

AP-ACS1000 DACS (Door Access Control System)

SIP 그룹 방송 기능 소개



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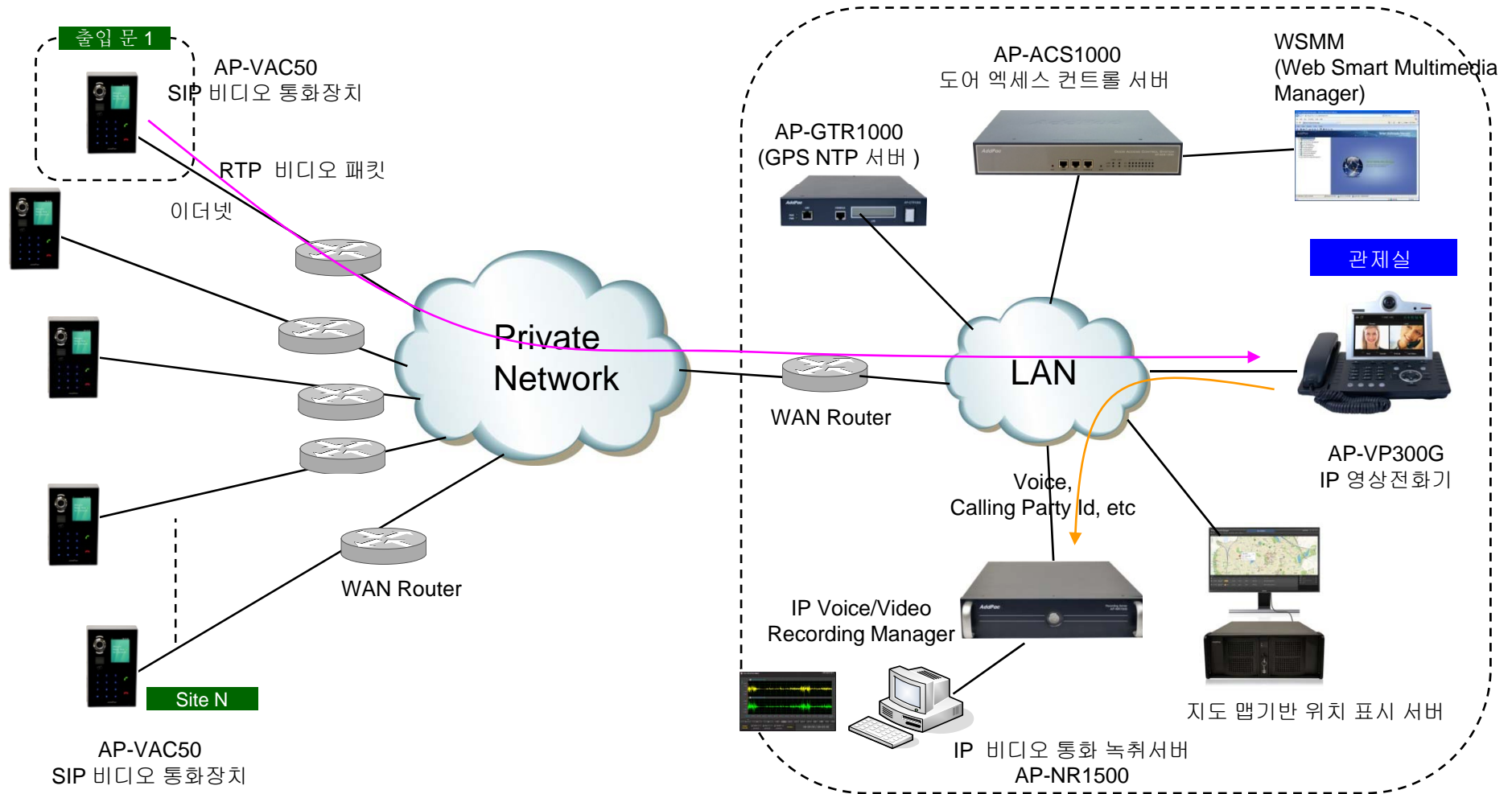
Sales and Marketing

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- SIP 음성 그룹방송 기능 소개

네트워크 다이어그램



AP-VAC50

SIP 비디오 도어폰



제품 소개

- High Performance IP Video Door Phone Solution
- Video Camera, 3x4 Key, TFT Color LCD, Internal MIC & Speaker
- High Quality 2.4 Inch LCD, 320 x 240 Video Resolution
- SIP VoIP Signaling Stack Embedded
- High-performance Video/Voice Codec Support
 - H.264/MPEG4, G.711, etc
- One(1) 10/100Mbps Fast Ethernet
- PoE(Power over Ethernet) Support
- High Quality Speaker Phone Features
- Powerful Acoustic Echo Canceller Chip Embedded
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Advanced Voice QoS Mechanism

하드웨어 사양

RISC
CPU

High-end
DSP

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
 - 3 x 4 key PAD
- Video Camera Interface
- TFT Color LCD Interface
 - 2.4 Inch LCD, 320 x 240 Video Resolution
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- RF Card Interface
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- External RCA Audio Line Out and MIC In (back side)
- Power Supply
 - Power over Ethernet (Option)
 - External Power Supply

