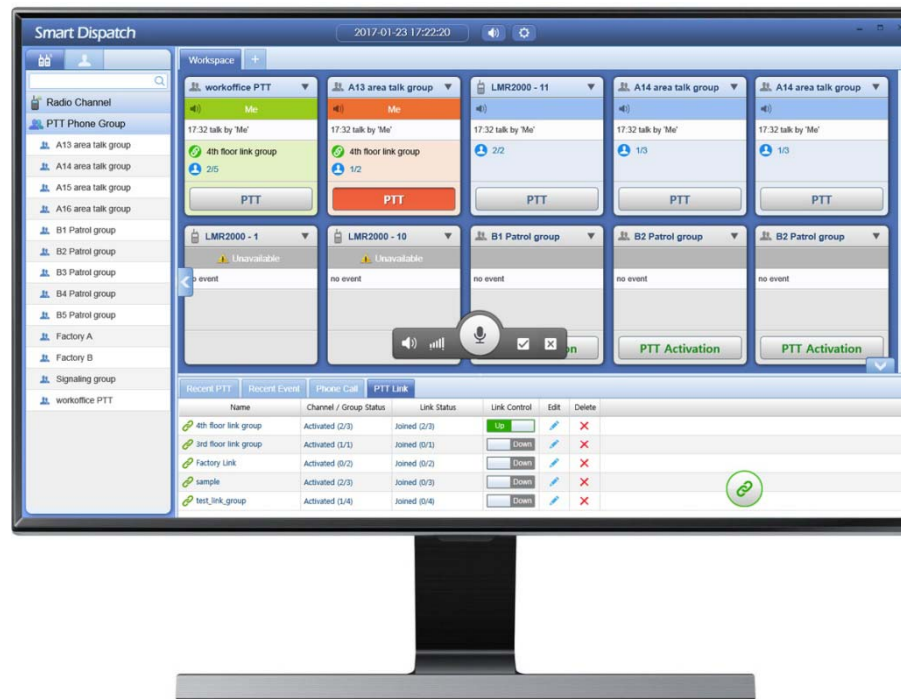
PTT Event Log

User Extensions System Trunks

MCU-i7-skylake (172.17.50.33)

Copyright © AddPac 1999-2017 All Rights Reserved Version 1.3.170119

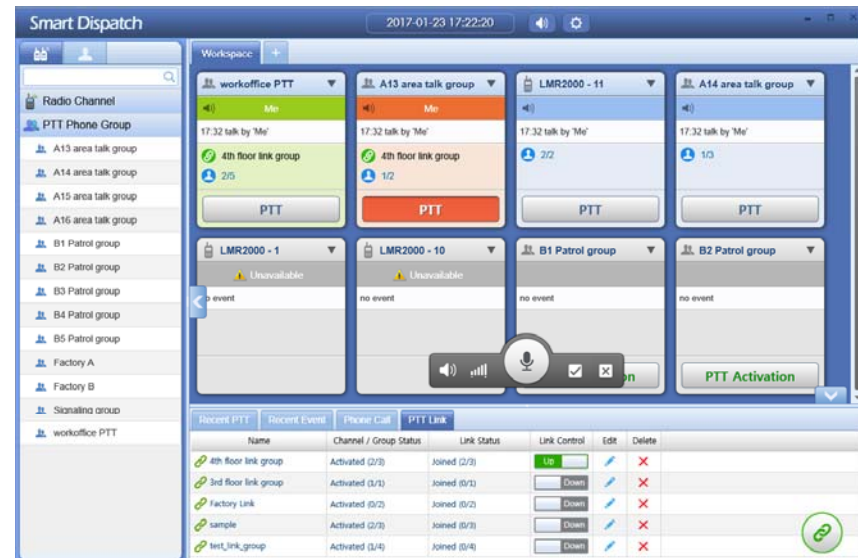
Smart Dispatcher for PTT Solution



Main Features

Dispatch Console for PTT Service

- Work Space Management for Monitoring Radio Channels and PTT Phone Groups
- Tile Management for Controlling a Radio Channel or a PTT Phone Group
- 1:1 PTT and 1:N PTT
- PTT Link Management
- Contact List for Making a Phone Call
- Phone Call Management
- Active PTT List
- PTT History
- Event History



