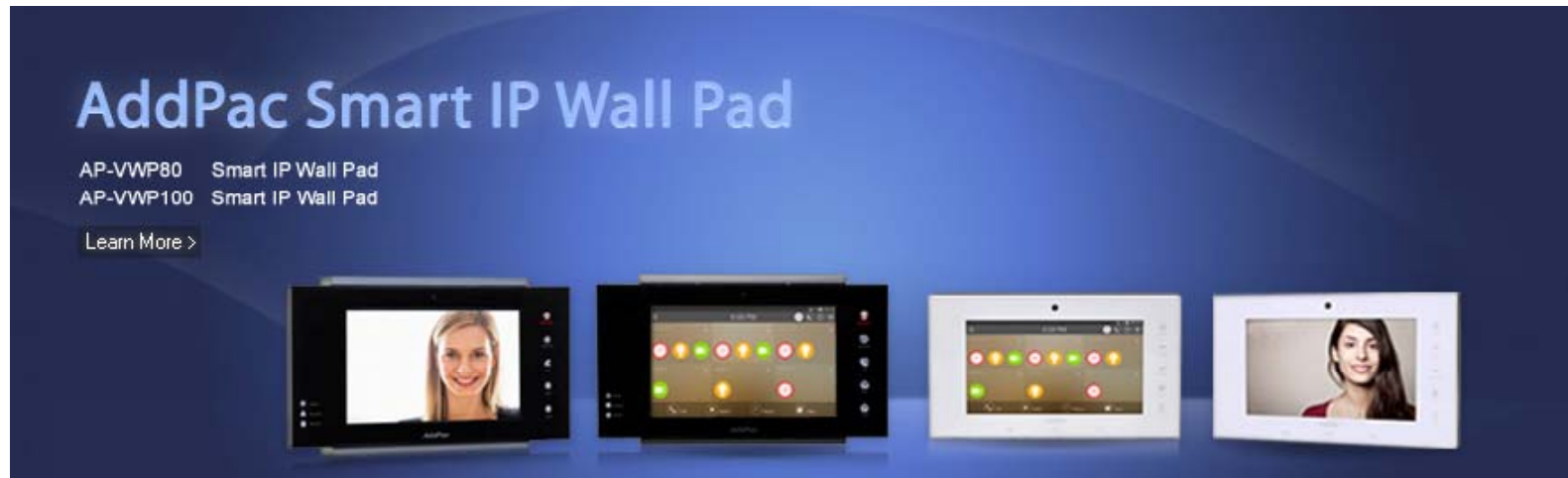


Smart IP Wall PAD Solution



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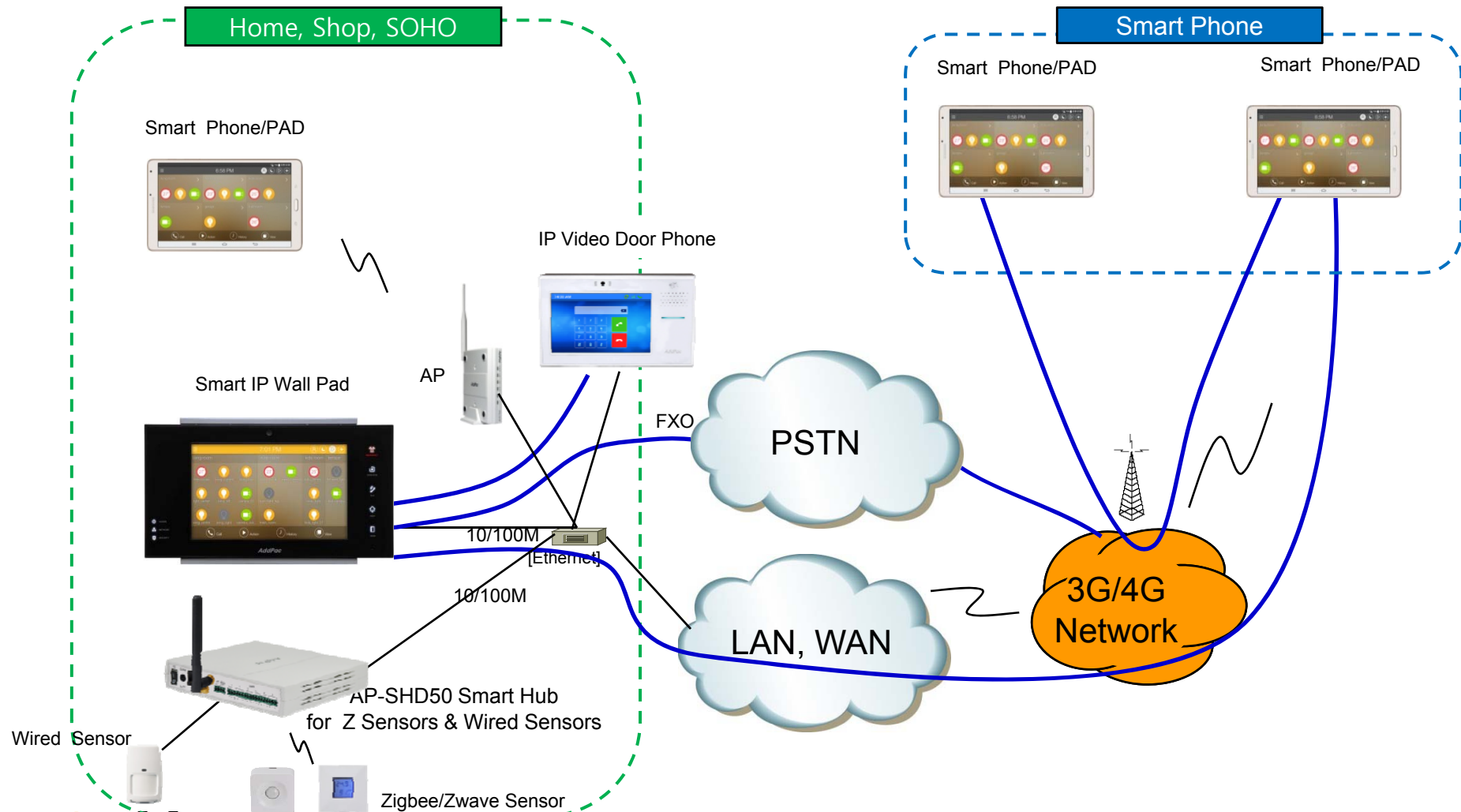
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www.addpac.com

