

# IP Attendant Console Solution



***AddPac***

**AddPac Technology**

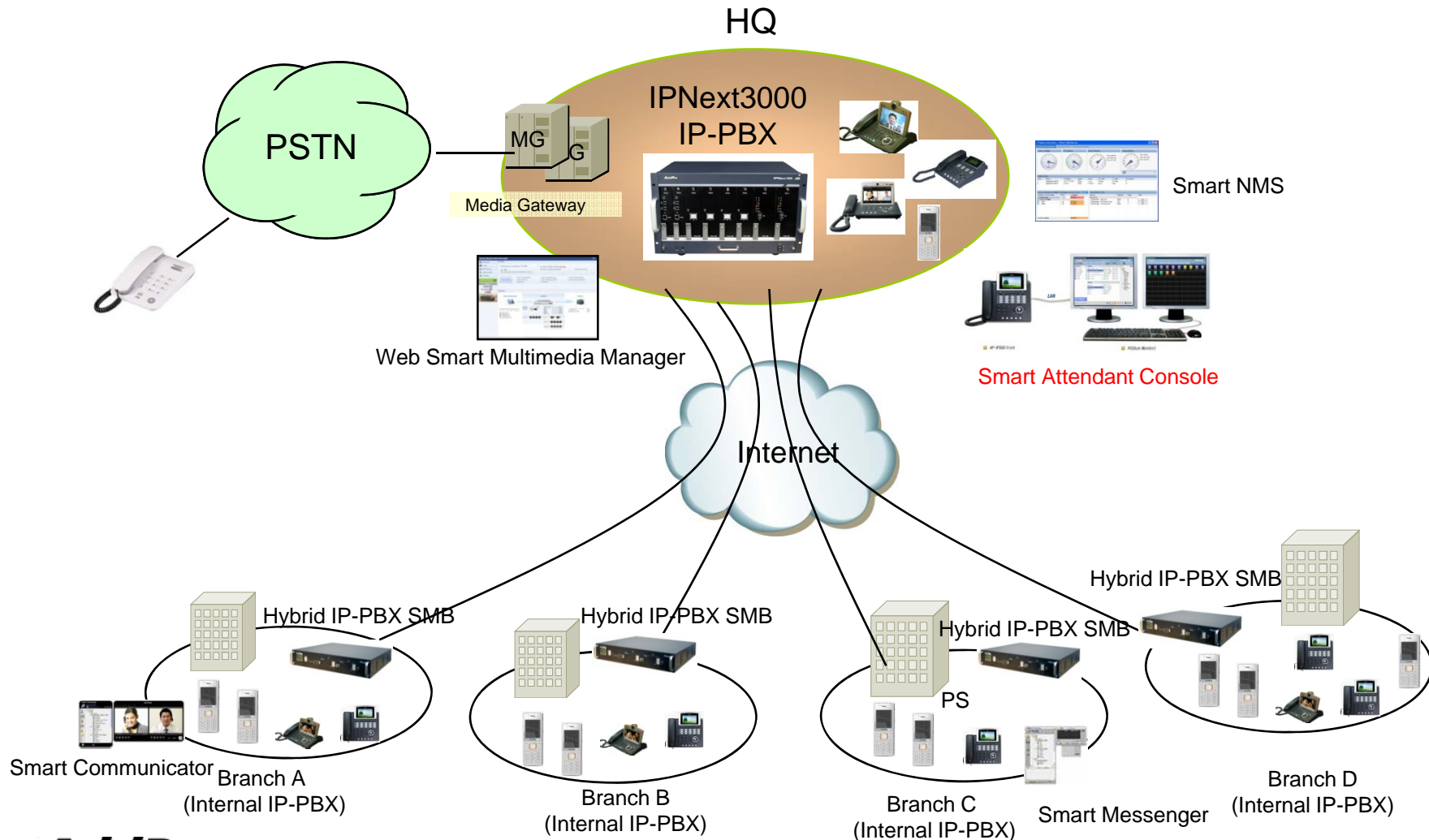
2013, Sales and Marketing

[www.addpac.com](http://www.addpac.com)





# Contents

- IP Telephony Service Diagram
- Dual Redundancy IP-PBX Products (example)
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  - Touch Screen based Attendant Console

# IP Telephony Service Diagram











# IPNext IP-PBX Comparison Table

Model		IPNext5000	IPNext3000	IPNext2000	IPNext600
Service Features					
Registration User Number		5000	3000	2000	500
Concurrent Call User Number		1000	800	500	100
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
System Duplication		Support(built-in)	Support(built-in)	Support(built-in)	Support(Built-In)
Power Supply		Dual Redundancy Power(Module Type)	Dual Redundancy Power(Module Type)	Dual Redundancy Power(Module Type)	Dual Redundancy Power(Module Type)



# IP Video Phones for AddPac IP-PBX



# IP Video Phones for AddPac IP-PBX

	AP-VP500	AP-VP350	AP-VP300N	AP-VP280	AP-VP250	AP-VP230	AP-VP150	AP-VP120
								
LCD Size	12.1 Inch Touch Screen	7Inch Touch Screen	7Inch Touch Screen	7Inch Touch Screen	4.3Inch Touch Screen	5Inch Touch Screen	4.3Inch Touch Screen	4.3Inch
Camera	CCD	CCD	CCD	CMOS	CMOS	CMOS	CCD	CMOS
Video Codec	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264	H.263 MPEG4 H.264
Signaling	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP
Video MCU	N/A	4-Party Video MCU	N/A	N/A	N/A	N/A	N/A	N/A
Voice MCU	3-Party	3-Party	3-Party	3-Party	3-Party	3-Party	3-Party	3-Party
LAN Port	2	2	2	2	2	2	2	2
PoE	N/A	N/A	Support	Support	Support	Support	Support	Support



# IP Phones for AddPac IP-PBX

# IP Phones for AddPac IP-PBX




	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





# IP Extend Key Pack for AddPac IP-PBX

# IP Extend Key Pack Comparison Table

Model	AP-PT100	AP-PT50	AP-PT20
Service Features			
Key Type	7 inch LCD Touch Screen	Push Button with User Presence Indication LAMP	Push Button with User Presence Indication LAMP
Key Number	Default : 9(row) x 4(column) = 36	60 Key	40 Key
User Presence Indication	Support	LED on, LED off, LED Blink	LED on, LED off, LED Blink
Multiple Cascading	Support	Support	Support
Speaker	Support	Support	Support
LAN Port	2	2	2
PoE(Optional)	Support	Support	Support
Application	IP Phone or Video Phone Extend Key Pack	IP Phone or Video Phone Extend Key Pack	IP Phone or Video Phone Extend Key Pack

# IP Wifi Phone

## AP-WP100 IP Wifi Phone

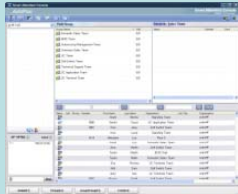
- Wi-Fi IP Phone Solution
- Various Call Scenario Support (IP-PBX)
- State-of-art SIP Signaling
- IEEE802.11b/g up to 54Mbps
- WPA(Wifi Protected Access), 802.11i Security Standard
- Wi-Fi IP Audio Broadcasting Terminal Solution
- External Audio In/Out Port for Headset
- Firmware Upgradeable Architecture
- VoIP Solution with Outstanding Network Service Capability
- Audio Privacy Protection





# IP Attendant Console Software Solution

# IP Attendant Console Product Lists



Smart Attendant Console

Attendant Console Software for Large Company



Smart Office Console

Attendant Console Software for Secretary (Option : Touch Screen)

# IP Attendant Console Feature Comparison

## Smart Attendant Console



## Smart Office Console

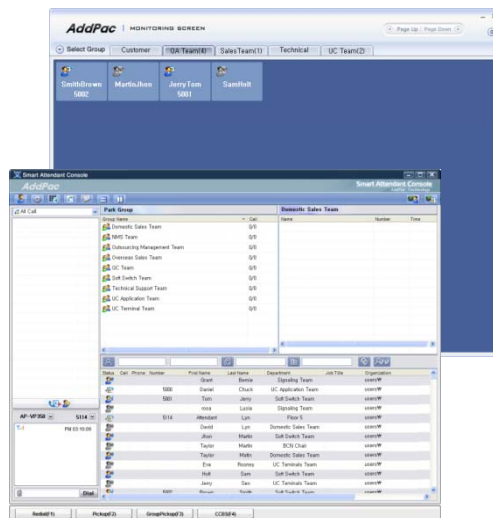


### Feature Lists

- Support Call Routing Service
- Support Directory Search
- Support User Presence Information
- Support Phone Number Presence Information
- Interoperation with Directory and Smart Attendant Console
- Support Smart Call Control and Additional Service Control
- Support Longest Wait Time based Incoming Call Process
- Support Private Phone Book
- Support Drag and Drop Call Control Service
- Support Remote Broadcasting Control Feature

- Support Call Routing Service
- Support User Presence Information
- Support Phone Number Presence Information
- Support Attendant Phone Call Control
- Support Call Status Display
- Support Group Call(Conference)
- Support Various Monitoring Group

# Smart Attendant Console (version 1.0)



# Contents

- Overview
- Smart Attendant Console Structure
- Smart Attendant Console System Diagram
- Smart Attendant Console System Configuration
- Smart Attendant Console Automatic Call Distribution
- Smart Attendant Console Feature
- Smart Attendant Console UI
  - Main Screen Feature
  - Monitoring Screen and Feature
  - Broadcasting Screen and Feature
  - Fire Alerting Screen And Feature