Smart Dispatcher UI Layout

Settings
All Channel and Group Mute/Unmute

Radio Channels
- Add to work space
- Delete from work space

PTT Phone Groups
- Add to work space
- Delete from work space

Multiple Work Spaces

Radio Channel Tile

PTT Phone Group Tile

Work Space Controller
- PTT to multi groups in a work space
- Mute all groups in a work space
- (Un)select all

Panel
- Recent PTT event
- Recent Event
- Phone Call
- PTT Link

2017-01-23 17:22:20

Workspace +

workoffice PTT

A13 area talk group

LMR2000 - 11

A14 area talk group

4th floor link group

4th floor link group

2/5

1/2

PTT

PTT

PTT

PTT

LMR2000 - 1

LMR2000 - 10

B1 Patrol group

B2 Patrol group

Unavailable

no event

no event

no event

Recent PTT | Recent Event | Phone Call | PTT Link

Name	Channel / Group Status	Link Status	Link Control	Edit	Delete
4th floor link group	Activated (2/3)	Joined (2/3)	Up		X
3rd floor link group	Activated (1/1)	Joined (0/1)	Down		
Factory Link	Activated (0/2)	Joined (0/2)	Down		
sample	Activated (2/3)	Joined (0/3)	Down		
test_link_group	Activated (1/4)	Joined (0/4)	Down		

Radio Channel / PTT Phone Group Tile

Tile Information and Actions

Mute / Unmute

Name

Last Event

PTT Link Status

Group Member Status

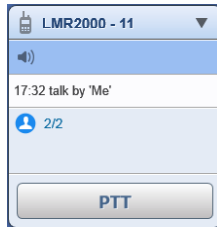
Time	Message
2017-01-23 18:59:01	joined (4th floor link group) member by 'ws hwang'
2017-01-23 18:59:01	activated PTT phone group
2017-01-23 18:59:01	deactivated PTT phone group
2017-01-23 18:59:00	joined (4th floor link group) member by 'ws hwang'
2017-01-23 18:59:00	activated PTT phone group
2017-01-23 18:45:47	deactivated PTT phone group

Name	Channel / Group Status	Link Status	Link Control	Edit	Delete
4th floor link group	Activated (2/3)	Joined (2/3)	Up <input type="text"/>		
A13 area	Activated	Joined			
2nd floor - 9801	Unavailable	Unjoined			
workoffice PTT	Activated	Joined			

Name	Type	Number	Status	Call	Drop
1033 1033	Extension	1033	UnJoined		
ip_phone jschoi	Extension	1120	Patched		
ws hwang	Dispatcher	1002	Joined		

Status of a Radio Channel

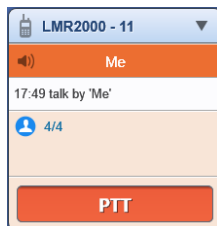
Radio Channel Tile Status



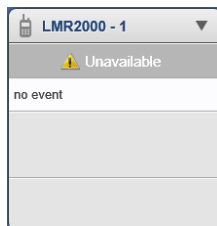
- Idle
 - There is no action in this channel.



- Remote Talking (Listening)
 - You can listen talk from remote terminal.



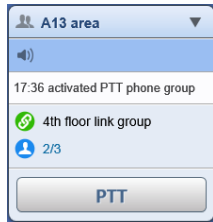
- Local Talking
 - You are talking by pressing PTT button.



- Unavailable
 - RoIP gateway is abnormal.

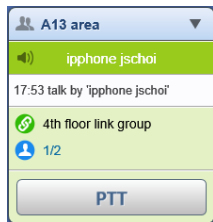
Status of a PTT Phone Group

PTT Phone Group Tile Status



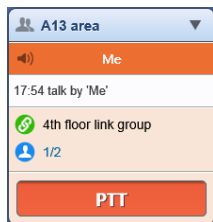
- Idle

- There is no action in this PTT group.