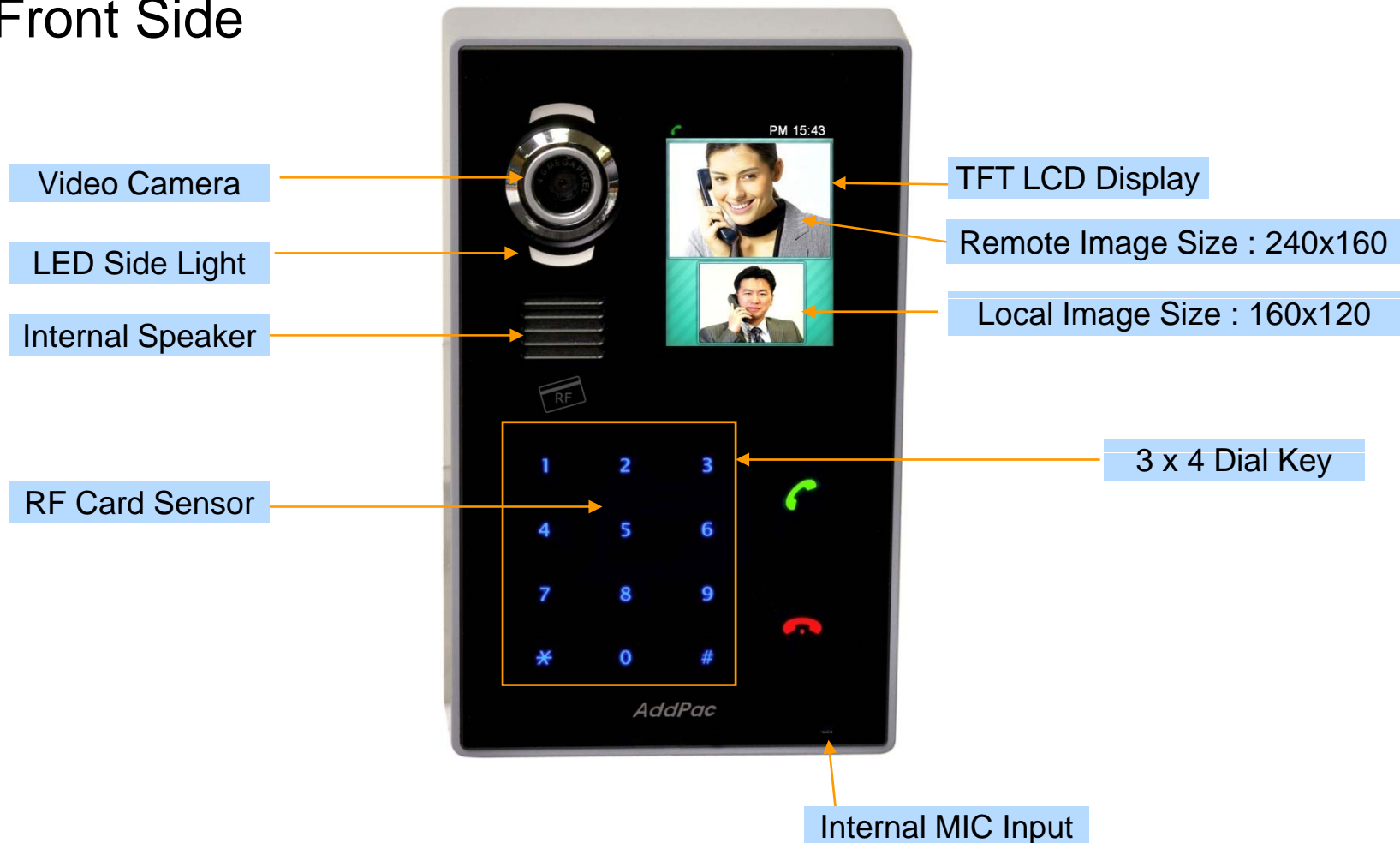


하드웨어 사양

RISC
CPU

High-end
DSP

Front Side

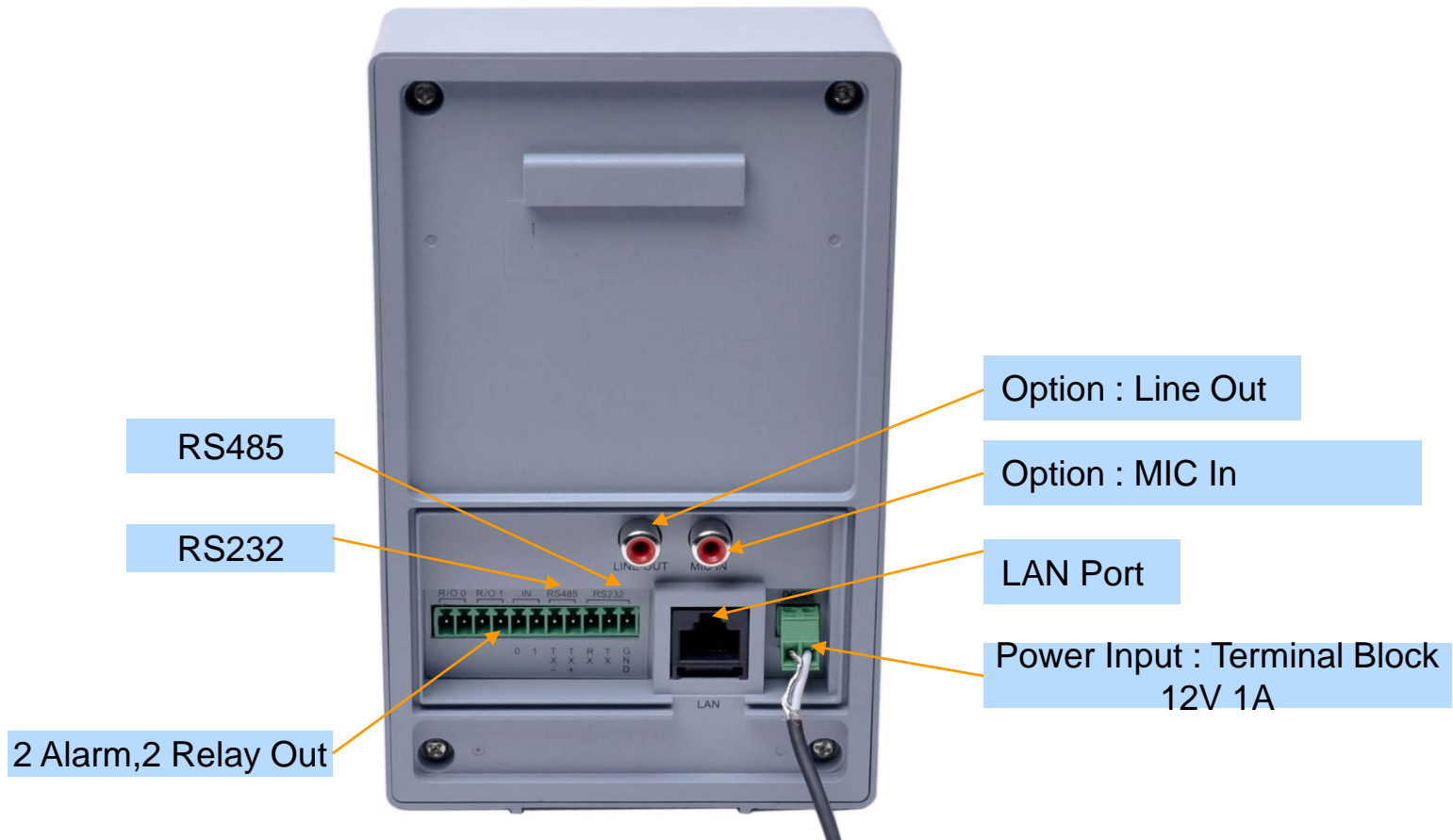


하드웨어 사양

RISC
CPU

High-end
DSP

Back Side



AP-ACS1000

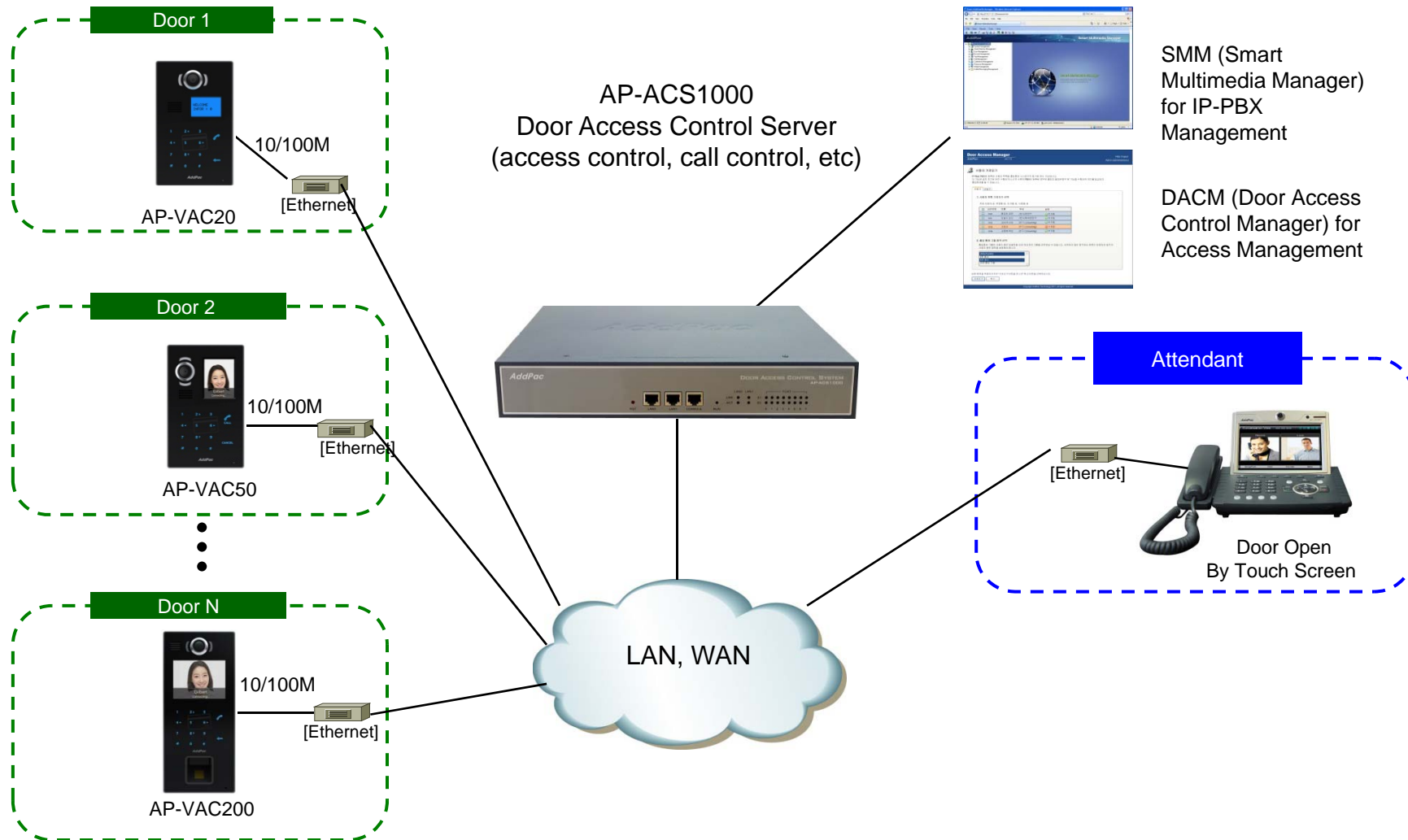
도어 액세스 컨트롤 서버

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- AP-ACS1000 DACS Main Features
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- Open API for Third Party Controller

Integrated Door Access Control and Call Control

AP-ACS1000 DACS (Door Access Control System)



제품 소개

- Door Access Control Application System
- SIP Application Server, Proxy, Registrar and Location Server
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
- Legacy PBX Interworking Service
- High Performance RISC & Programmable DSP Architecture
- Two(2) 10/100Mbps Fast Ethernet (IP Share ,etc)
- High Performance LAN-to-LAN Routing Capability
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- IPv4/IPv6 Dual Stack
- Firmware Upgradeable Architecture
- Smart Multimedia Manager for IP-PBX Management
- DACM(Door Access Control Manager)
- Advanced Voice QoS Mechanism
- Small, Light and Compact Design
- Two(2) VoIP Module Slots for Analog, Digital Interface