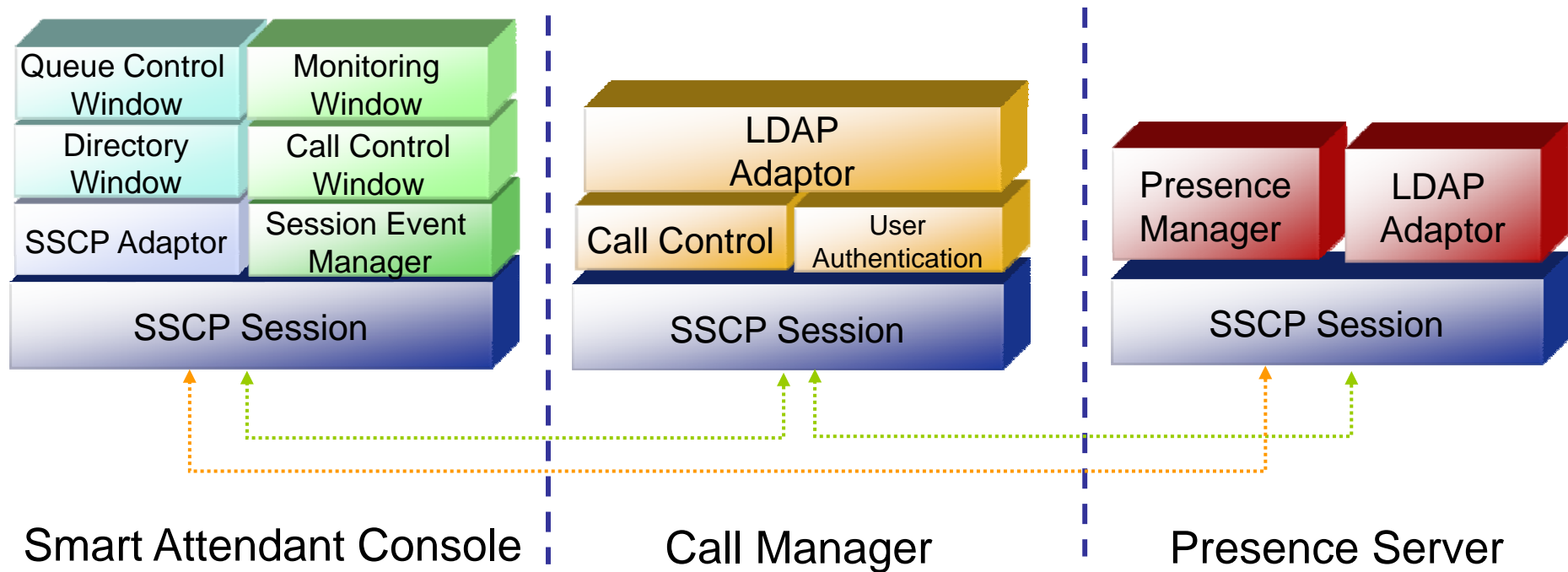


# Overview

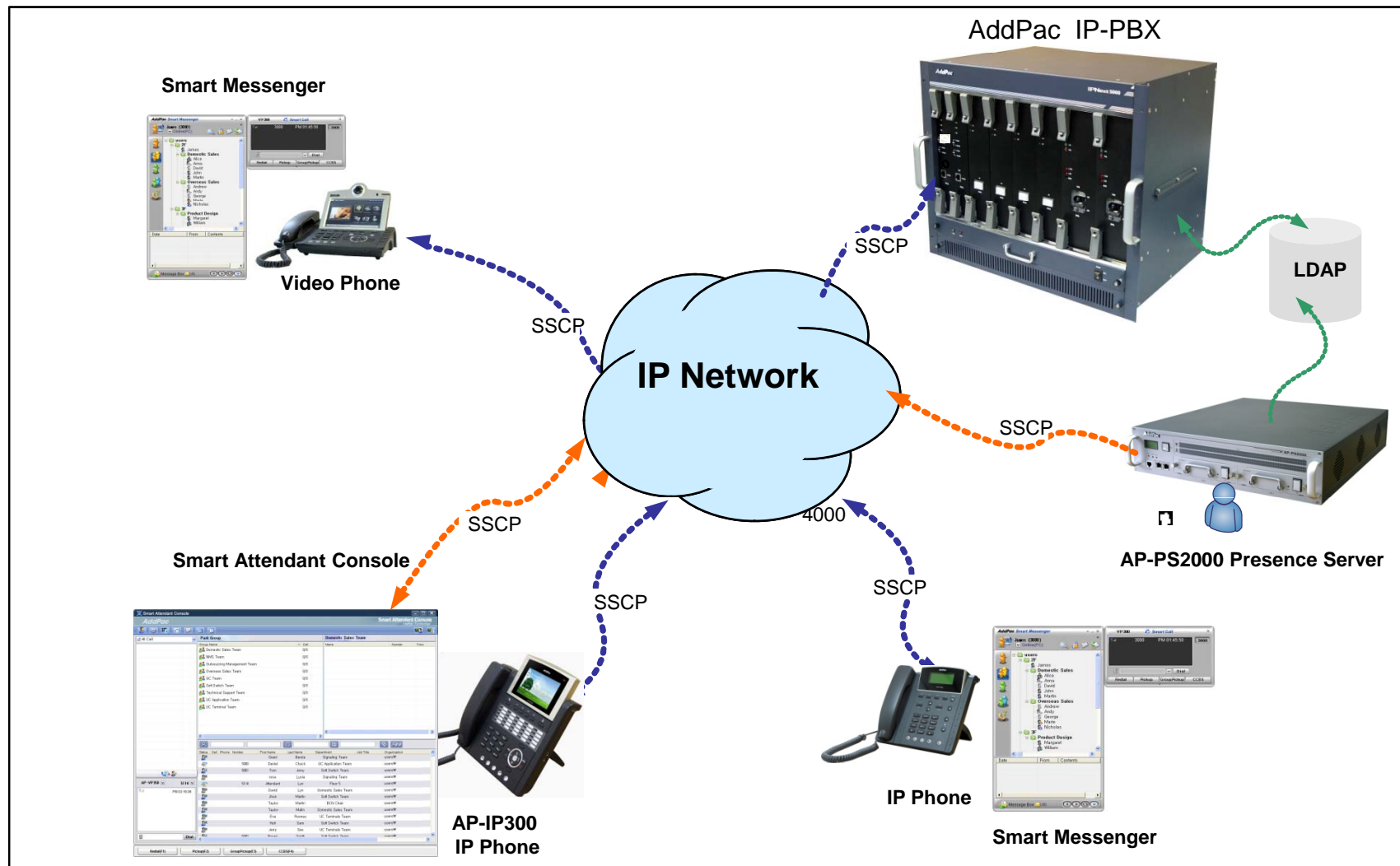
## Support Efficiently Call Routing and Smart Presence Service

- Smart Attendant Console Function
  - Support Call Routing Service
  - Support Directory Search
  - Support User Presence Information
  - Support Phone Number Presence Information
  - Interoperation with Directory and Smart Attendant Console
  - Support Smart Call Control and Additional Service Control
  - Support Longest Wait Time based Incoming Call Process
  - Support Private Phone Book
  - Support Drag and Drop Call Control Service
  - Support Remote Broadcasting Control Feature

# Smart Attendant Console Structure



# Smart Attendant Console System Diagram



# Smart Attendant Console System Configuration

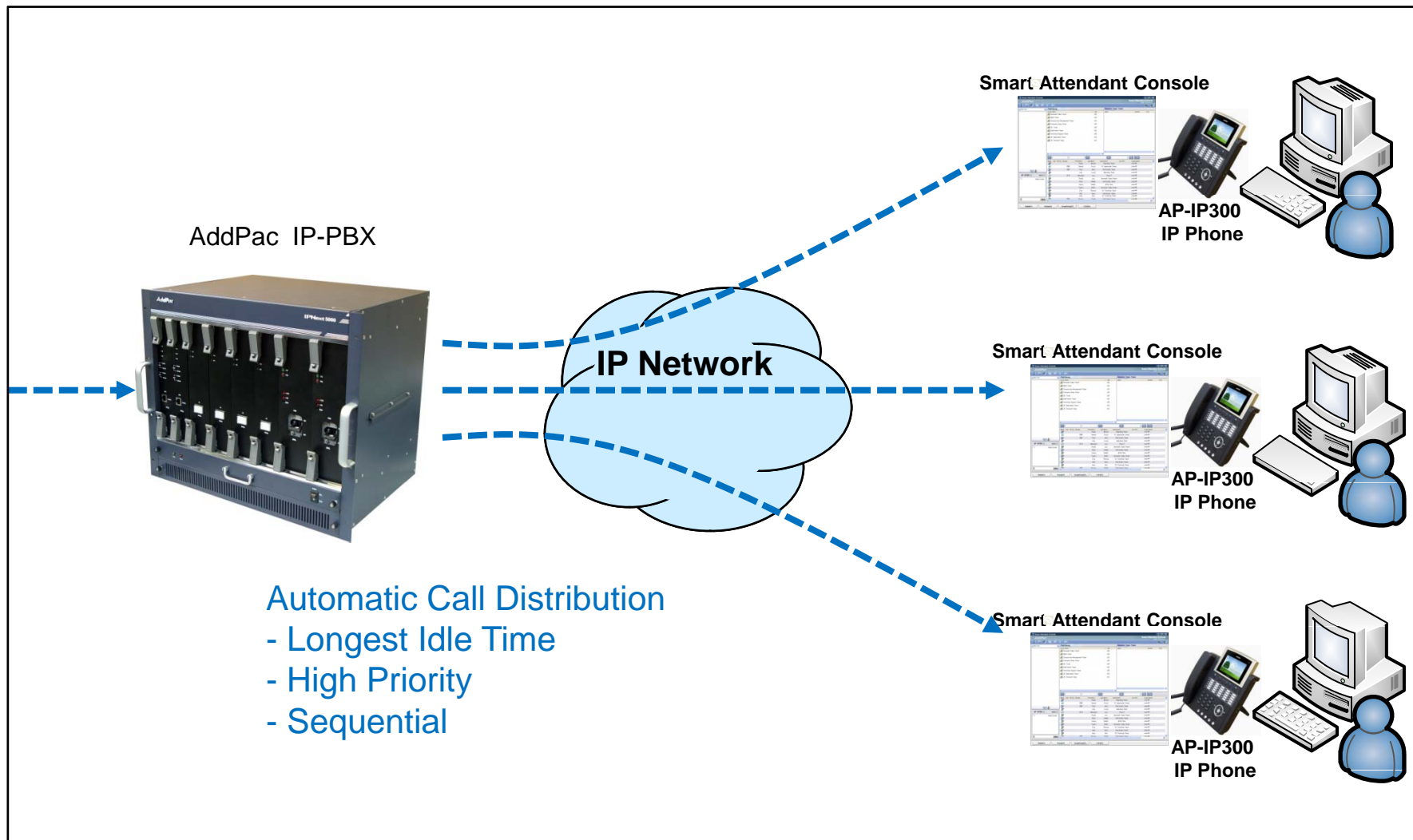


Single Monitor Mode



Dual Monitor Mode

# Smart Attendant Console Automatic Call Distribution



# Smart Attendant Console Feature

- Smart Login Service
  - User Login and Logout Feature
- Automatic Call Distribution Feature
  - No Call Distribution Mode
    - An Available Attendant Manually Answer a Call in the Queue
  - Longest Idle Time Mode
    - Call Manager Automatically Send a Call to Longest Idle Attendant
  - Preference Mode
    - Call Manager Automatically Send a Call to High Priority Attendant
  - Sequential Mode
    - Call Manager Automatically Send a Call to an Attendant Sequentially

# Smart Attendant Console Feature (cont.)

- Queue Call Control Feature
  - Wait Time Based Call Answer
    - Longest Wait Call Answer
  - Show Incoming Call by Call Type
    - Internal Call Show
    - External Call Show
    - Show All Call
  - Display Call Status Icon for Waiting Time
    - Call Busy, Call Wait Alerting, Call Wait Warning
    - User Configure the Wait Status Time

# Smart Attendant Console Feature (cont.)

- Additional Call Service
  - Park Group Monitoring
    - Show Park Group Call Status for All Park Group
    - Show Detail Park Group Call List for Specify Park Group
    - Call Group Park, Park Group Call Pickup
    - Display Call Status Icon for Waiting Time
      - Call Busy, Call Wait Alerting, Call Wait Warning
      - User Configure the Wait Status Time



# Smart Attendant Console Feature (cont.)

- **Additional Call Service**
  - Phone Book Feature
    - Group Create, Modify, Delete
    - Contact Add, Delete, Modify
    - Common Feature
      - Dial
      - View Detail Contact Information
      - Send e-mail
    - Dial, Send e-mail Using Phone Book
    - Private Contacts Managing Feature
    - Detail Contact Information View
  - Support Emergency / Night Mode (ToDo)
    - Configure Emergency Voice Content and Enable/Disable Emergency Mode
    - Enable/Disable Night Mode

# Smart Attendant Console Feature (cont.)

- Directory Search Service
  - User Search Feature
    - Various Search Options
      - First Name, Last Name, Department, Phone Number
    - Search User Presence Status View
      - PC Online, Phone Online, PC-Phone Online
      - Working, Away, Absence
      - Be In Conference, Call Busy
    - Interoperate with Directory Search User Information
      - Double Click Call Dial and Manual Call Dial
      - Drag and Drop Call Transfer and Manual Call Transfer
      - Dynamic Conference

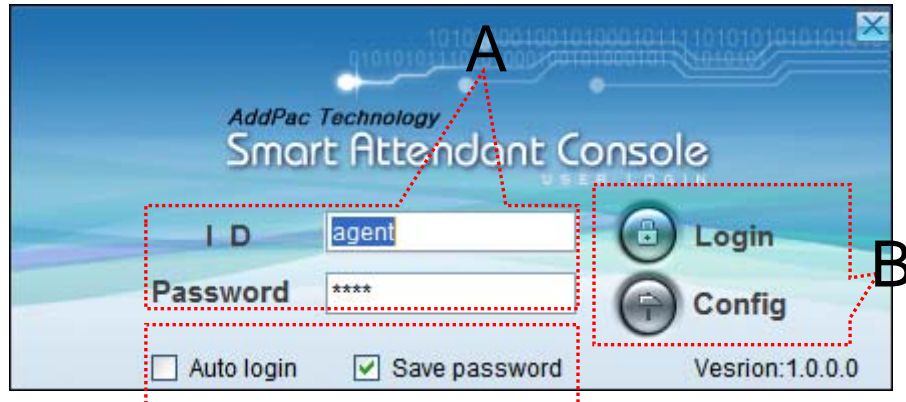
# Smart Attendant Console Feature (cont.)