- Remote Talking (Listening)

- You can listen talk from remote terminal.



- Local Talking

- You are talking by pressing PTT button.



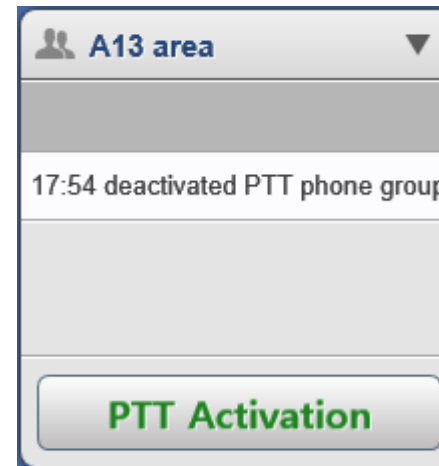
- Deactivated

- There is no PTT session. For listening and talking, it should be activated.

Activating/Deactivating a PTT Phone Group

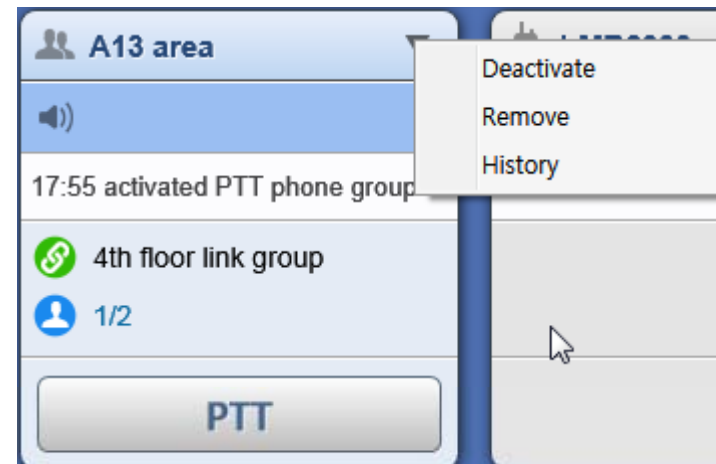
- **Activating**

- Press *Activate* button, then a PTT session will be created and status will be changed from Deactivated to Idle status.



- **Deactivating**

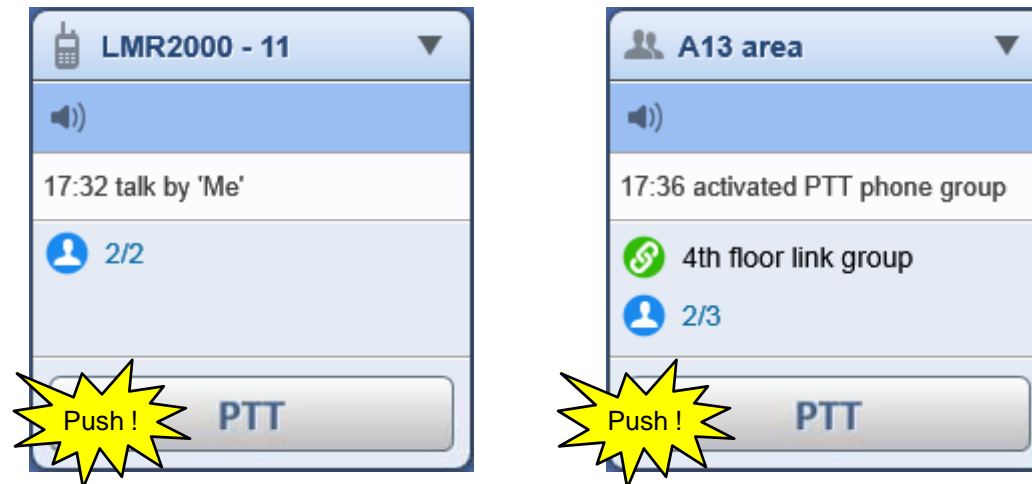
- Select *Deactivate* at tile menu, then a PTT session will be closed and status will be Deactivated status.