Contents

- Smart IP Wall PAD Service Diagram
- Smart IP Wall Solution
 - AP-VWP100
 - AP-VWP80
- Smart Home Backend Products
 - IP Door Access Control Servers
 - IP Video Door Phones
 - IP Video Phones for Security Guard
 - Smart Hubs for Sensor Devices
 - Smart Tab/Phone Application Software

Smart IP Wall PAD Service Diagram





Smart IP Wall PAD

Smart IP Wall PAD Comparison Table

Model	AP-VWP100	AP-VWP80
Service Features		
Duplex (Voice)	Full Duplex	Full Duplex
LCD	7 Inch	7 Inch
Touch Screen	Support	Support
Camera(Optional)	SD(VGA)	SD(VGA)
Video Codec	SD, H.264/MPEG4/H.263	SD, H.264/MPEG4/H.263
Voice Codec	G.722, G.711, G.726	G.722, G.711, G.726
Signaling	H.323/SIP	H.323/SIP
MIC & Speaker Phone	Support	Support
LAN Port	1	1
Camera(Optional)	SD(VGA)	SD(VGA)
Analog Door Phone Interface (option)	SD	SD
PSTN Line (Option)	Support	Support
PoE(Optional)	Support	Support



AP-VWP100 Smart IP Wall PAD

Product Overview

AP-VWP100 IP Video Wall PAD

- High Performance IP Video Wall PAD Solution
- TFT Color LCD, Touch Screen, Touch Sensor, Internal MIC & Speaker
- High Quality “7 Inch LCD, VGA(640x480) Video Resolution
- SIP VoIP Signaling Stack Embedded (Optional H.323)
- High-performance Video/Voice Codec Support
 - H.264/MPEG4/H.263, G.711, etc
- One(1) 10/100Mbps Fast Ethernet
- High Quality Speaker Phone Features
- PSTN with CID Interface Support (Option)
- Power Acoustic Echo Canceller (Option)
- PoE(Power over Ethernet) or Internal SMPS Power Support (Option)
- Video Camera Sensor (Option)
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Advanced Voice QoS Mechanism

Hardware Specification

AP-VWP100 IP Video Wall PAD

RISC
CPU

High-end
DSP

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
- Video Camera Interface (Option)
- TFT Color LCD Interface with Touch Screen
 - 7 Inch LCD, 640 x 480, D1 Video Resolution
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- PSTN Interface with CID (Caller ID Detection)
- Powerful Acoustic Echo Canceller (Option)
 - Half Duplex (Default)
 - Full Duplex, Powerful Acoustic Echo Canceller (Option)
- Wall Mount
- Power Supply
 - Power over Ethernet (Option)
 - Internal SMPS Power (Default)

Hardware Specification

AP-VWP100 IP Video Wall PAD

RISC
CPU

High-end
DSP

- **Acoustic Echo Canceller (Option)**
 - Full-duplex operation during double-talk situations
 - One channel AEC, one channel LEC up to 256ms shared
 - Cancels echoes with up to 10dB echo return
 - Advanced noise reduction(up to 20dB)
- **Speaker**
 - Impedance : 8 +/-15%ohm at 1kHz, 1.0 Vrms
 - Sound Pressure : 90 +/- 3dB at 0.1W/10 CM
at 800Hz, 1.0kHz, 1.2kHz, 1.5kHz
 - Resonance Level : 550Hz +/- 20%Hz at Fo Hz, 1.0Vrms
 - Frequency Range : Fo Hz ~20kHz
 - Input Power : Normal : 1.0 W, Max : 2.0W
- **Audio Amplifier**
 - 1-W BTL Output(5V, 0.11 % THD+N)
 - Uncompensated Gains of 2 to 20 (BTL Mode)
 - Thermal and Shot-circuit Protection
 - High Supply Ripple Rejection Ratio
- **PoE(Power over Ethernet), Option**
 - IEEE802.3af compliant
 - Input voltage range 36V to 57V
 - Short-circuit Protection