하드웨어 사양

- RISC Microprocessor Computing Power
- Main Chassis
 - Network Interface
 - Two(2) 10/100Mbps Fast Ethernet
 - One(1) RS-232C Console (RJ45)
 - Two(2) VoIP Module Slots for FXS, FXO etc



하드웨어 사양

AP-ACS1000 Front Side



LAN1 (10/100Mbps)

LAN0(10/100Mbps)

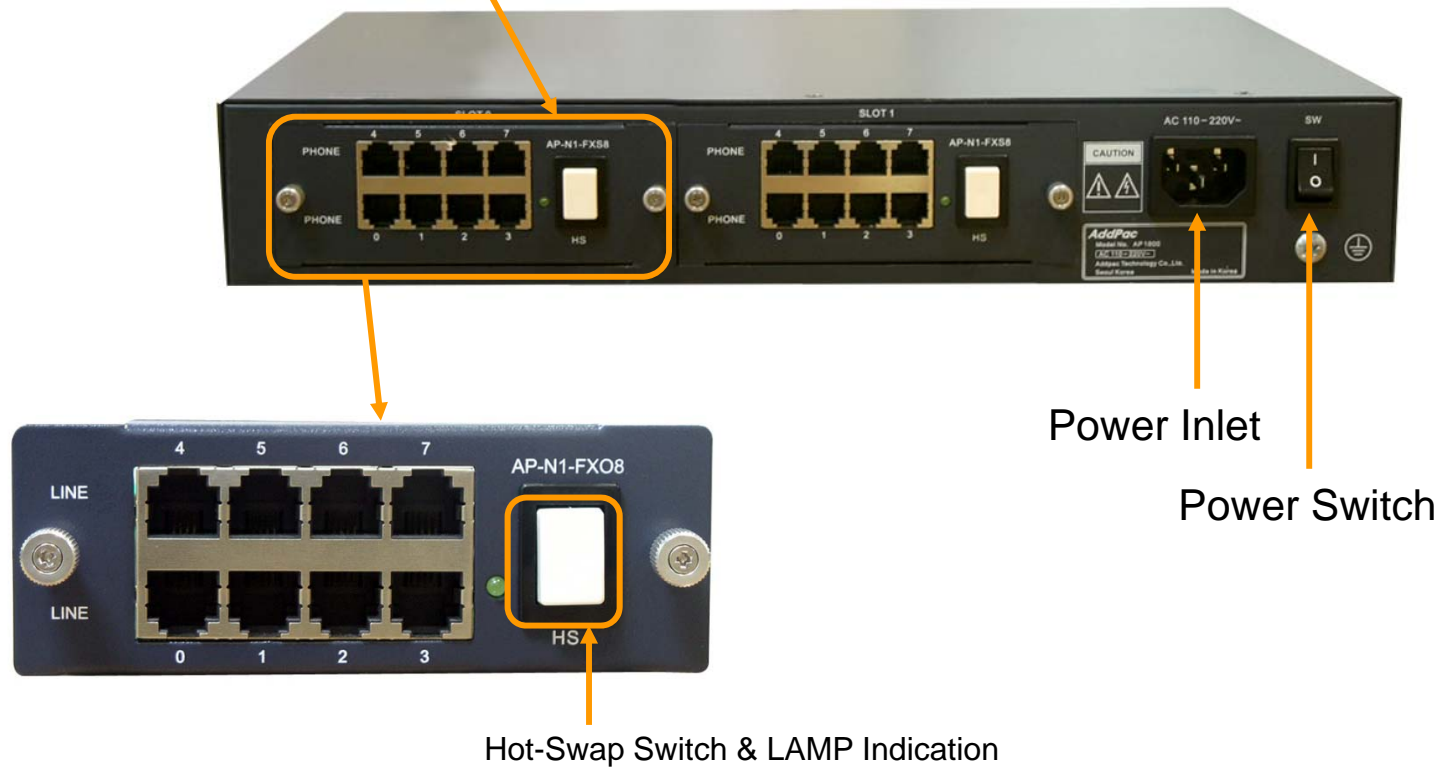
Console Port

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하드웨어 사양

AP-ACS1000 Back Side

PSTN Interface Module

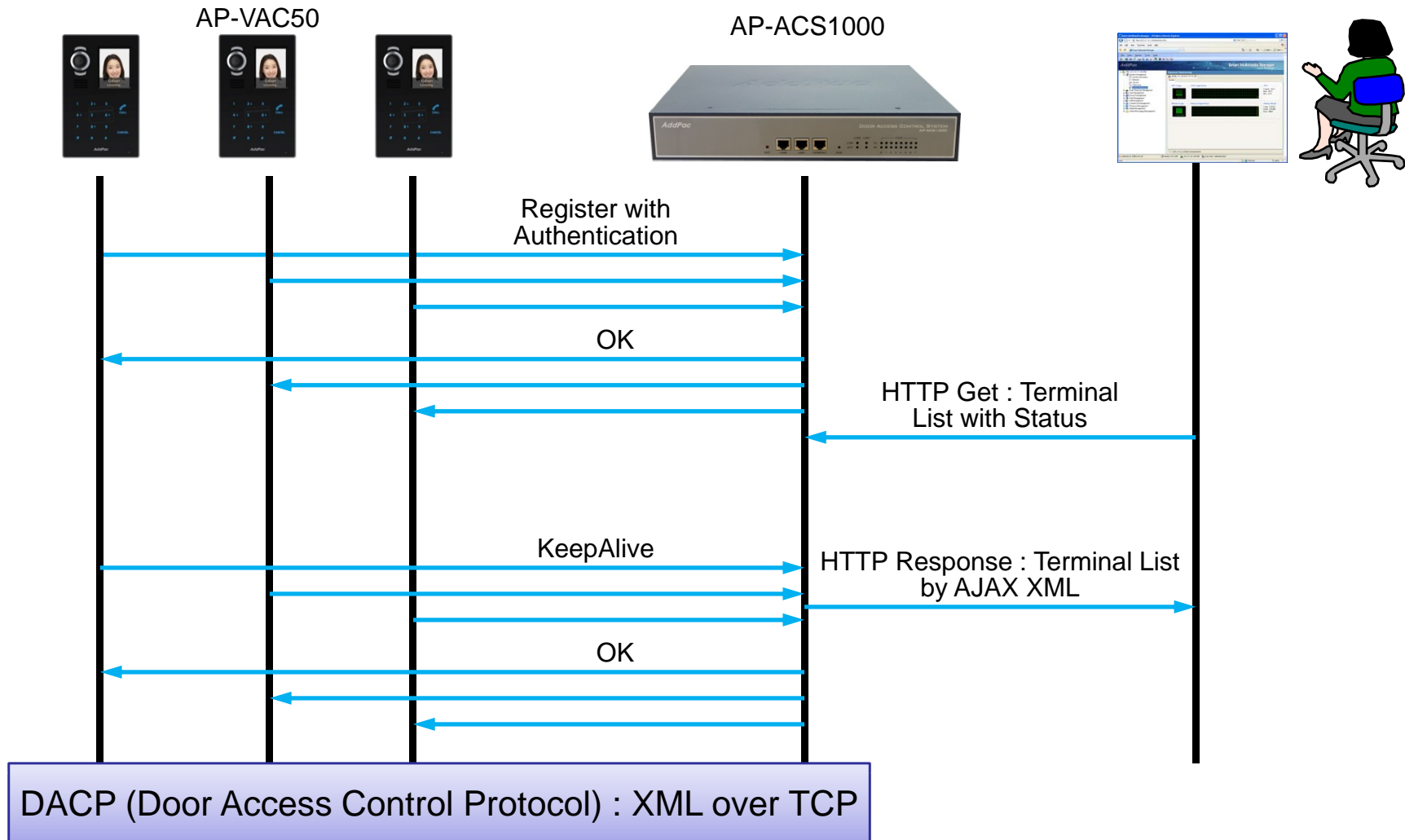




DACS System Message Flow

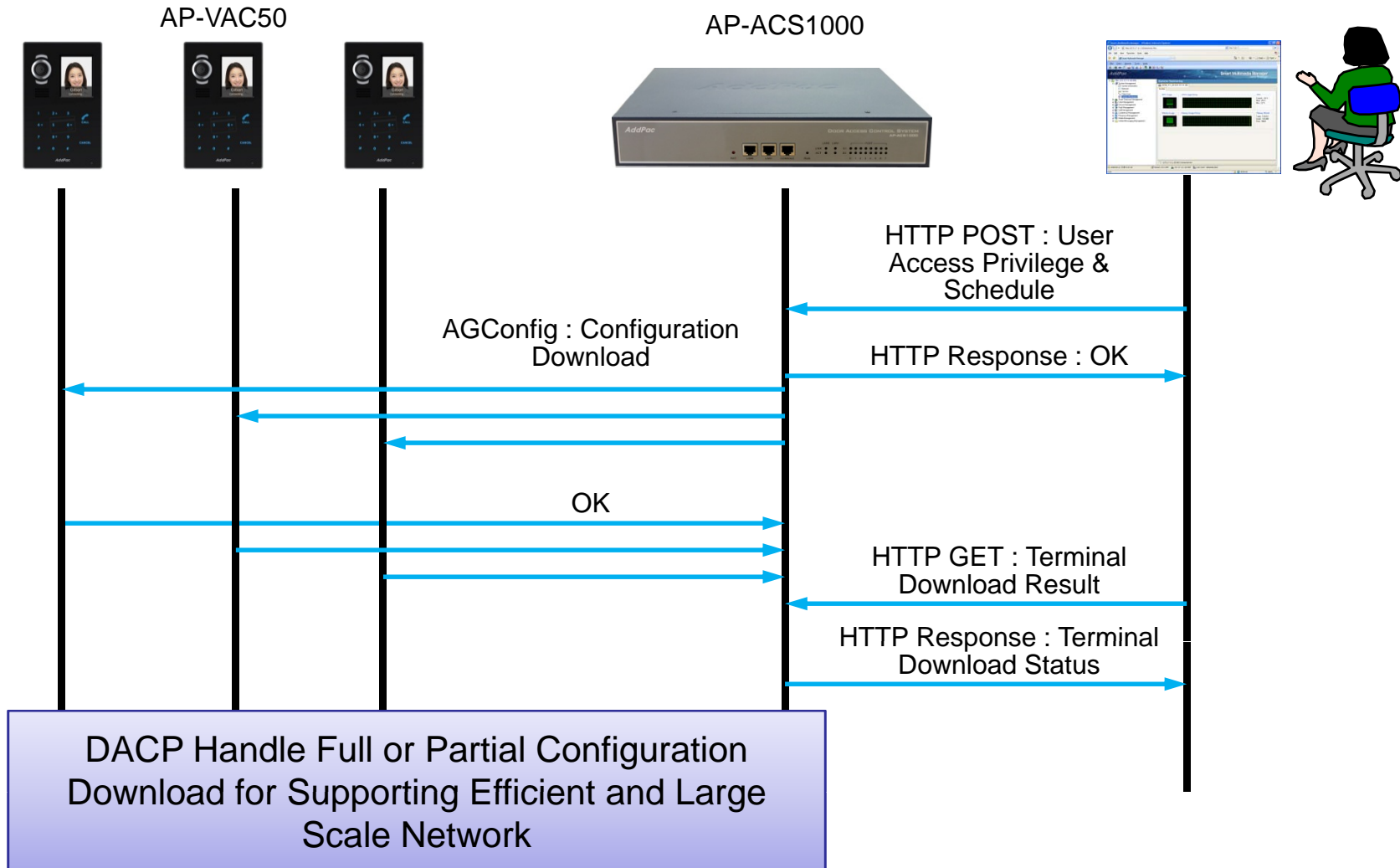
DACS System Message Flow

Registration and KeepAlive



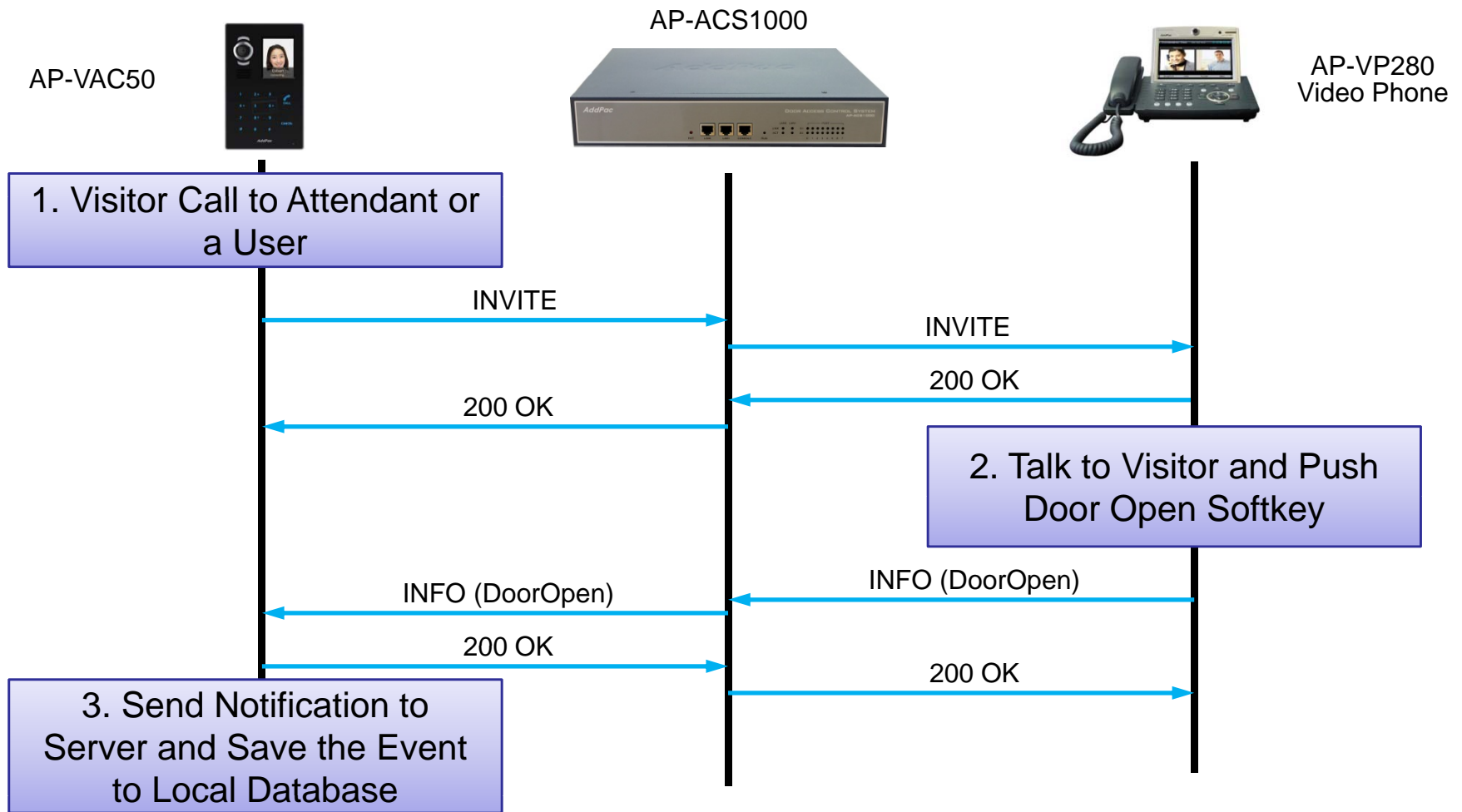
DACS System Message Flow

Access Privilege and Schedule Download



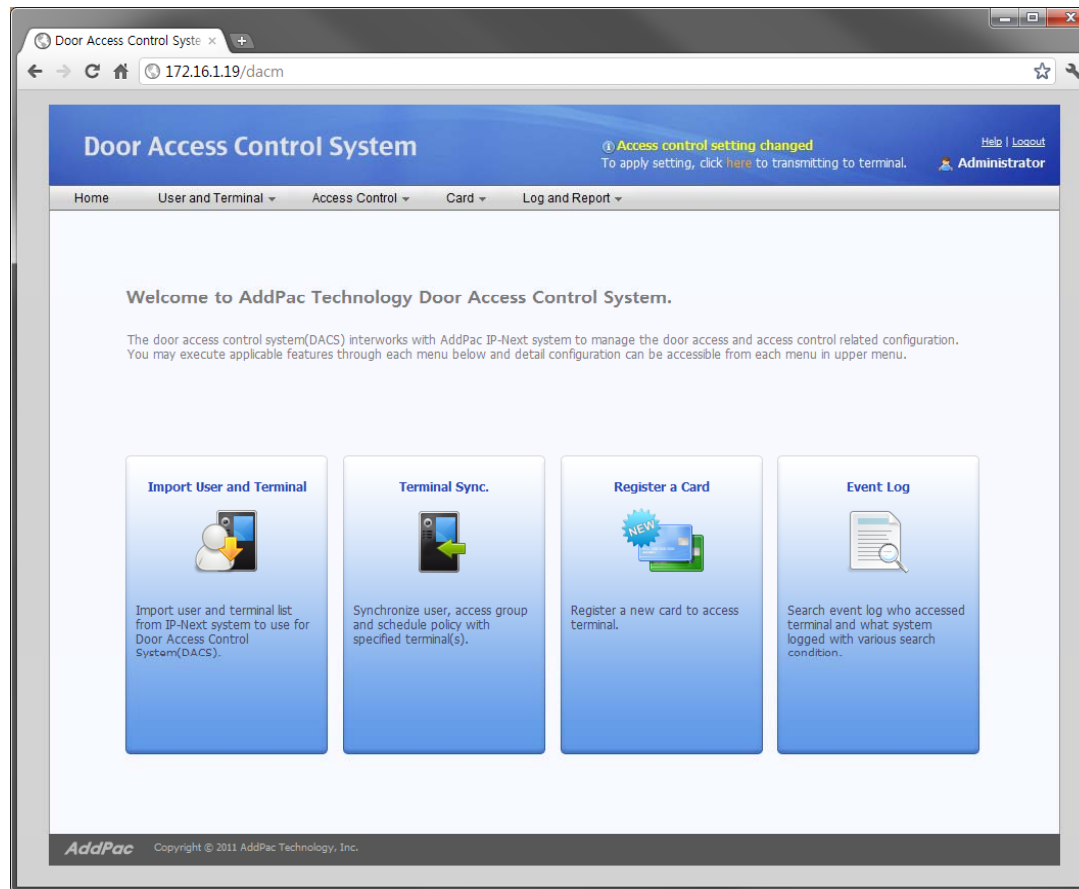
DACS System Message Flow

Door Open by Other Terminal



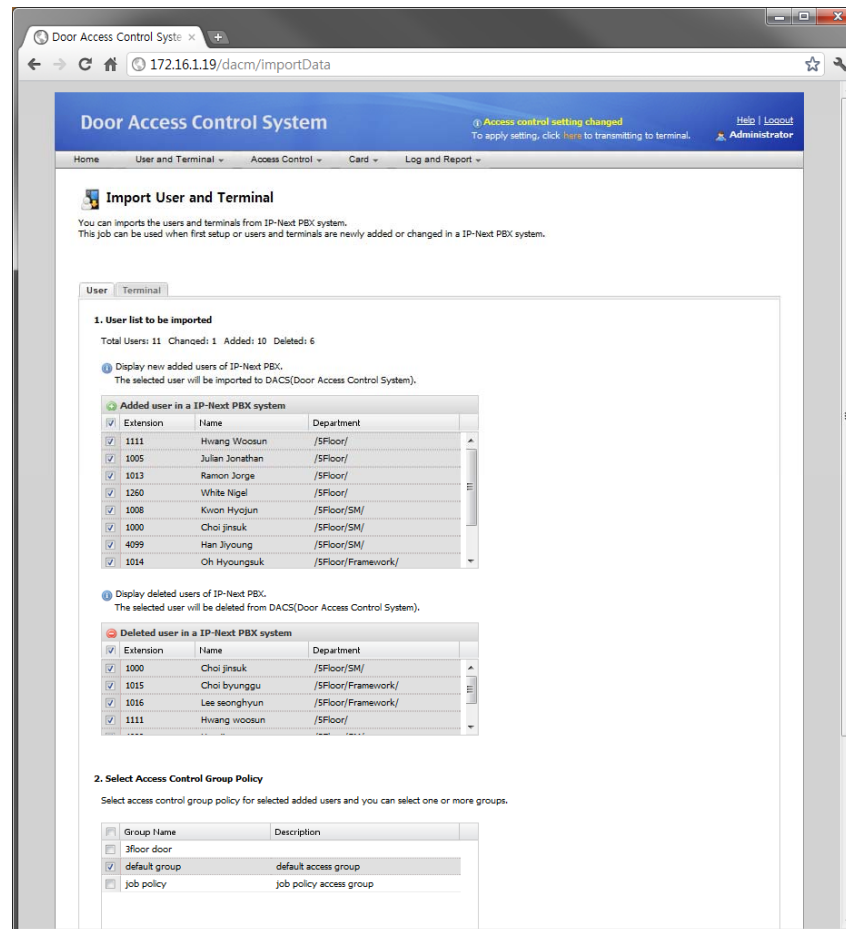
DACM (Door Access Control Manager)

Main Web Page



DACM (Door Access Control Manager)

Import User and Terminal



DACM (Door Access Control Manager)

User List