- **Monitoring Presence Service**
  - Support Monitoring Group
    - Add, Modify, Delete Monitoring Group and User
    - Add Group from Public Contacts
  - Phone Presence Status
    - Online, Working, Away, Absence
    - Be In Conference, Call Busy
  - Display Call Information
    - Caller Name, Phone Number
    - Phone Type (Phone, Mobile), Call Type (In/Out-Bound Call)
  - Display Call Status Icon for Waiting Time
    - Call Idle, Call Busy, Call Wait Alerting, Call Wait Warning
    - User Configure the Wait Status Time

# Smart Attendant Console Feature (cont.)

- **Broadcasting Service**
  - Support Broadcasting Control Feature
    - Easy to Start/Stop Broadcasting
    - Show Broadcasting Group Status
    - Set Broadcasting Volume
  - Support User Friendly Design
- **Fire Alerting Service**
  - Automatic Fire Alerting Broadcasting
  - Show Fire Alerting Status

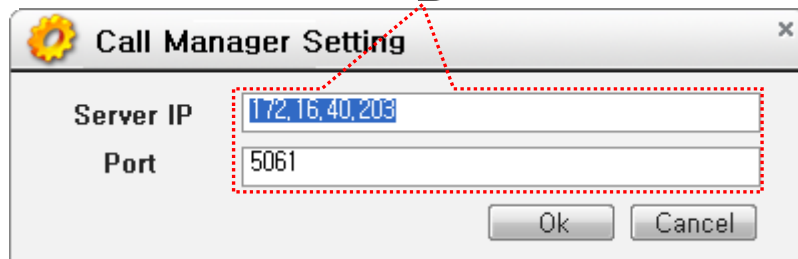
# Smart Attendant Console Login



[Figure 1]

C

D



[Figure 2]

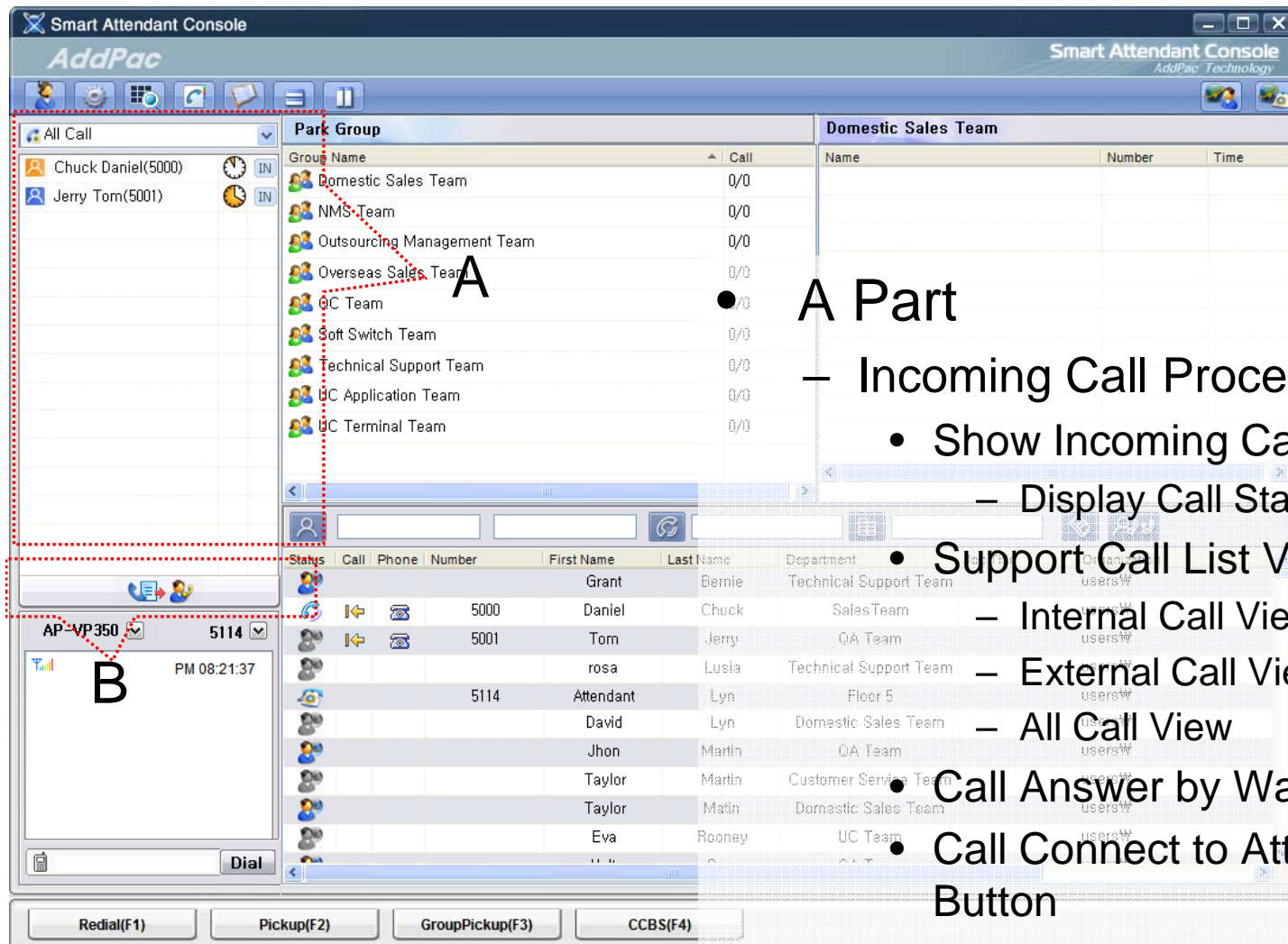


[Figure 3]

- Attendant Console Login
  - [Figure 1] shows the login picture of smart attendant Console program. “E” of [Figure3] is ICON of Smart Attendant Console Program.
  - When program is started initially, user should set the network configuration parameter such as IP address, Port number of Presence Server.[Figure2]
  - After inputting ID and Password, press the login button

# Smart Attendant Console

## Main Screen Feature



A

### A Part

– Incoming Call Process Part

- Show Incoming Call Status
  - Display Call Status by Wait Time Icon
- Support Call List View Option

- Internal Call View
- External Call View
- All Call View

• Call Answer by Wait Time

• Call Connect to Attendant Using “B” Button

# Smart Attendant Console Main Screen Feature (cont.)

- B Part

- Additional Service Run Part

- Service On/Off Button
  - Configuration Button
  - Monitoring Screen Run Button
  - Phone Book Button
  - Directory Refresh Button
  - Program Arrange Layout Button

- C Part

- Call Control

- Connected Call Control Soft-Key
    - Support Dynamic Soft-Key
  - Input Dial Number and Dial

**B**

**C**

# Smart Attendant Console Main Screen Feature (cont.)

- D Part
  - Directory Search Part
    - Provide Various Search Options
      - First Name, Second Name
      - Department
      - Phone Number
    - Support User Presence Service
    - Interoperation with Directory Search User

The screenshot displays the Smart Attendant Console interface. A window titled 'Smart Attendant Console' is open, showing a 'Park Group' dropdown menu with a list of groups including 'Domestic Sales Team', 'Outsourcing Management Team', 'Overseas Sales Team', 'QC Team', 'Soft Switch Team', 'Technical Support Team', and 'UC Application Team'. A table titled 'Domestic Sales Team' is visible, with columns for 'Name', 'Number', and 'Time'. Below this, a larger table shows user presence information with columns for 'Status', 'Call', 'Phone', 'Number', 'First Name', 'Last Name', 'Department', 'Job Title', and 'Organization'. The table contains several rows of user data, including Daniel Chuck, Tom Jerry, rosa Lusia, and others. A red dashed box highlights the search and user presence area, with a red arrow pointing to a 'D' label. A green dashed circle highlights the 'CCBS(F4)' button at the bottom of the interface.

Status	Call	Phone	Number	First Name	Last Name	Department	Job Title	Organization
				Grant	Bernie	Technical Support Team		users**
			5000	Daniel	Chuck	Sales Team		users**
			5001	Tom	Jerry	QA Team		users**
				rosa	Lusia	Technical Support Team		users**
			5114	Attendant	Lyn	Floor 5		users**
				David	Lyn	Domestic Sales Team		users**
				Jhon	Martin	QA Team		users**
				Taylor	Martin	Customer Service Team		users**
				Taylor	Matin	Domestic Sales Team		users**
				Eva	Rooney	UC Team		users**



# Smart Attendant Console Main Screen Feature (cont.)

The screenshot displays the Smart Attendant Console interface. The top section shows a 'Park Group' list with columns for 'Group Name' and 'Call'. The 'Technical Support Team' is selected, showing a call count of 1/2. Below this, a 'Technical Support Team' detail view shows a list of team members with columns for 'Name', 'Number', and 'Time'. The bottom section shows a call list with columns for 'Status', 'Call', 'Phone', 'Number', 'First Name', 'Last Name', 'Department', 'Job Title', and 'Organization'. A red dashed box labeled 'E' highlights the Park Group Management section.

Group Name	Call
Domestic Sales Team	0/0
NMS Team	0/0
Outsourcing Management Team	0/0
Overseas Sales Team	0/0
QC Team	0/0
Soft Switch Team	0/0
Technical Support Team	1/2
UC Application Team	0/0
UC Terminal Team	0/0

Name	Number	Time
DanielChuck	5000	62
TomJerry	5001	38

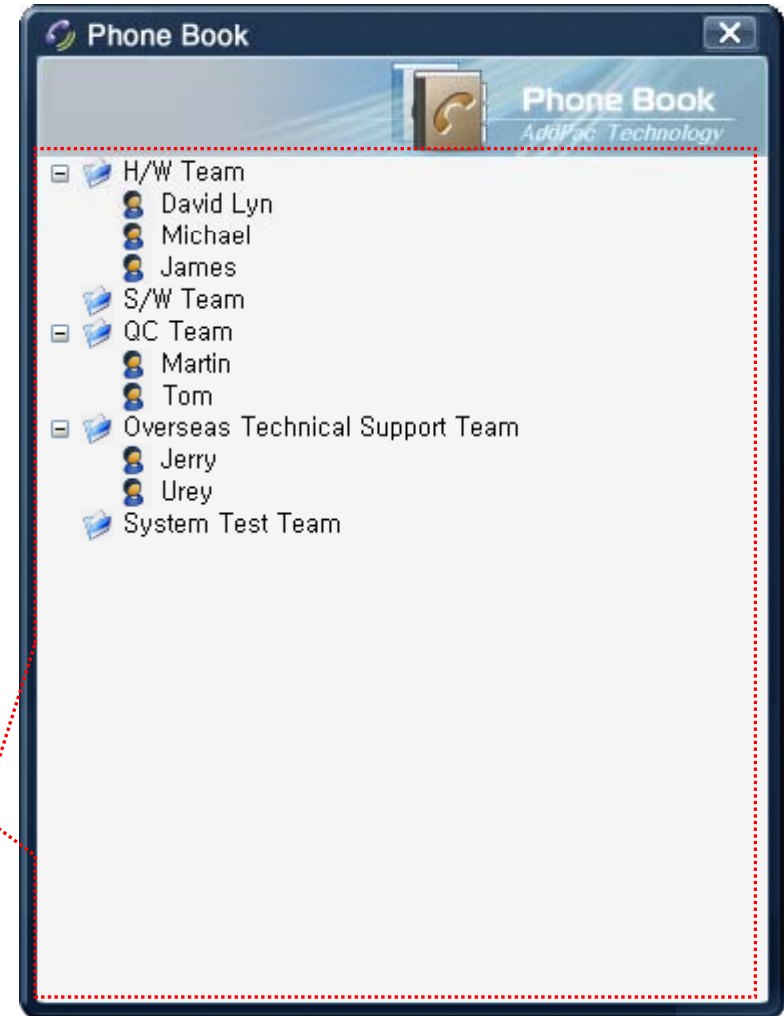
Status	Call	Phone	Number	First Name	Last Name	Department	Job Title	Organization
			5000	Daniel	Chuck	UC Application Team		
			5001	Tom	Jerry	Soft Switch Team		
			5114	rosa	Lusia	Signaling Team		
				Attendant	Lyn	Floor 5		
				David	Lyn	Domestic Sales Team		
				Jhan	Martin	Soft Switch Team		
				Taylor	Martin	BCN Chair		
				Taylor	Martin	Domestic Sales Team		
				Rooney		UC Terminals Team		