One Channel PTT

Select One Channel for PTT

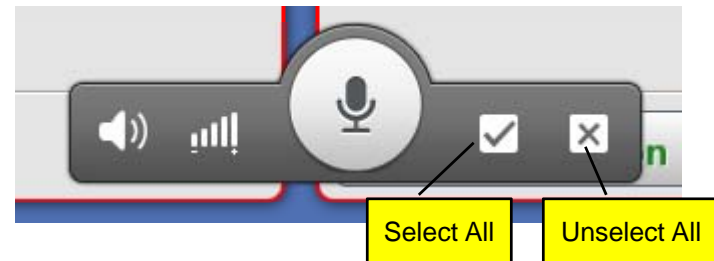
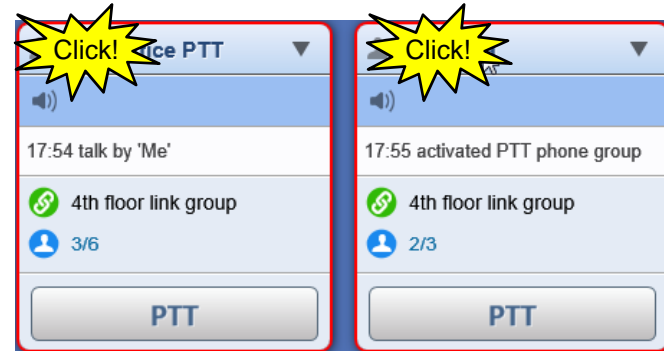
- Push *PTT* button in a Radio Channel or PTT Phone Group



Multiple Channel PTT

Select Multiple Channels for PTT

- Select multiple channels by touching channel tiles or select all by *Select All* button.
- You can unselect all by *Unselect All* button.
- And then press center *PTT* button.



Muting

Mute the Remote Talking

- You can muting and un-muting Radio Channels and PTT Phone Groups by *Mute* buttons.

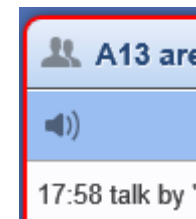
- *All Mute* in Title Bar



- Work Space *Mute* in PTT Control Box



- Radio Channel/PTT Group *Mute* in a Tile



Active PTTs and Recent PTTs

Select a Active PTT for Controlling

- You can select a active PTT at Recent PTT panel for controlling the PTT Group.

Start Time	Channel / Group	Talker	PTT Link
2017-01-23 18:05:06	A14 area	Me	
2017-01-23 18:05:04	A13 area, workoffice	Me	4th floor link group
2017-01-23 18:04:39	A14 area	Me	
2017-01-23 18:04:33	A13 area	Me	
2017-01-23 18:04:27	workoffice PTT	Me	
2017-01-23 17:58:56	A14 area	Me	
2017-01-23 17:58:56	A13 area	Me	
2017-01-23 17:58:56	workoffice PTT	Me	
2017-01-23 17:58:17	A14 area	Me	
2017-01-23 17:58:14	A13 area, workoffice	Me	4th floor link group
2017-01-23 17:54:02	workoffice PTT, A13	Me	4th floor link group