The screenshot shows a web browser window displaying the 'Door Access Control System' user list. The page title is 'Door Access Control System' and the URL is '172.16.1.19/dacm/userList'. A notification at the top right states 'Access control setting changed' with a link to 'here' and a 'Logout' button. The user is logged in as 'Administrator'. The main content area is titled 'User List' and includes a search bar with a dropdown set to 'All Users' and an 'Import User' button. Below the search bar is a table with the following data:

	Extension	Name	Department	Access Policy	Date Created	Modify	Delete
1	1000	Choi jinsuk	/SFloor/SM/	Access Allow	2011-07-22 15:50:01		
2	1008	Kwon hyojun	/SFloor/SM/	Access Allow	2011-07-22 15:50:00		
3	1014	Oh hyongsuk	/SFloor/Framework/	Access Allow	2011-07-22 15:50:01		
4	1015	Choi byunggu	/SFloor/Framework/	Access Allow	2011-07-22 15:50:01		
5	1016	Lee seonghyun	/SFloor/Framework/	Access Allow	2011-07-22 15:50:01		

At the bottom of the page, there is a pagination control showing 'Page 1 of 1' and a 'Total: 5' indicator. The footer contains the 'AddPac' logo and 'Copyright © 2011 AddPac Technology, Inc.'

DACM (Door Access Control Manager)

Terminal List

Door Access Control System

Access control setting changed
To apply setting, click [here](#) to transmitting to terminal.

Help | Logout
Administrator

Home User and Terminal Access Control Card Log and Report

Terminal List

Display the registered door phone lists imported from IP-Next PBX system.

Import Terminal

	Terminal Name	Description	Status	Extension	IP Address	Model Name	Version	Date Created	Detail View
1	2floor door terminal	2Floor door ter...	Connected	1006	172.16.10.4	AP-VAC50		2011-07-29 17:08:50	
2	3floor door terminal	3Floor door ter...	Connected	1002	172.16.10.1	AP-VAC20	8.50.001	2011-07-22 15:50:01	
3	5floor door terminal	5Floor door ter...	Connected	1005	172.16.10.2	AP-VAC50		2011-07-29 17:08:50	
4	The main entrance d...	The main entran...	Connected	Required setting	172.16.10.3	AP-VAC100		2011-07-29 17:08:50	

Page 1 of 1 Total: 4

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DACM (Door Access Control Manager)