- E Part
  - Park Group Management Part
    - Show Park Group Call Status
    - Show Detail Park Group Call List
    - Support Group Park, Group Park Call Pickup

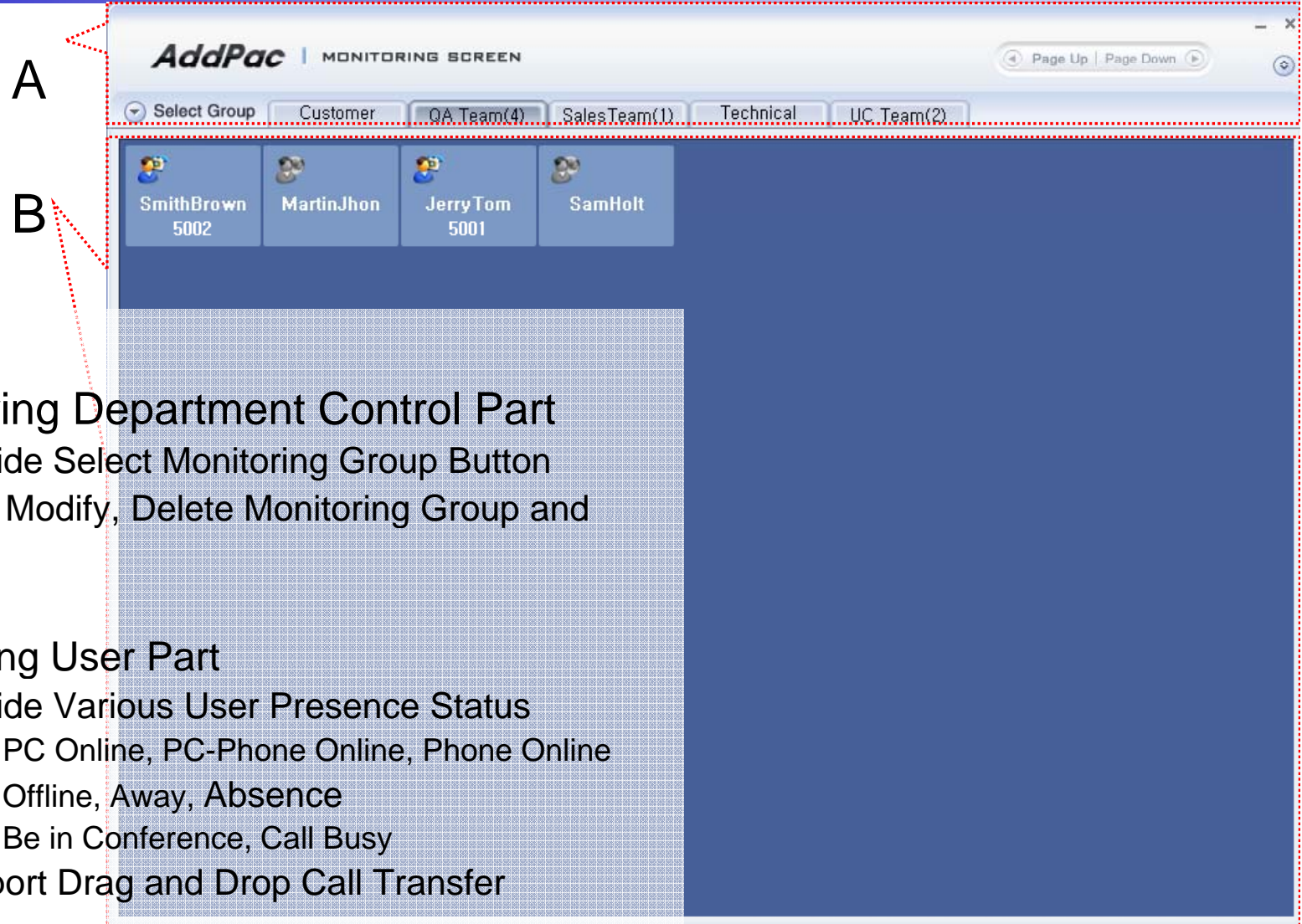
# Smart Attendant Console

## Main Screen Feature (cont.)

- F Part
  - Phone Book Management Part
    - Group Create, Modify, Delete
    - Contact Add, Delete, Modify
    - Common Feature
      - Dial
      - View Detail Contact Information
      - Send e-mail
    - Dial, Send e-mail Using Phone Book
    - Private Contacts Managing Feature
    - Detail Contact Information View



# Smart Attendant Console Monitoring Screen Feature



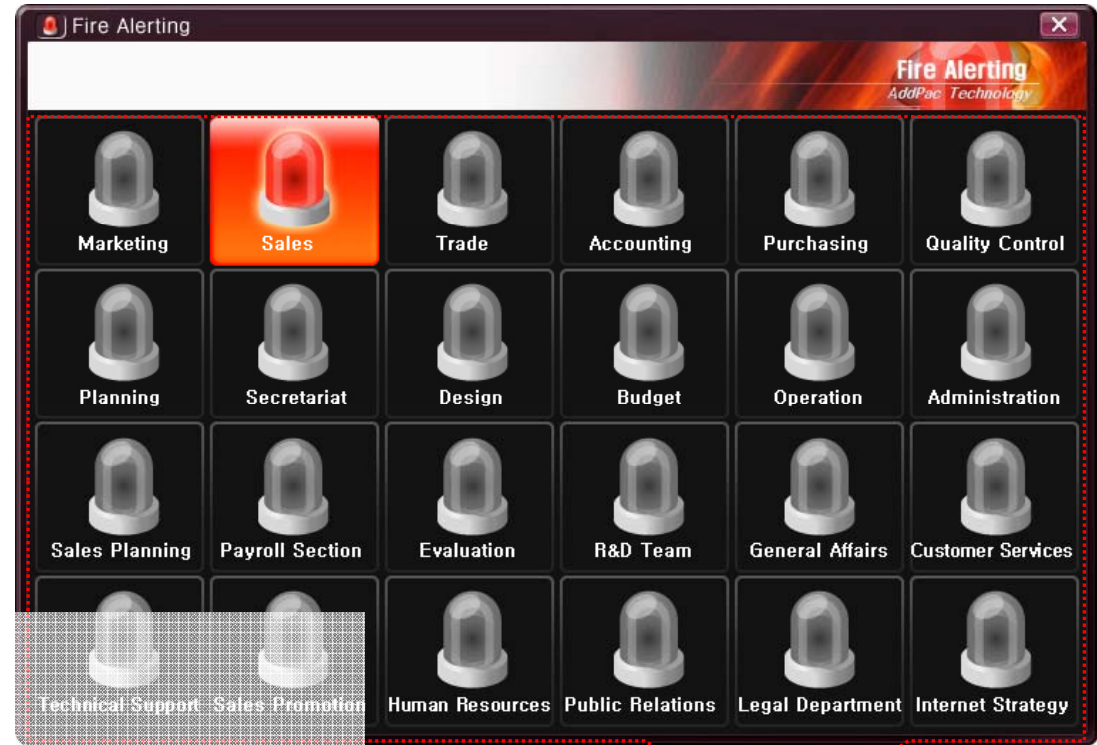
# Smart Attendant Console Broadcasting Screen Feature

- A Part
  - Broadcasting Status Part
    - Show Group Broadcasting Status
      - Broadcasting, Idle, Other Service
- B Part
  - Broadcasting Control Part
    - Broadcasting Start/Stop Button
    - Chime Bell Play Button
    - Volume Control Button



# Smart Attendant Console

## Fire Alerting Screen Feature



- A Part
  - Fire Alerting Part
    - Automatic Fire Alerting Broadcasting
    - Show Fire Alerting Status



# Smart Office Console (Version 1.1)

# Contents

- Overview
- Smart Office Console System Diagram
- Smart Office Console Feature
- Smart Office Console UI
  - Login Feature
  - Main Screen Feature