Event List

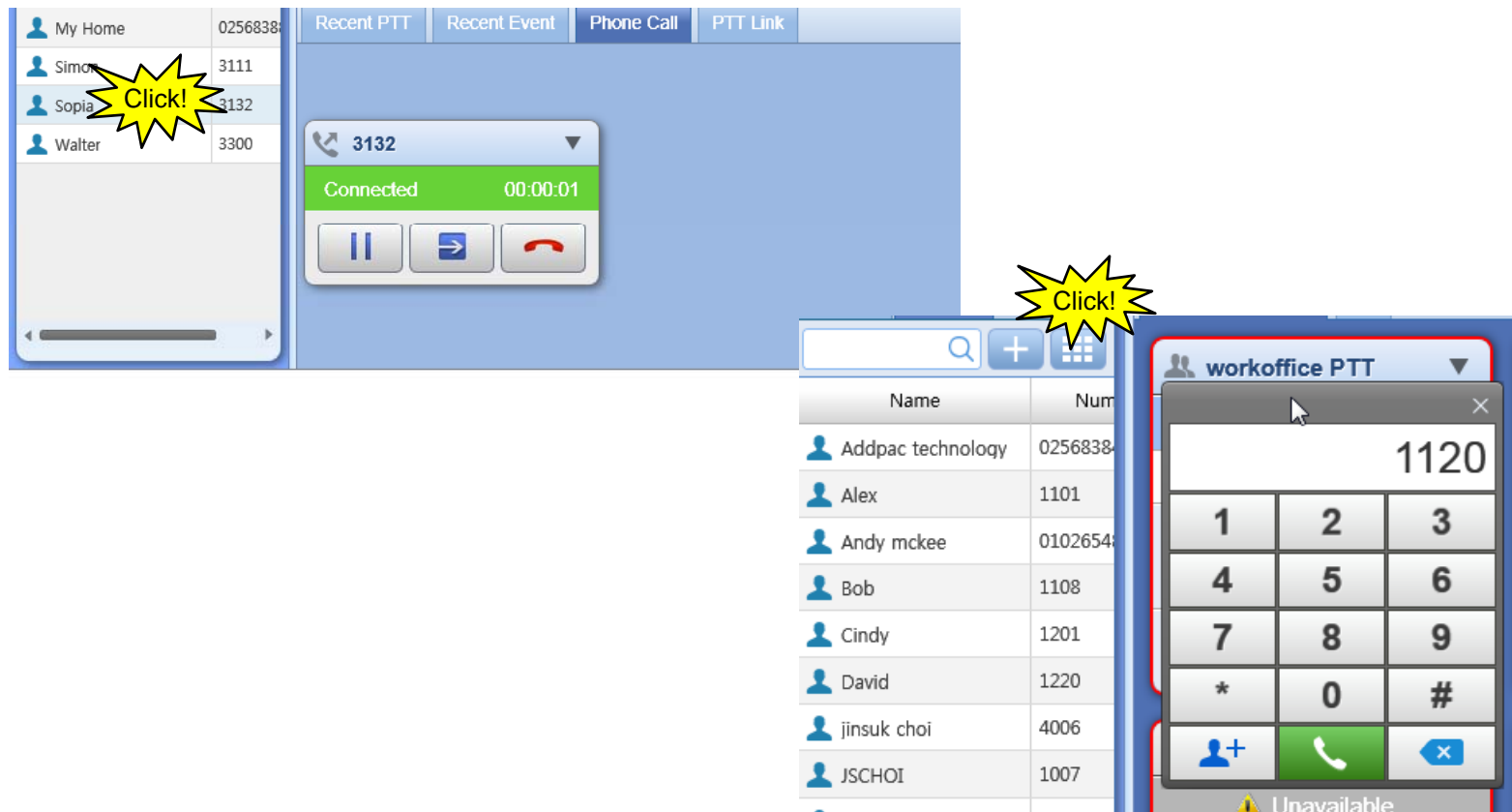
Show Event Messages

- You can monitor event messages at Recent Event panel.
- It shows alarm severity and category of the events.

Time	Level	Category	Message
2017-01-23 18:05:01	Information	PTT	PTT link "4th floor link group" changed to "up" by ws hwang
2017-01-23 17:58:37	Information	PTT	PTT link "4th floor link group" changed to "down" by ws hwang
2017-01-23 17:55:21	Information	PTT	PTT phone group "A13 area" changed to activated.
2017-01-23 17:55:20	Information	PTT	PTT phone group "A13 area" changed to activated.
2017-01-23 17:54:32	Information	PTT	PTT phone group "A13 area" changed to deactivated.
2017-01-23 17:50:48	Warning	PTT	Radio channel "LMR2000 - 11" changed to unavailable.
2017-01-23 17:50:48	Information	PTT	Patched call "ip_phone jschoi" disconnected.
2017-01-23 17:48:38	Information	PTT	Call "ip_phone jschoi" patched to "LMR2000 - 11"
2017-01-23 17:37:28	Information	Config	PTT phone group "A16 area" modified.
2017-01-23 17:37:15	Information	Config	PTT phone group "A15 area" modified.