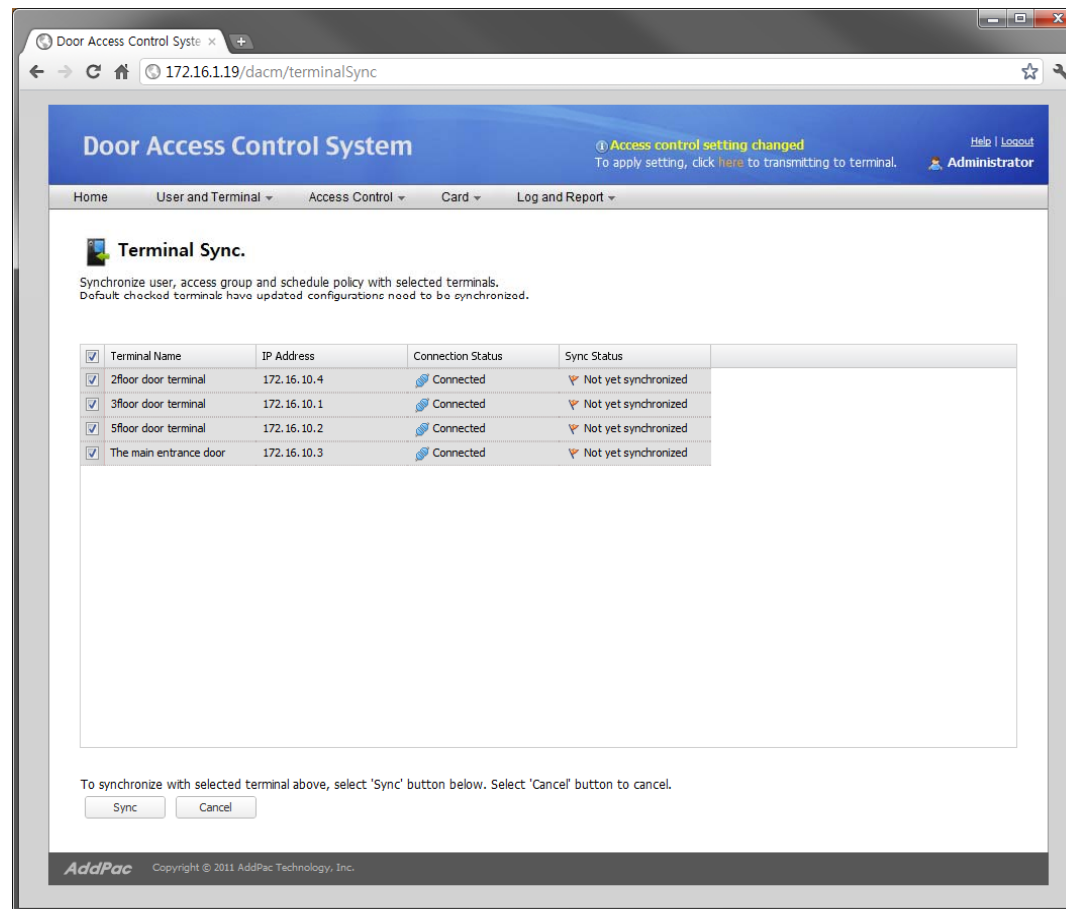
Access Control Group Management

The screenshot displays the 'Door Access Control System' web interface. The browser address bar shows '172.16.1.19/dacm/accessGroupList'. The page title is 'Door Access Control System'. A notification banner at the top right states 'Access control setting changed' and provides instructions to apply settings. The navigation menu includes 'Home', 'User and Terminal', 'Access Control', 'Card', and 'Log and Report'. The main content area is titled 'Access Control Group' and includes a brief description: 'You can define a new Access Control Group with one or more terminals, users and schedule policy. Also, you can adjust priority of access control group using up/down arrow (or mouse drag/drop)'. A table lists existing groups with columns for Group Name, Description, Schedule Policy, Date Created, Modify, and Delete. The table contains three entries: '3floor door', 'job policy', and 'default group'. A footer at the bottom left shows the 'AddPac' logo and copyright information.

Group Name	Description	Schedule Policy	Date Created	Modify	Delete
3floor door		All Allow	2011-06-28 11:37:13		
job policy	job policy access group	working day	2011-07-04 17:06:47		
default group	default access group	All Allow	2011-06-28 11:37:13		

DACM (Door Access Control Manager)

Configuration Download to Terminal



Door Access Control System

Access control setting changed
To apply setting, click [here](#) to transmitting to terminal.

Help | Logout
Administrator

Home User and Terminal Access Control Card Log and Report

Terminal Sync.

Synchronize user, access group and schedule policy with selected terminals.
Default checked terminals have updated configurations need to be synchronized.

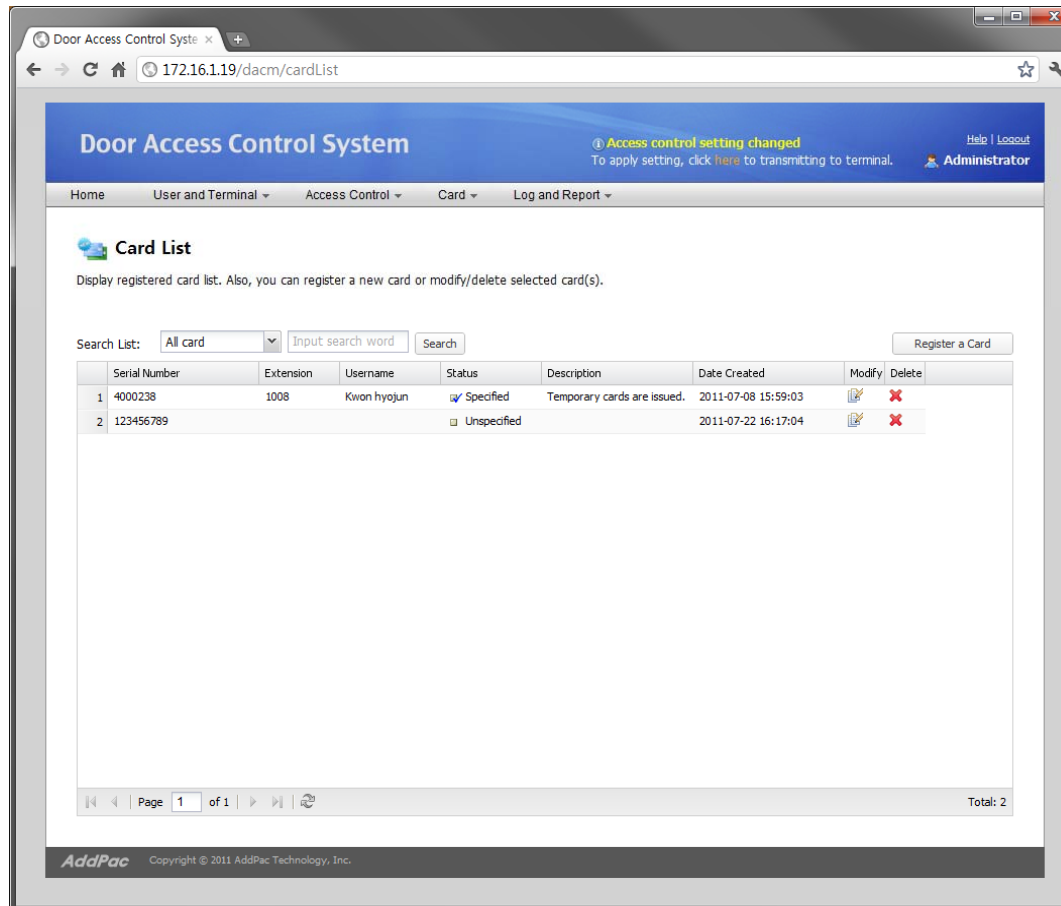
<input checked="" type="checkbox"/>	Terminal Name	IP Address	Connection Status	Sync Status
<input checked="" type="checkbox"/>	2floor door terminal	172.16.10.4	Connected	Not yet synchronized
<input checked="" type="checkbox"/>	3floor door terminal	172.16.10.1	Connected	Not yet synchronized
<input checked="" type="checkbox"/>	5floor door terminal	172.16.10.2	Connected	Not yet synchronized
<input checked="" type="checkbox"/>	The main entrance door	172.16.10.3	Connected	Not yet synchronized

To synchronize with selected terminal above, select 'Sync' button below. Select 'Cancel' button to cancel.

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DACM (Door Access Control Manager)

RF Card Management



The screenshot displays the 'Door Access Control System' web interface. The browser address bar shows '172.16.1.19/dacm/cardList'. The page title is 'Door Access Control System'. A notification banner at the top right states 'Access control setting changed' and provides instructions to apply settings. The user is logged in as 'Administrator'. The main content area is titled 'Card List' and includes a search filter set to 'All card' and a search input field. A table lists two registered cards with columns for Serial Number, Extension, Username, Status, Description, Date Created, Modify, and Delete. The first card has a status of 'Specified' and the second is 'Unspecified'. A 'Register a Card' button is located to the right of the search area. The footer shows 'AddPac Copyright © 2011 AddPac Technology, Inc.' and a pagination bar indicating 'Page 1 of 1' and 'Total: 2'.

Serial Number	Extension	Username	Status	Description	Date Created	Modify	Delete
1 4000238	1008	Kwon hyojun	<input checked="" type="checkbox"/> Specified	Temporary cards are issued.	2011-07-08 15:59:03		
2 123456789			<input type="checkbox"/> Unspecified		2011-07-22 16:17:04		

DACM (Door Access Control Manager)

Access Log Management

The screenshot shows a web browser window displaying the 'Door Access Control System' interface. The page title is 'Door Access Control System' and the URL is '172.16.1.19/dacm/eventLog'. The interface includes a navigation menu with 'Home', 'User and Terminal', 'Access Control', 'Card', and 'Log and Report'. A notification banner at the top right states 'Access control setting changed' and provides a link to 'Apply setting, click here to transmitting to terminal.' The user is logged in as 'Administrator'. The main content area is titled 'Event Log' and contains a search form with fields for 'Duration' (11-07-10 to 11-08-09), 'User Extension Number', and 'Event Level' (set to 'Error'). Below the search form is a table of event logs with columns for 'Time', 'Level', 'User Extension', and 'Event'. The table contains 7 entries. At the bottom of the page, there is a pagination control showing 'Page 1 of 1' and a 'Total: 7' indicator. The footer includes the 'AddPac' logo and 'Copyright © 2011 AddPac Technology, Inc.'