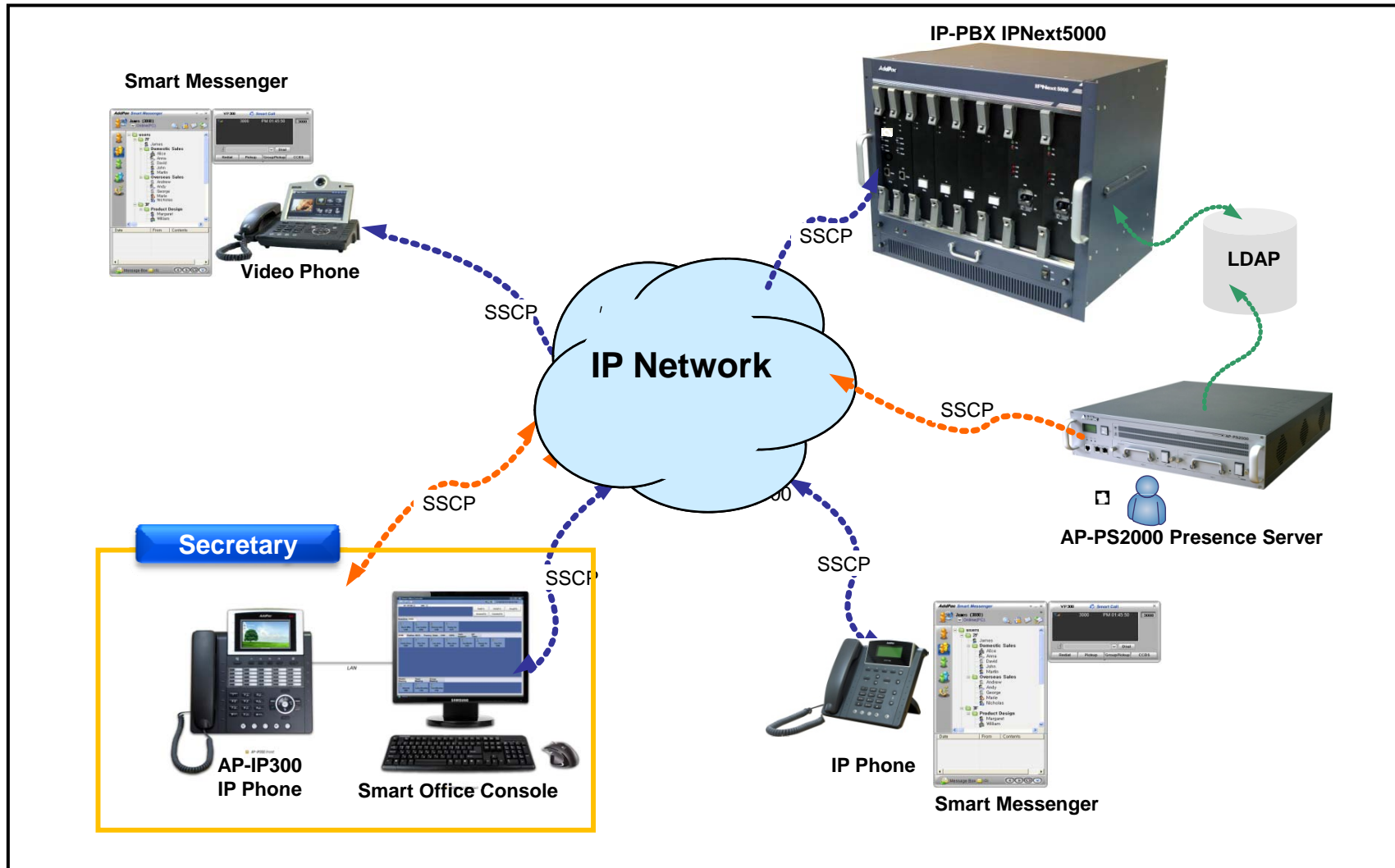
# Overview

## Support Efficiently Call Routing and Smart Presence Service

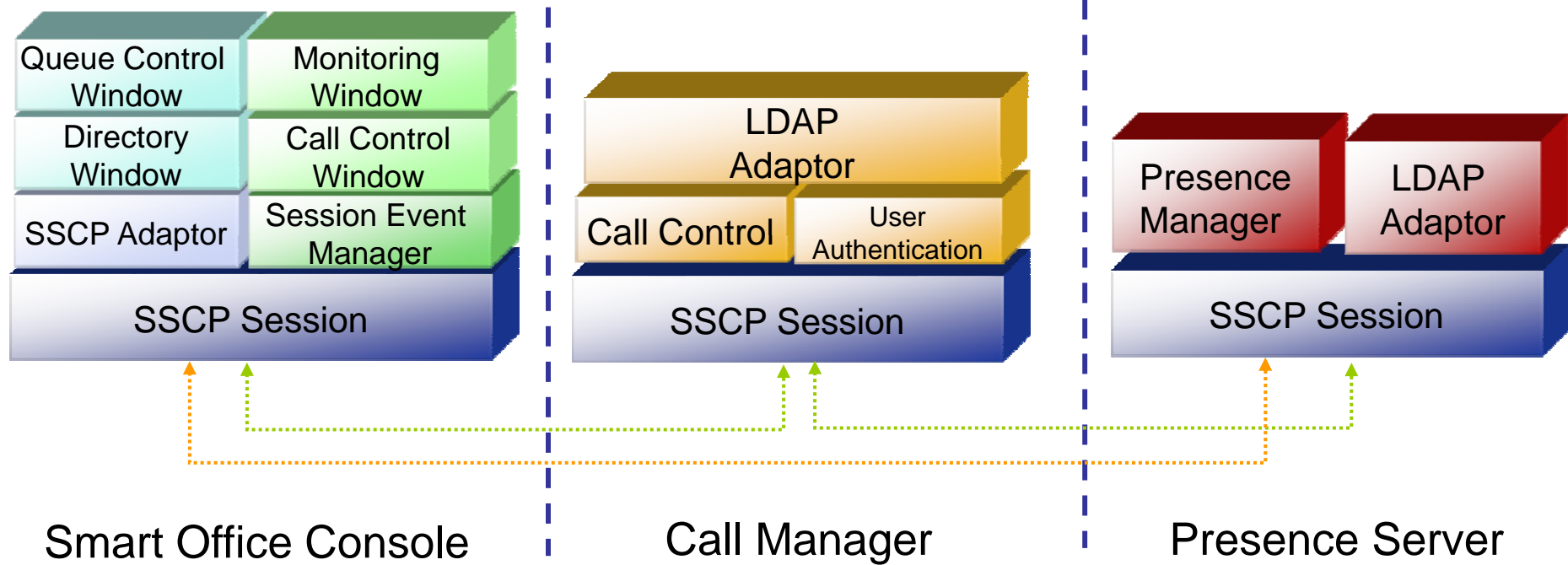
- Smart Office Console Function
  - Support Call Routing Service
  - Support User Presence Information
  - Support Phone Presence Information
  - Support Attendant Phone Call Control
  - Support Call Status Display
  - Support Group Call(Conference)
  - Support Various Monitoring Group



# Smart Office Console System Diagram



# Smart Office Console Structure



# Smart Office Console Feature

- User Login Service
  - User Login and Logout Feature
- Monitoring and Group Management Service
  - Support Various Group
    - Attendant and Direct Phone Group
    - Office Phone Group
    - Conference Group
  - Support Group Management Feature
    - Add Group, Rename Group, Delete Group
    - Add User, Delete User
    - Add Conference Room, Delete Conference Room

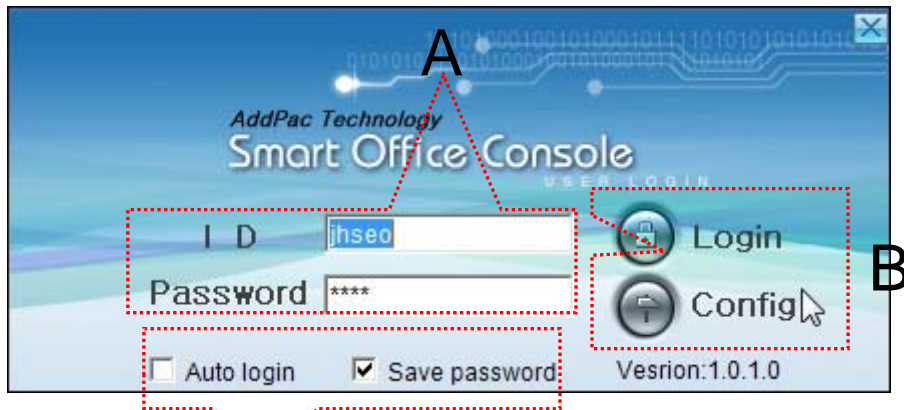
# Smart Office Console Feature

- Monitoring and Group Management Service
  - Presence Feature
    - Phone Presence Status
      - Online, Working, Away, Absence, Be In Conference, Call Busy
    - User Presence Status
      - PC Online, Phone Online, PC-Phone Online
      - Working, Away, Absence, Be In Conference, Call Busy
    - Display Call Status
      - Display Talking Call Status Icon for Talking Time
      - Call Busy, Call Wait Alerting
      - User Configure the Talking Status Time
  - Call Control Feature
    - Interoperate with Monitoring Phone Information
    - Manual Call Dial
    - Drag and Drop Call Transfer and Manual Call Transfer

# Smart Office Console Feature

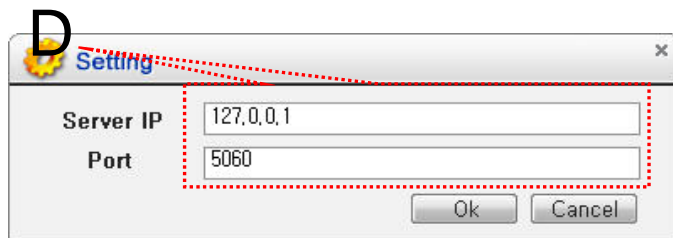
- Attendant Phone Call Control Service
  - Display Phone Call Status
    - Display Call Status Icon for Call State
    - Display Talking Call Status Icon for Talking Time
      - Call Busy, Call Wait Alerting
      - User Configure the Talking Status Time
    - Support Multi-Call
  - Phone Call Control Feature
    - Dial to Monitoring Phone and Conference
    - Incoming Call Answer
    - Call Hold and UnHold
    - Call Transfer
    - Call Drop
    - Interoperate with Monitoring Phone Information
      - Drag and Drop Call Transfer and Manual Call Transfer

# Smart Office Console Login



[Figure 1]

C



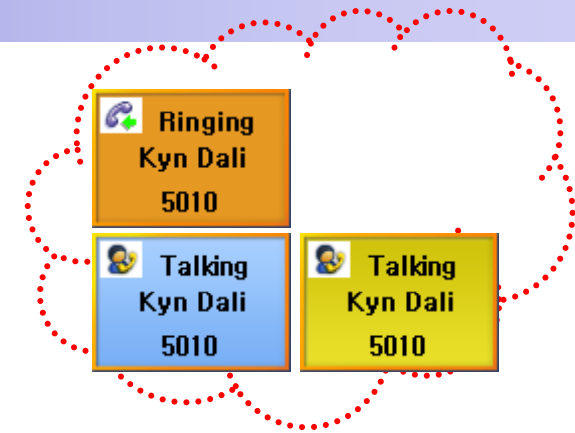
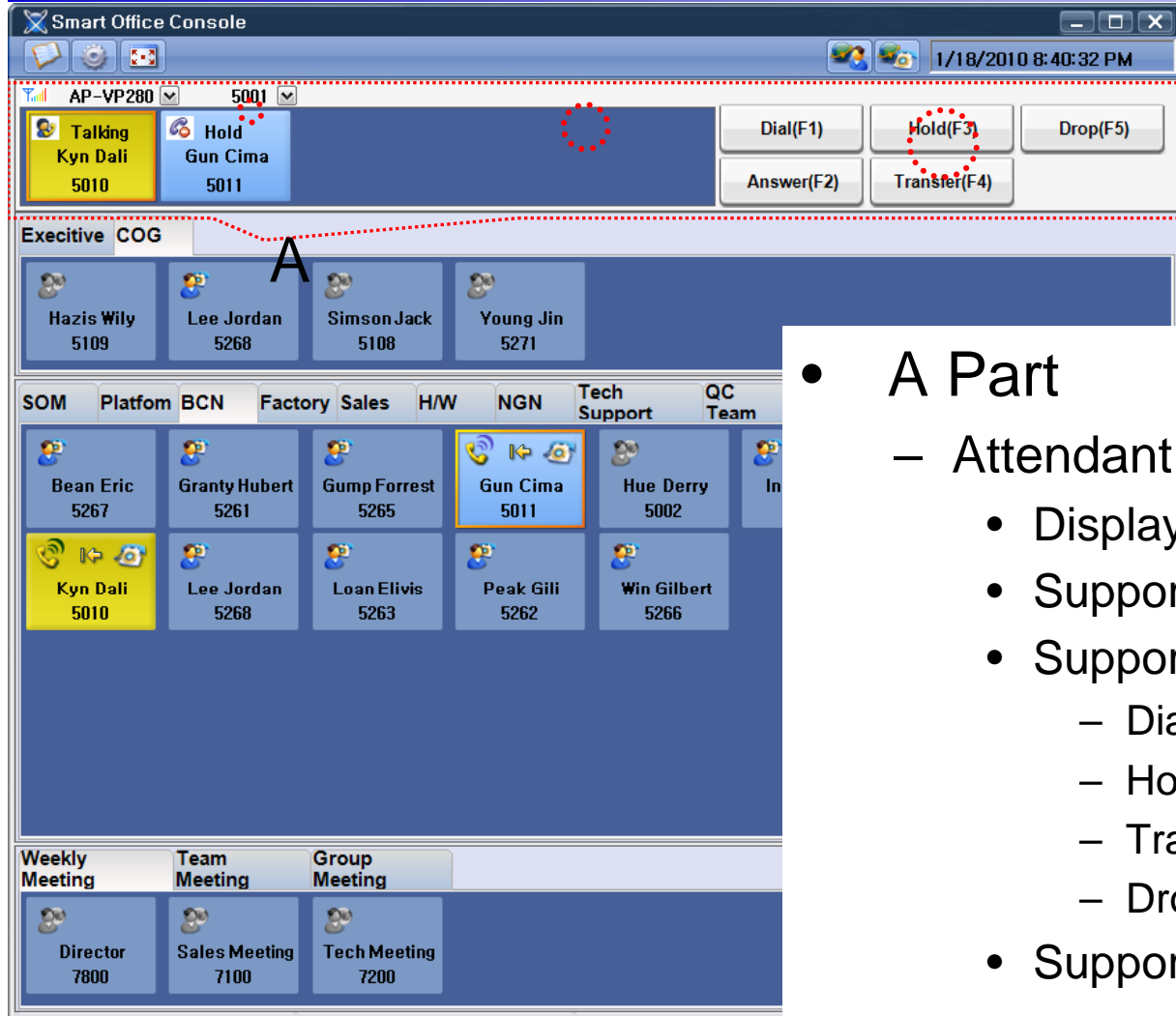
[Figure 2]