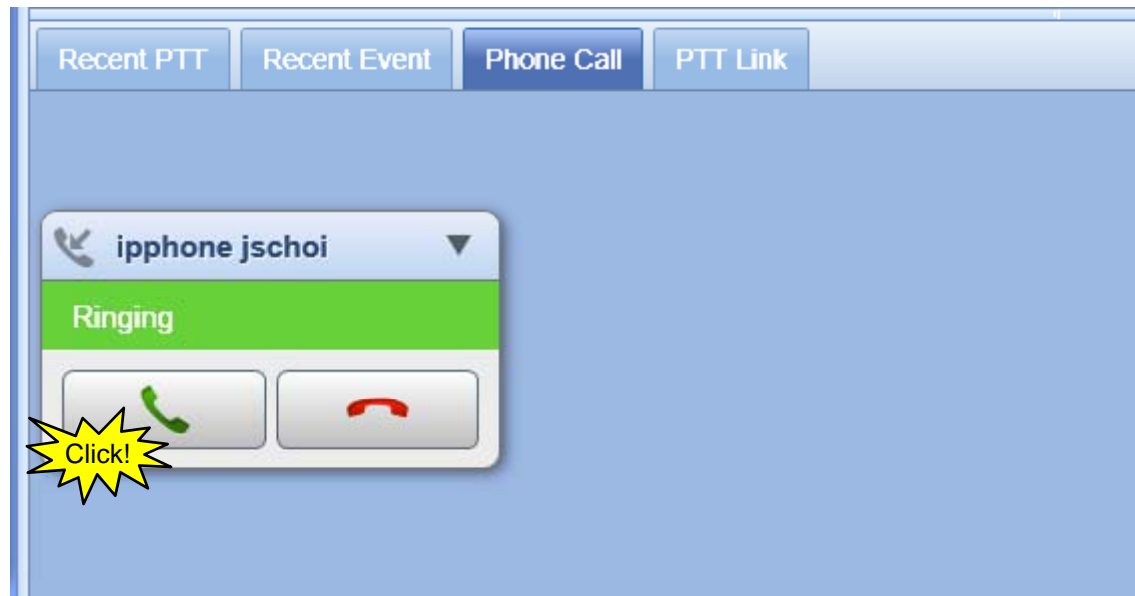
Making a Phone Call

- You can make a phone call using Dial Pad or Contact List.



Receiving a Phone Call

- When phone call received, new Phone Call Tile appears at Phone Call panel.
- You can receive the call by pressing *Accept* button.



Patching a Phone Call

To radio Channel / PTT Phone Group

- You can patch a established phone call to a Radio Channel or a PTT Phone Group.
- The patched phone can listen and talk to the group.

The screenshot displays the AddPac interface. On the left, a 'Call Patch' dialog box is open, prompting the user to 'Please select a PTT phone group or radio channel.' The dialog lists 'A13 area' and 'workoffice PTT'. A yellow starburst with the text 'Click!' points to the 'Patch' button. Below the dialog, a call log for 'iphone jschoi' shows a 'Connected' status with a duration of 00:01:13. Another yellow starburst with 'Click!' points to the call log entry.