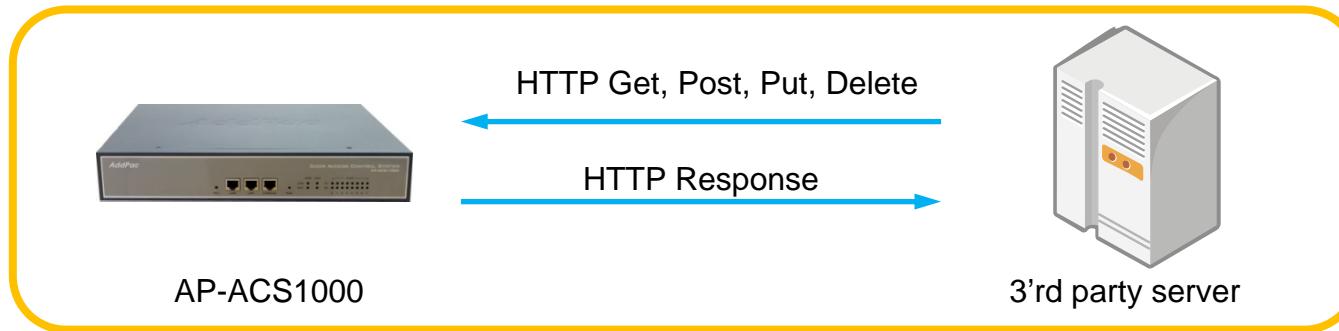
	Time	Level	User Extension	Event
1	2011-07-15 10:27:27	Warning	1000	authentication failure
2	2011-07-15 11:25:27	Notice	1000	registration success
3	2011-07-15 12:21:27	Notice	1200	registration success
4	2011-07-16 09:27:27	Information	1201	door opened
5	2011-07-16 11:27:27	Information	1007	registration success
6	2011-07-16 17:12:00	Notice		security profile downloading completed
7	2011-07-17 18:00:00	Notice		system started



AP-ACS1000 Open API

Open API

Open API for 3'rd Party Management System



- HTTP based RESTful Open API for Door Access Management
- XML based Flexible and Expandable Message Contents
- Provides More than 40 APIs as Bellow
 - user_list(GET), user(GET, POST, PUT, DELETE), ...
 - terminal_list(GET), terminal(GET, POST, PUT, DELETE), ...
 - access_group(GET, POST, PUT, DELETE), priority (PUT), ...
 - card_list(GET), card(POST, PUT, DELETE), ...
 - schedule_template(GET, POST, PUT, DELETE), rule(GET, POST, PUT, DELETE) ,...

AP-VP300G IP 영상전화기



제품 소개

- IP based Video Phone Solution
- High-Quality Video, Audio, and Voice Service
- High Performance Programmable Video DSP
- Video Telephony and Videoconferencing Service Features
- Built-In CCD Camera, Touch Screen LCD Control
- H.323 and SIP Dual VoIP Signaling Protocols
- H.264/H.263/MPEG4 Video Codec Support
- Two(2) 10/100/1000Mbps Gigabit Ethernet
- HDMI Interface for External HDTV
- Various Call Scenario Support
- Call Status Monitoring Support
- TLS/SRTP Security Protocol Support (AES, etc) : Option
- XML Browser Support
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection

주요 특징

- 7 Inch LCD Display, Built-in CCD Camera
- External Video Interface
 - HDMI Video Out, Composite (RCA) Video In/Out, Audio (RCA) In/Out
- High-performance Video Codec Support
 - H.263, MPEG-4, and H.264
- Powerful Image Resolution Support
 - QCIF(176x144), CIF(352x288), QVGA(320x240), VGA(640x480)
- Up to 30fps with VGA-Resolution for Internal LCD, Built-In Camera
- HDMI Output Interface for External HD TV
- Video Conference Call Support (AddPac External MCU Inter-working)
- SIP, H.323 Signaling Support
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error

하드웨어 사양

High-end
DSP

- High-end Programmable DSP Hardware Architecture
- Video Input Interface
 - RCA Video Input
- Video Output Interface
 - RCA Video Output, HDMI Video Output
- High quality Audio and Voice Interface
 - Stereo Audio Input & Output Connector
- Network Interface
 - Two(2) 10/100/1000Mbps Gigabit Ethernet
 - One(1) RS-232C Console
 - One(1) USB Interface
- Power Supply
 - External Power Adaptor