[Figure 3]

- Attendant Console Login
  - [Figure 1] shows the login picture of Smart Office Console program. “E” of [Figure3] is Icon of Smart Office Console Program.
  - When program is started initially, user should set the network configuration parameter such as IP address, Port number of Presence Server.[Figure2]
  - After inputting ID and Password, press the login button

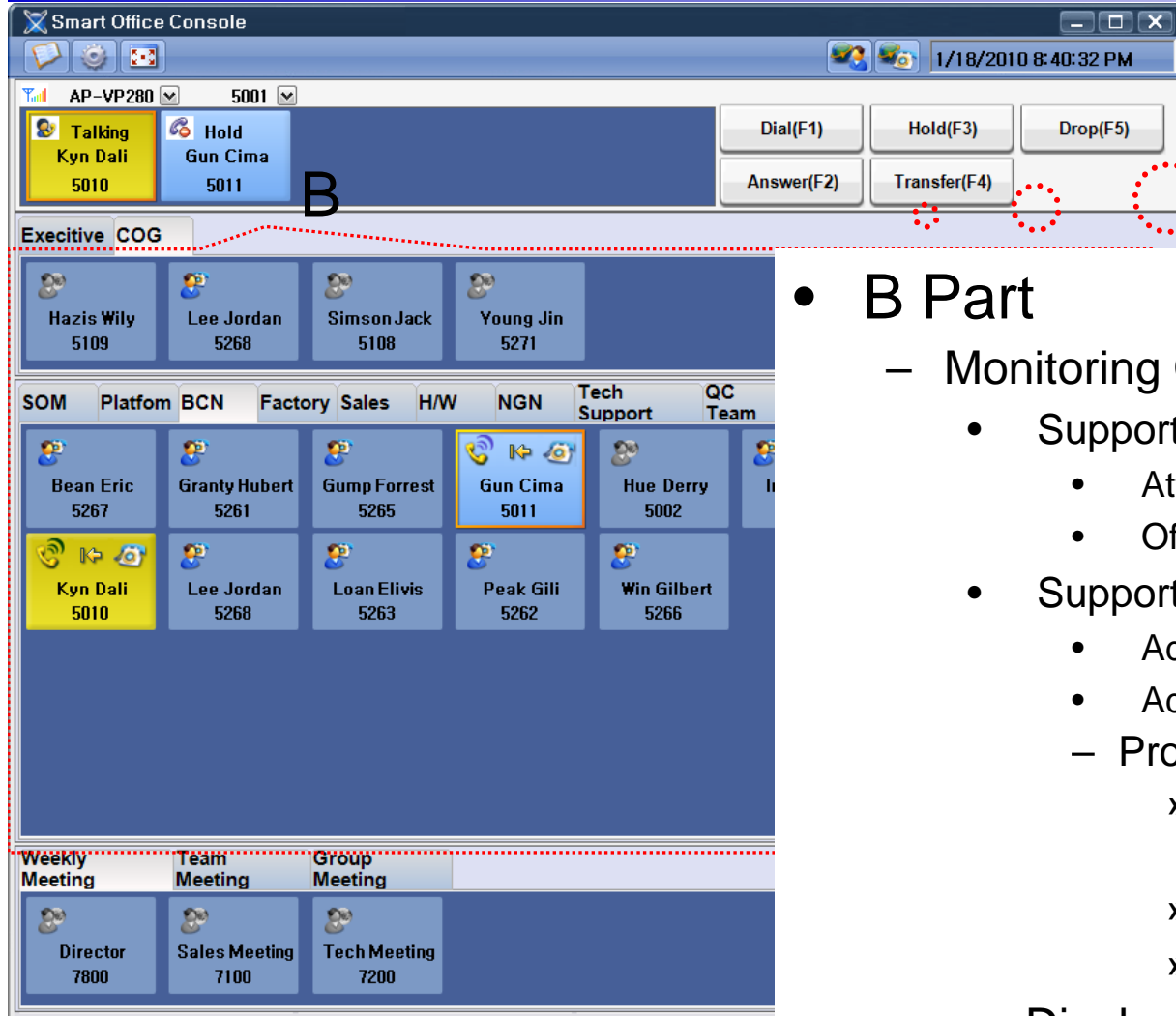
# Smart Office Console Main Screen – Call Control



- A Part
  - Attendant Phone Call Control Part
    - Display Call Status
    - Support Multi-Call Display
    - Support Call Control Feature
      - Dial, Answer
      - Hold/UnHold
      - Transfer
      - Drop
    - Support Short Key Call Control

# Smart Office Console

## Main Screen – Monitoring



- **B Part**

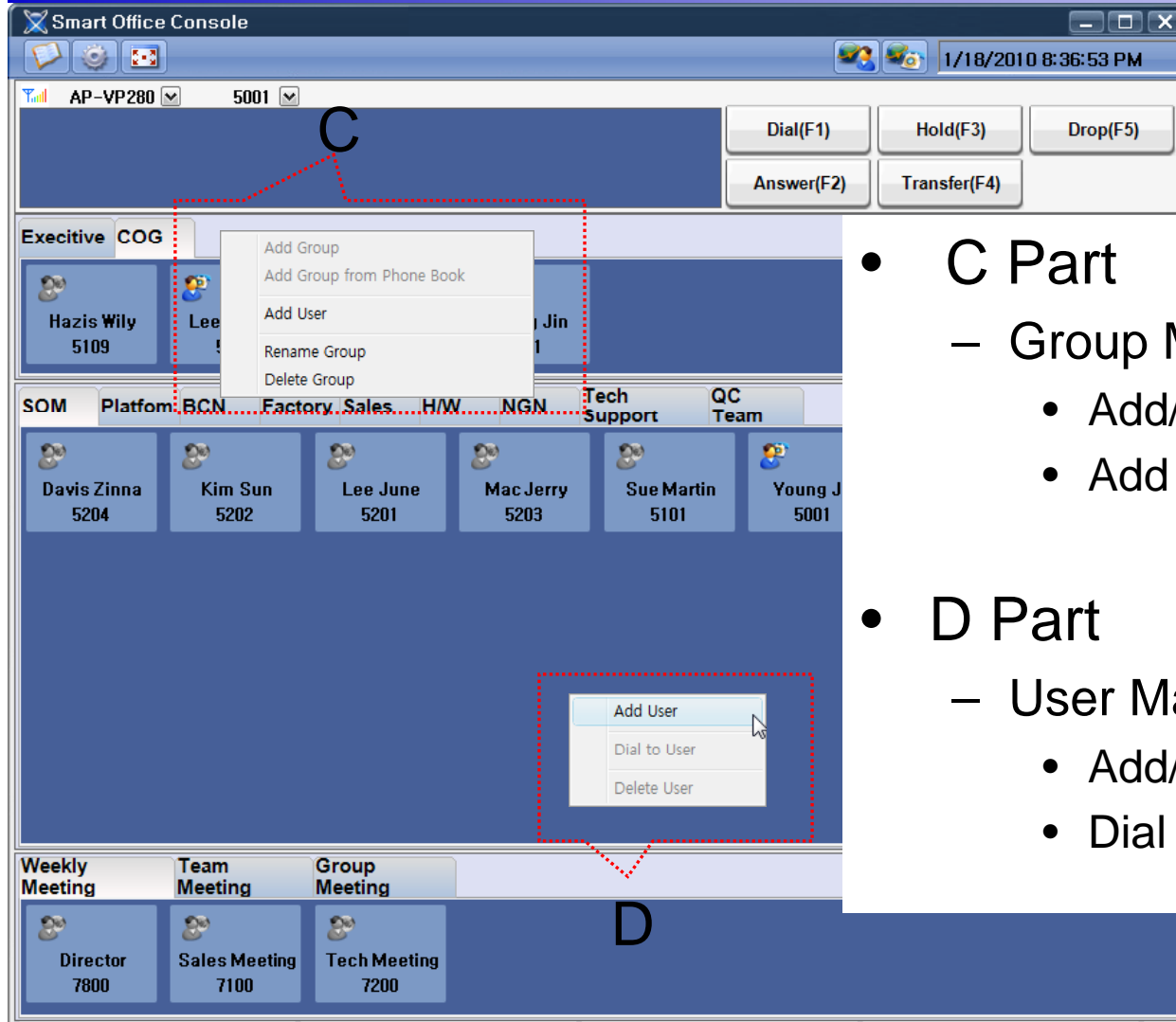
- **Monitoring Group Part**

- Support Various Group
  - Attendant and Direct Phone Group
  - Office Phone Group
- Support Group Management Feature
  - Add Group, Rename Group, Delete Group
  - Add User, Delete User
- Provide Various User Presence Status
  - » PC Online, PC-Phone Online, Phone Online
  - » Offline, Away, Absence
  - » Be in Conference, Call Busy
- Display Call Status