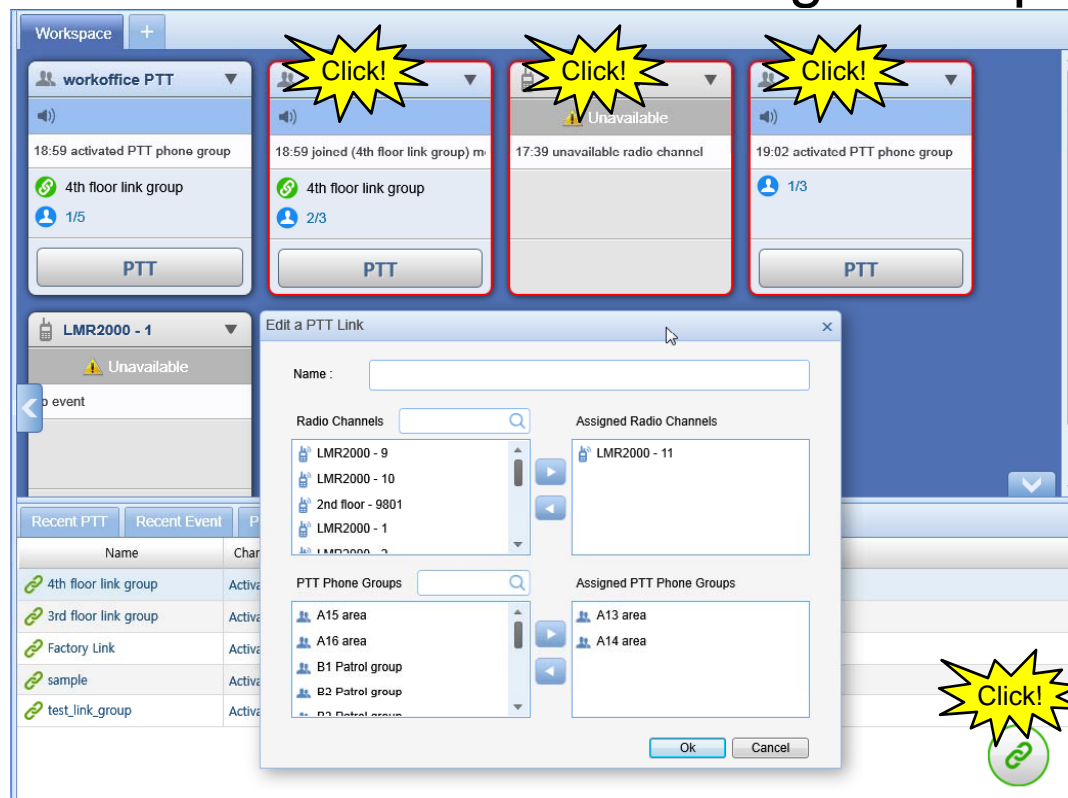
On the right, the main interface shows several panels: 'workoffice PTT', 'A13 area', 'LMR2000 - 11', and 'A14 area'. A 'Group Members (4)' dialog box is open, displaying a table of group members. A yellow box with the text 'Shows patched call' points to the 'Call' column of the table.

Name	Type	Number	Status	Call	Drop
1033 1033	Extension	1033	UnJoined		
ip_phone jschoi	Extension	1120	Patched		
ws hwang	Dispatcher	1002	Joined		
1000 1000	Dispatcher	1000	Joined		

Making a PTT Link

To Link Radio Channels and PTT Phone Groups

- You can make a PTT Link by selecting two or more tiles in work space and pressing *add* button in PTT Link panel.
- The added PTT Link exists after logout dispatch console.



Up/Down a PTT Link

To Link Radio Channels and PTT Phone Groups

- To control PTT Link, you can *up/down* the PTT Link at PTT Link panel.

Recent PTT	Recent Event	Phone Call	PTT Link				
	Name	Channel / Group Status	Link Status	Link Control	Edit	Delete	
	4th floor link group	Activated (2/3)	Joined (2/3)	<input type="button" value="Up"/>			
	A13 area	Activated	Joined				
	2nd floor - 9801	Unavailable	Unjoined				
	workoffice PTT	Activated	Joined				
	3rd floor link group	Activated (1/1)	Joined (0/1)	<input type="button" value="Down"/>			
	Factory Link	Activated (0/2)	Joined (0/2)	<input type="button" value="Down"/>			
	sample	Activated (2/3)	Joined (0/3)	<input type="button" value="Down"/>			
	test_link_group	Activated (1/4)	Joined (0/4)	<input type="button" value="Down"/>			
	2nd floor - 9801	Unavailable	Unjoined				
	workoffice PTT	Activated	Unjoined				
	LMR2000 - 1	Unavailable	Unjoined				
	Factory A	Deactivated	Unjoined				



Thank you!

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