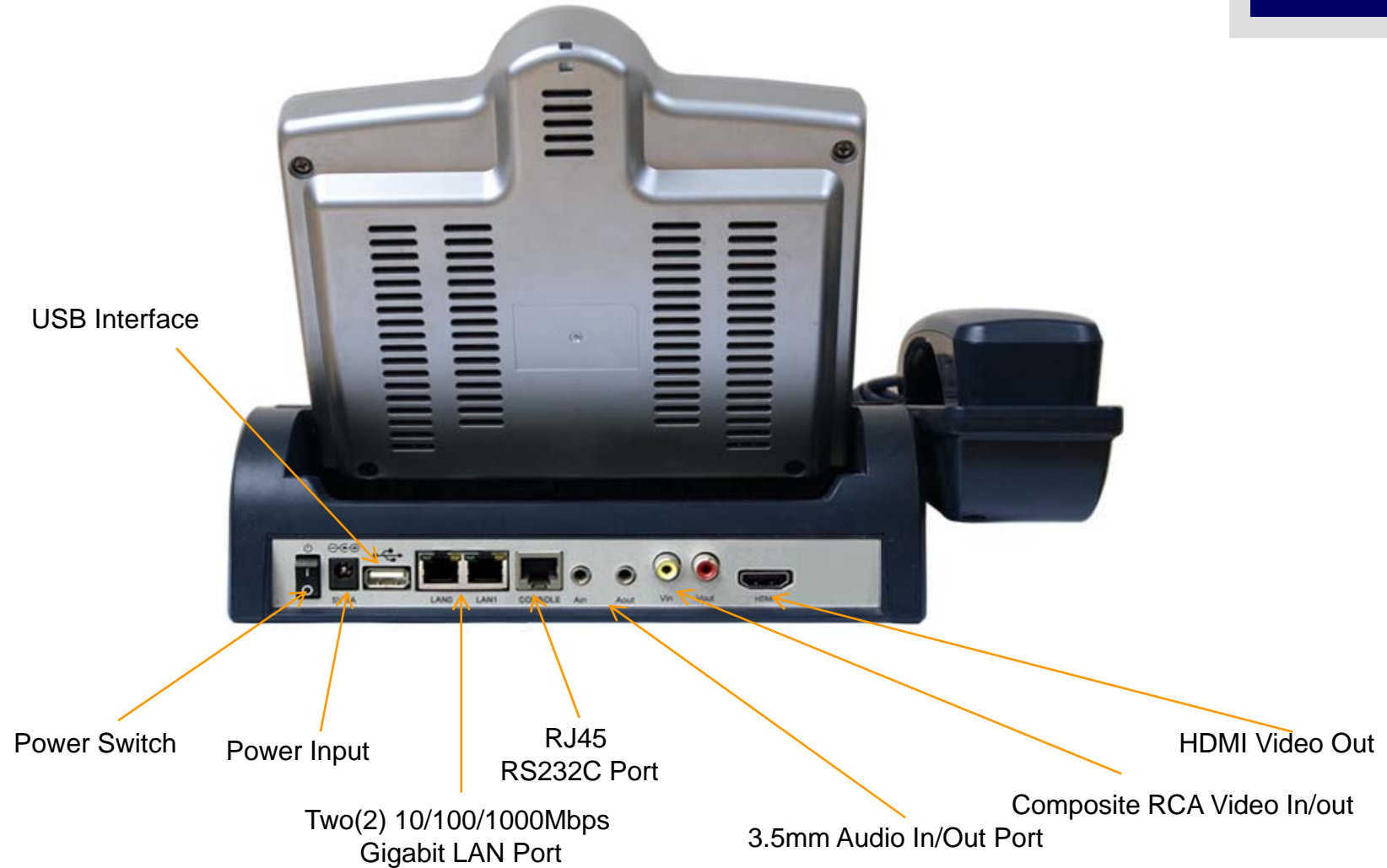
하드웨어 사양

High-end
DSP



하드웨어 사양

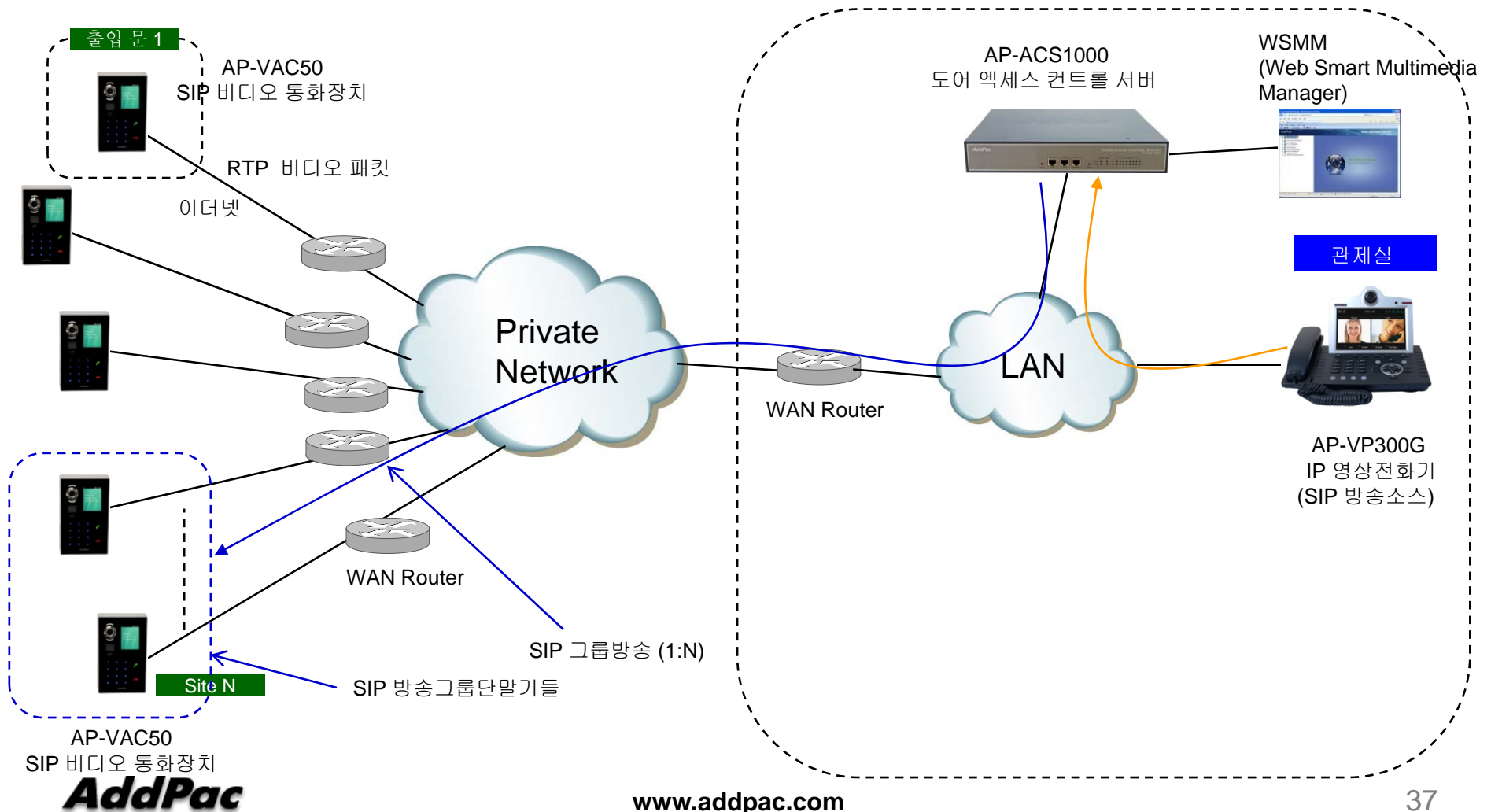
High-end
DSP





SIP 음성 그룹 방송 기능 소개
(ACS1000 Call Manager Smart Web Manager)

네트워크 다이어그램 (SIP 그룹 페이징)



부가 기능 설정 (SIP 그룹 페이징)

Smart Multimedia Manager
www.addpac.com

Extensions

Modify	Delete	User Portal	Extension Number	Type	Name	Date Created
			1000	User Extension	WACSON A	2020-04-21 10:14:43
			1001	User Extension	WACSON B	2020-04-21 10:15:11

Add an Extension

- Park Pool**
A park pool is a set of extensions for parking calls. When a user parked an active call, an extension in this pool will be assigned. Other user can pick up the parked call using the parked extension number.
- Conference Room**
A conference room extension is used for making a conference room. The conference room can be open by WSM or User Portal web page or by call to conference room number by privileged user (chair or operator) or by schedule. In case of dial-out participants, they receive call when conference is opening. In case of dial-in participants, they have to make a call to conference extension to join to opened conference.
- IVR Extension**
An IVR (Interactive Voice Response) extension has a role of auto attendant for incoming calls from trunks. If incoming calls from trunk are routed to an IVR extension by incoming call rule, the interactive scenario will be proceed to transfer the call to a proper user 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.
- Dispatcher**
A dispatcher is an extension for a 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 by speaker phone. This is half-duplex one-way broadcasting.
- Attendant Queue**
The Attendant Queue is used for attendants in 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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그룹 방송 부가기능 설정

SIP 그룹 페이징 설정

Smart Multimedia Manager
www.addpac.com

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
			1000	User Extension	VACSON A	2020-04-21 10:14:43
			1001	User Extension	VACSON B	2020-04-21 10:15:11

Status | Add an Extension | Paging Group

Add a Paging Group

Add | Cancel | Advanced Options

Extension * (2-12 digits) [Check Extension](#)

Name *

Audio Codec

Play beep at start

Play Announcement

Group Members

Extensions	Paging Group Members			
Extension	Name	Extension	Display Name	Multicast
<input type="text"/>	<input type="text"/>			

Specify Phone Number:

Authorization

Extensions	Authorized Members			
Search	Name	Extension	Display Name	Multicast
<input type="text"/>	<input type="text"/>			

Description
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. Only authorized members can make a paging by dialing the paging extension.

Related Links

- User Extension
- Announcement and Tones
- Partitions

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SIP 그룹 페이징 설정 (방송소스단말(AP-VP300G), 방송그룹단말 기 등록 (AP-VAC50N))

The screenshot displays the 'Add a Paging Group' configuration page in the Smart Multimedia Manager. The interface includes a sidebar with navigation options like Extensions, Trunks, and PBX Services. The main content area shows the following configuration details:

- Extension *:** 3000 (2-12 digits)
- Name *:** Paging Group_A
- Audio Codec:** G.711U
- Play beep at start:** Beep Sound 3
- Play Announcement**

The 'Paging Group Members' table is populated with the following data:

Name	Extension	Display Name	Multicast
VAC50N A	1000		Off
VAC50N B	1001		Off
VAC50N C	1002		Off
VAC50N D	1003		Off
VAC50N E	1004		Off
VAC50N F	1005		Off

Additional sections include 'Group Members' with a search for 'AP-VP300GN Video Phone' and 'Authorized Members'.

SIP그룹 방송설정 고급기능 (스케줄방송 설정)

Smart Multimedia Manager

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			1000	User Extension	VAC50N A	2020-04-21 10:14:43
2			1001	User Extension	VAC50N B	2020-04-21 10:15:11

Status Add an Extension Paging Group

Add a Paging Group

Add Cancel Advanced Options

Specify Phone Number:

Authorization Members

Name	Extension
------	-----------

Authorized Members

Name	Extension	Display Name	Multicast
------	-----------	--------------	-----------

Advanced Options

General Settings Partition: internal Group Priority: 3 (Zero is high priority) Multicast:

Multicast Settings

Add a Schedule

Modify	Delete	Schedule Name	Start Time	Announcement File	Repeat Count	Recurrence	End Time
--------	--------	---------------	------------	-------------------	--------------	------------	----------

Description

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. Only authorized members can make a paging by dialing the paging extension.

Related Links

- User Extension
- Announcement and Tones
- Partitions

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SIP그룹 방송설정 고급기능 (스케줄방송 설정)

The screenshot displays the 'Smart Multimedia Manager' web interface. The main content area is titled 'Add a Paging Group'. A 'Reservation Schedule' dialog box is open, showing the following configuration:

- Name: Paging Group Schedule
- Start Time: 2020-04-21 00:00
- Announcement: Beep Sound 3
- Repeat Count: 1
- Retry Count: 0
- Retry Interval: 3 sec
- Recurrence: Weekly
- Weekly schedule: 1, 2, 3, 4, 5 Week
- Weekly schedule: Sun, Mon, Tue, Wed, Thu, Fri, Sat
- Monthly: Monthly, Every Month: 1 Day
- End Day: 2020-04-30

The background interface shows a table of extensions and various configuration options for the paging group, including 'General Settings', 'Multicast Settings', and 'Schedule Settings'.



Thank you!

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