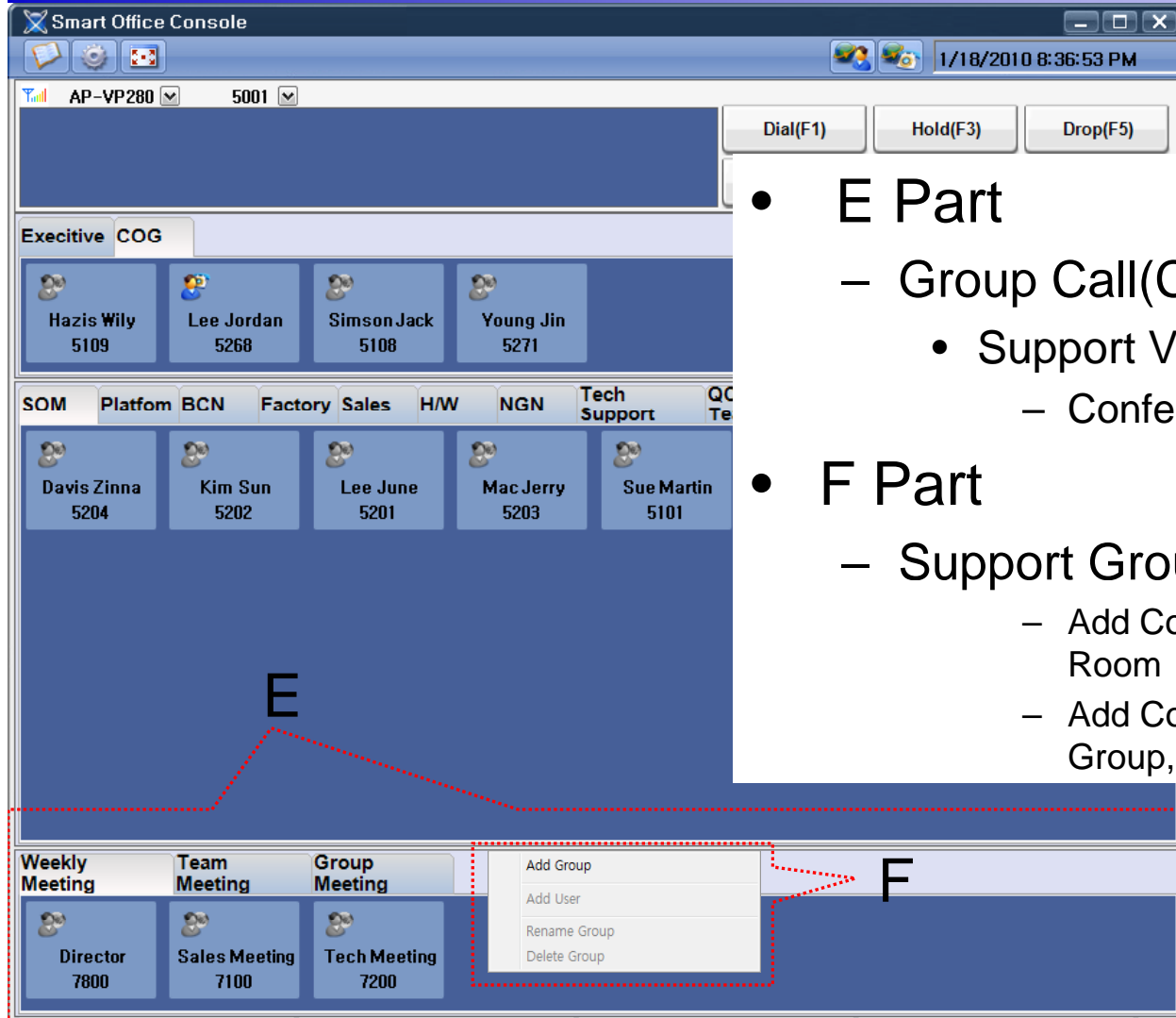
# Smart Office Console

## Main Screen – Monitoring Group



- C Part
  - Group Management Feature
    - Add/Delete/Rename Group
    - Add User
- D Part
  - User Management Feature
    - Add/Delete User
    - Dial to User


# Smart Office Console Main Screen – Group Call



- E Part
  - Group Call(Conference) Part
    - Support Various Group
      - Conference Call Group
- F Part
  - Support Group Management Feature
    - Add Conference Room, Delete Conference Room
    - Add Conference Group, Rename Conference Group, Delete Conference Group



# Application Note (Korea Express Train : KTX)



# Touch Screen based Attendant Console (version 1.1)

# Contents

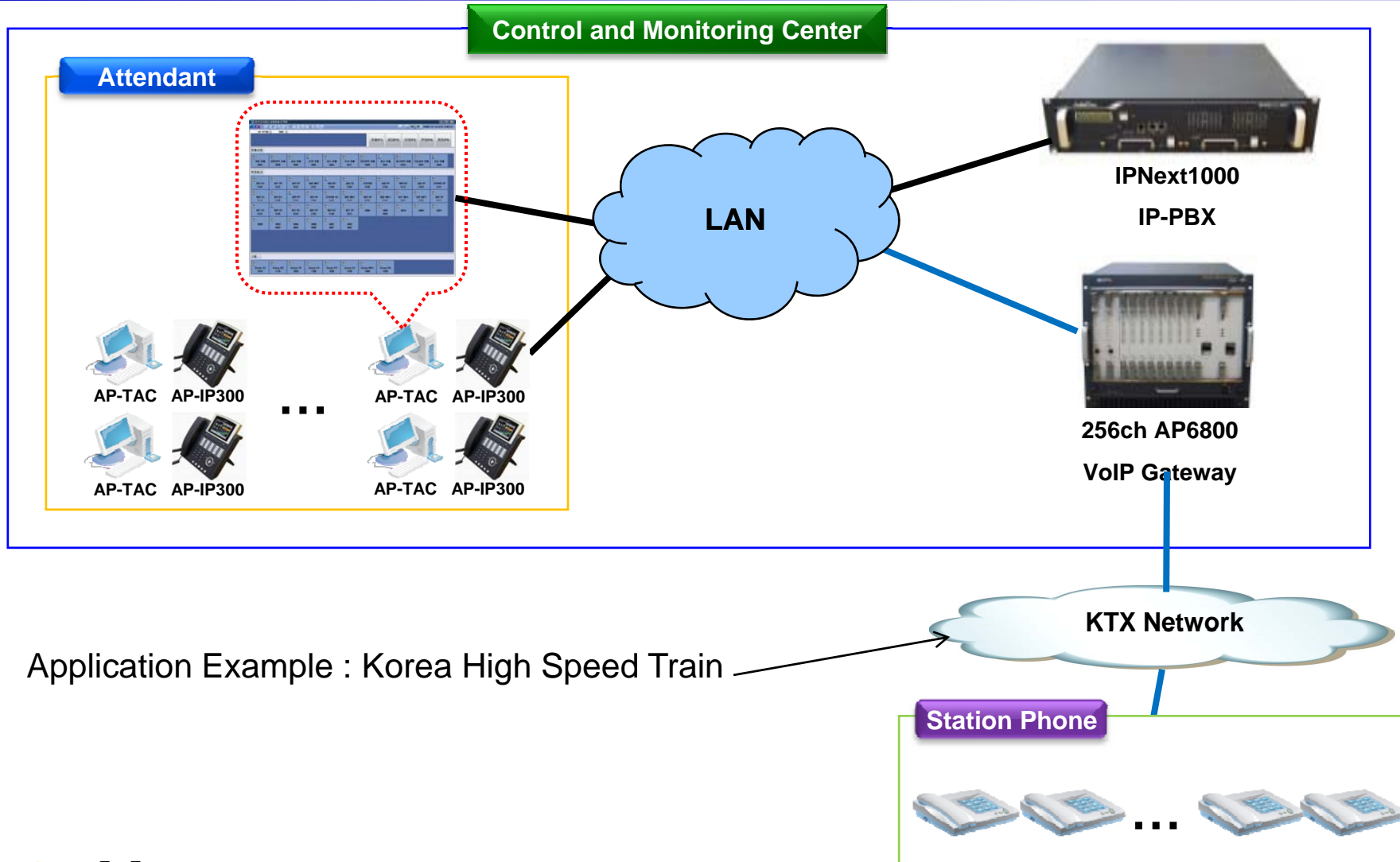
- Overview
- Touch Screen based Attendant Console System Diagram
- Touch Screen based Attendant Console Feature
- Touch Screen based Attendant Console UI
  - Login Feature
  - Main Screen Feature

# Overview

## Support Efficiently Call Routing and Smart Presence Service

- Touch Screen based Attendant Console Function
  - Support Call Routing Service
  - Support User Presence Information
  - Support Phone Number Presence Information
  - Support Attendant Phone Call Control
  - Support Call Status Display
  - Support Group Call(Conference)
  - Support Various Monitoring Group

# Touch Screen based Attendant Console System Diagram



# Touch Screen based Attendant Console Feature

- User Login Service
  - User Login and Logout Feature
- Monitoring and Group Management Service
  - Support Various Group
    - Attendant and Direct Phone Group
    - Office Phone Group
    - Conference Call Group
  - Support Group Management Feature
    - Add Group, Rename Group, Delete Group
    - Add User, Delete User
    - Add Conference Room, Delete Conference Room



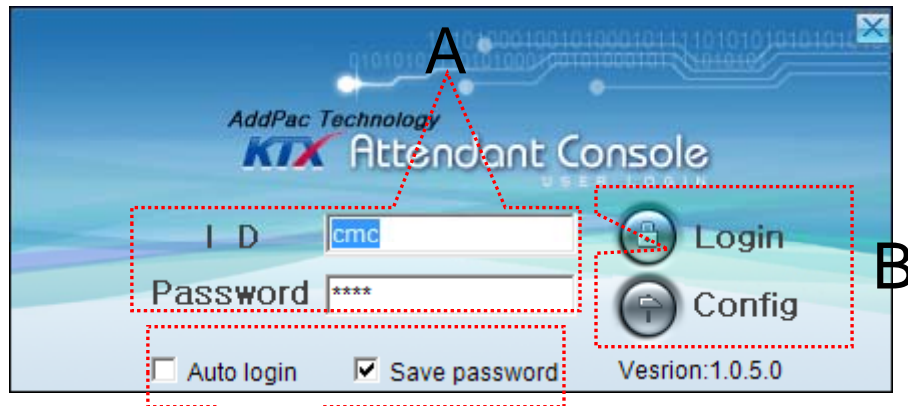
# Touch Screen based Attendant Console Feature

- Monitoring and Group Management Service
  - Presence Feature
    - Phone Presence Status
      - Online, Working, Away, Absence
      - Be In Conference, Call Busy
    - User Presence Status
      - PC Online, Phone Online, PC-Phone Online
      - Working, Away, Absence
      - Be In Conference, Call Busy
    - Display Call Status
      - Display Call Status Icon for Talking Time
  - Call Control Feature
    - Interoperate with Monitoring Phone Information
    - Manual Call Dial
    - Drag and Drop Call Transfer and Manual Call Transfer

# Touch Screen based Attendant Console Feature

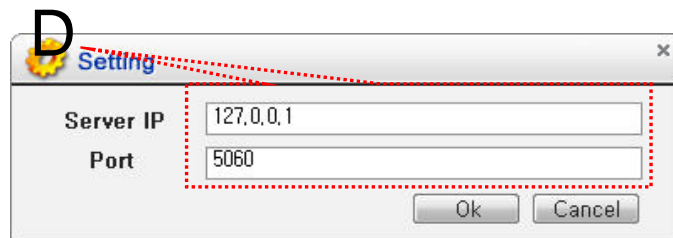
- Attendant Phone Call Control Service
  - Display Phone Call Status
    - Display Call Status Icon for Call Stat
    - Display Talking Call Status Icon for Talking Time
    - Support Multi-Call
  - Phone Call Control Feature
    - Dial to Monitoring Phone and Conference
    - Incoming Call Answer
    - Active Call Hold and UnHold
    - Call Transfer
    - Call Disconnect
    - Interoperate with Monitoring Phone Information
      - Drag and Drop Call Transfer and Manual Call Transfer

# Touch Screen based Attendant Console User Login



[Figure 1]

C



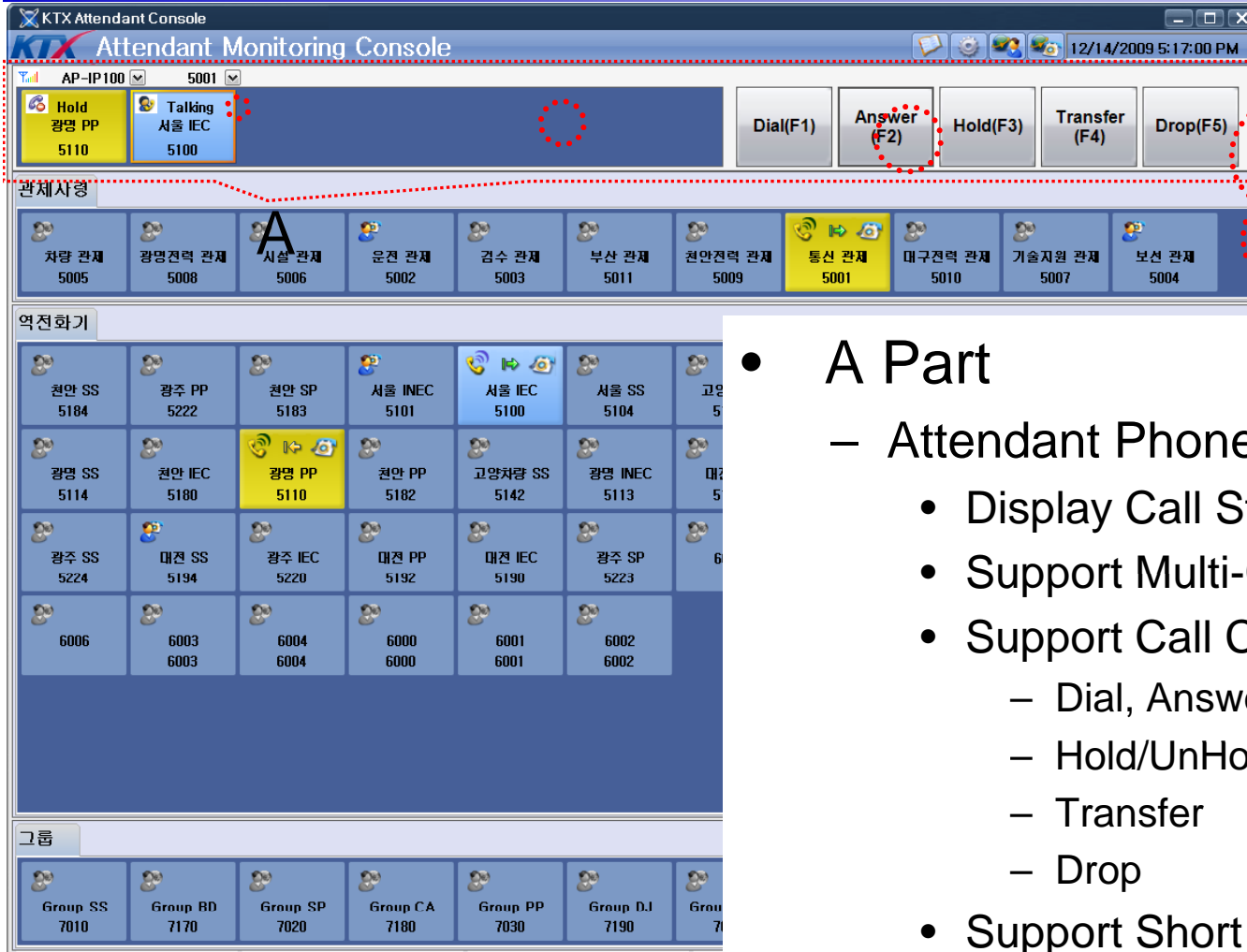
[Figure 2]



[Figure 3]

- Attendant Console Login
  - [Figure 1] shows the login picture of KTX Attendant Console program. “E” of [Figure3] is Icon of KTX Attendant Console Program.
  - When program is started initially, user should set the network configuration parameter such as IP address, Port number of Presence Server.[Figure2]
  - After inputting ID and Password, press the login button

# Touch Screen based Attendant Console Main Screen –Call Control



- A Part
  - Attendant Phone Call Control Part
    - Display Call Status
    - Support Multi-Call Display
    - Support Call Control Feature
      - Dial, Answer
      - Hold/UnHold
      - Transfer
      - Drop
  - Support Short Key Call Control

# Touch Screen based Attendant Console Main Screen – Monitoring



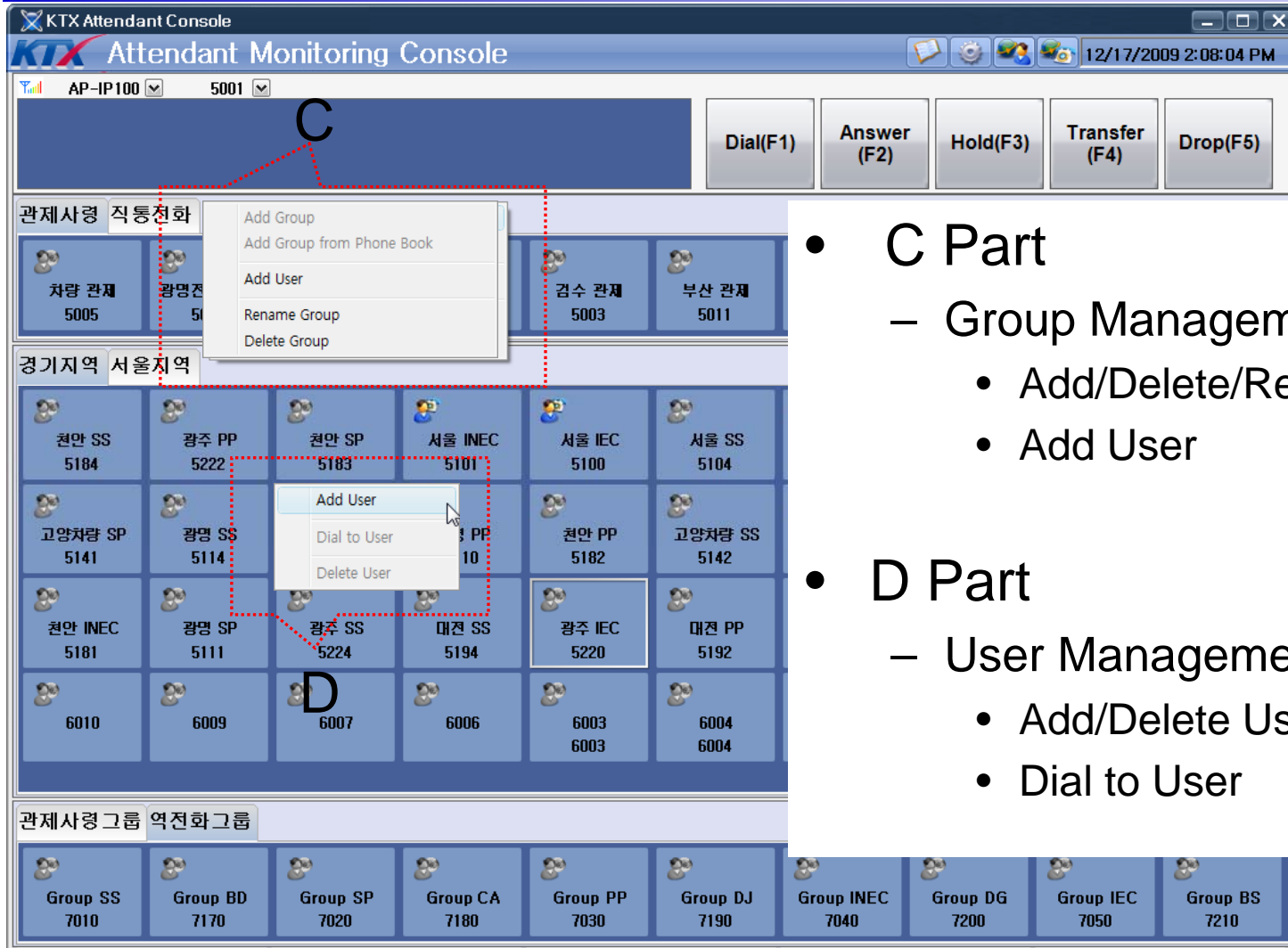
- B Part

- Monitoring Group Part

- Support Various Group
      - Attendant and Direct Phone Group
      - Office Phone Group
    - Support Group Management Feature
      - Add Group, Rename Group, Delete Group
      - Add User, Delete User
    - Provide Various User Presence Status
      - » PC Online, PC-Phone Online, Phone Online
      - » Offline, Away, Absence
      - » Be in Conference, Call Busy
    - Display Call Status

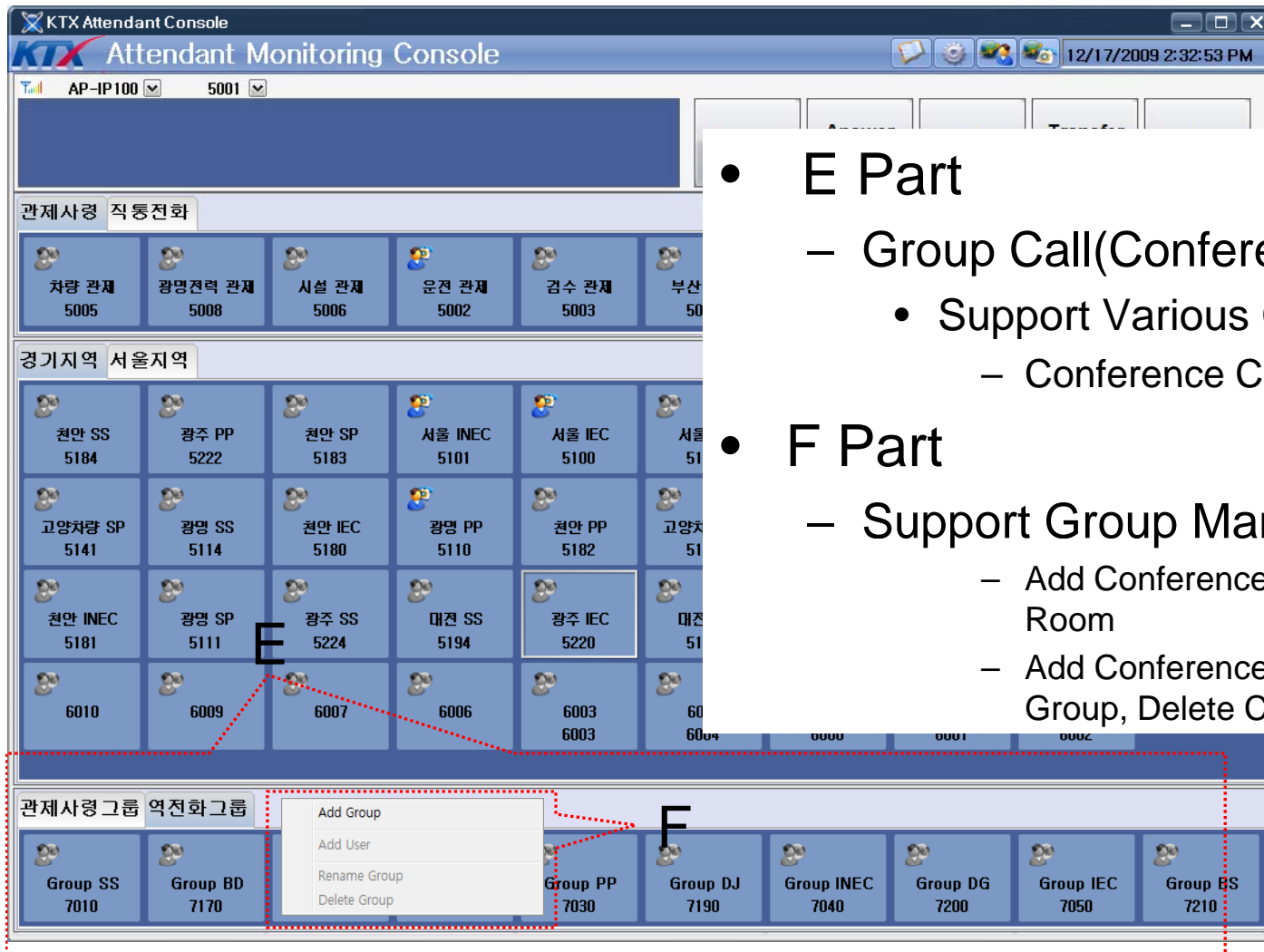


# Touch Screen based Attendant Console Main Screen – Monitoring Group



- C Part
  - Group Management Feature
    - Add/Delete/Rename Group
    - Add User
  
- D Part
  - User Management Feature
    - Add/Delete User
    - Dial to User

# Touch Screen based Attendant Console Main Screen – Group Call



- E Part
  - Group Call(Conference) Part
    - Support Various Group
      - Conference Call Group
- F Part
  - Support Group Management Feature
    - Add Conference Room, Delete Conference Room
    - Add Conference Group, Rename Conference Group, Delete Conference Group



# Thank you!

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