Hardware Specification

AP-VWP100 IP Video Wall PAD

RISC
CPU

High-end
DSP

- **LCD Controller**
 - One-Chip Solution for amorphous TFT-LCD
 - Support resolution up to 480xRGBx640
 - Built-in 172800 bytes internal RAM
 - 6,8,16, and 18-bit RGB Interface
 - Resize Function (x ½, x ¼)
 - On-Chip Power Management System
- **Video Camera (Option)**
 - High Sensitivity for low-light operation
 - Output support for Raw RGB, RGB, and YCrCb format
 - Image Size : VGA, QVGA, and any size scaling down from CIF to 40x30
 - Support AEC, AGC,AWB, ABF, ABLC
 - Saturation Level, Edge Enhancement Level, De-noise level Auto adjust

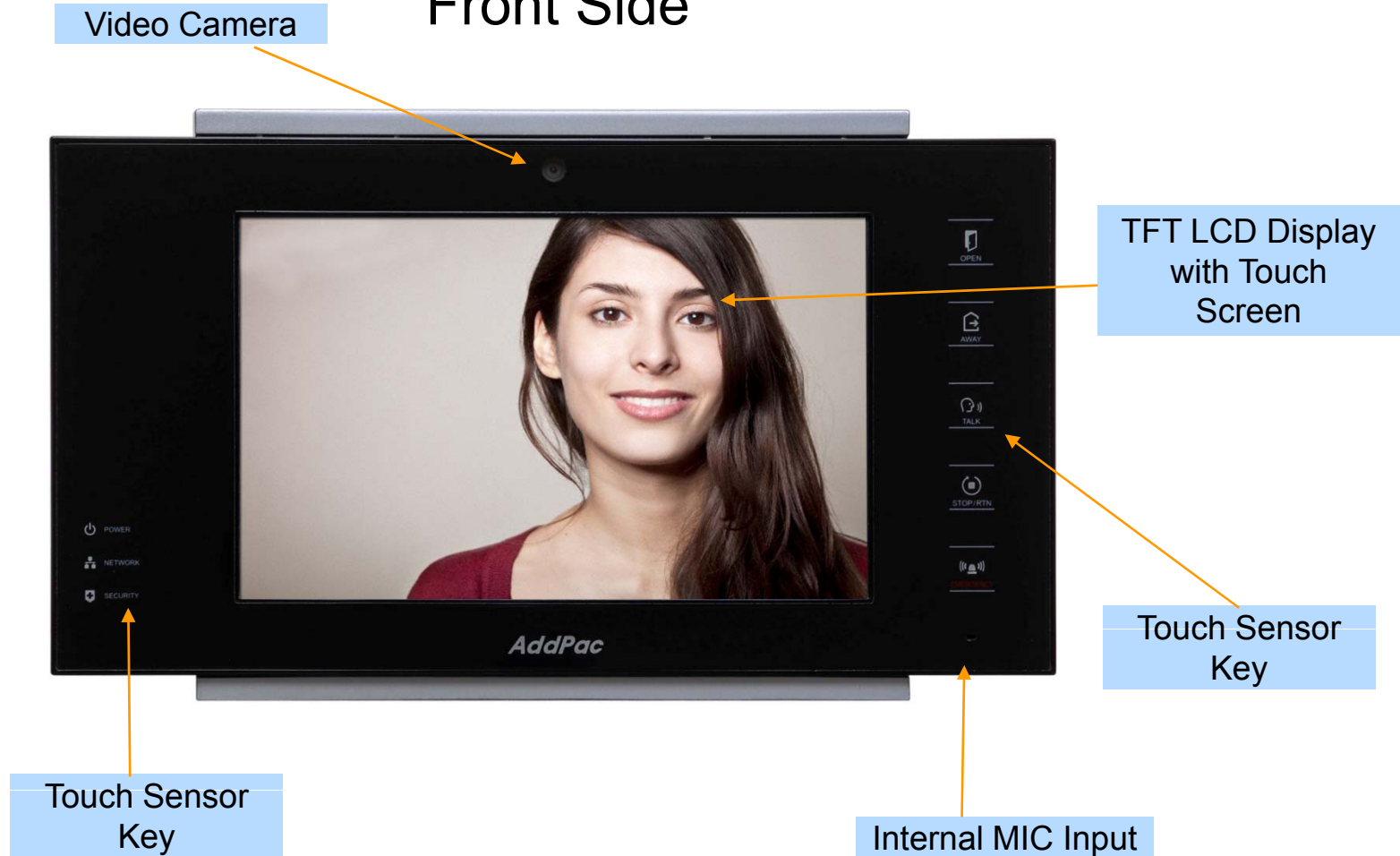
Hardware Specification

AP-VWP100 IP Video Wall PAD

RISC
CPU

High-end
DSP

Front Side



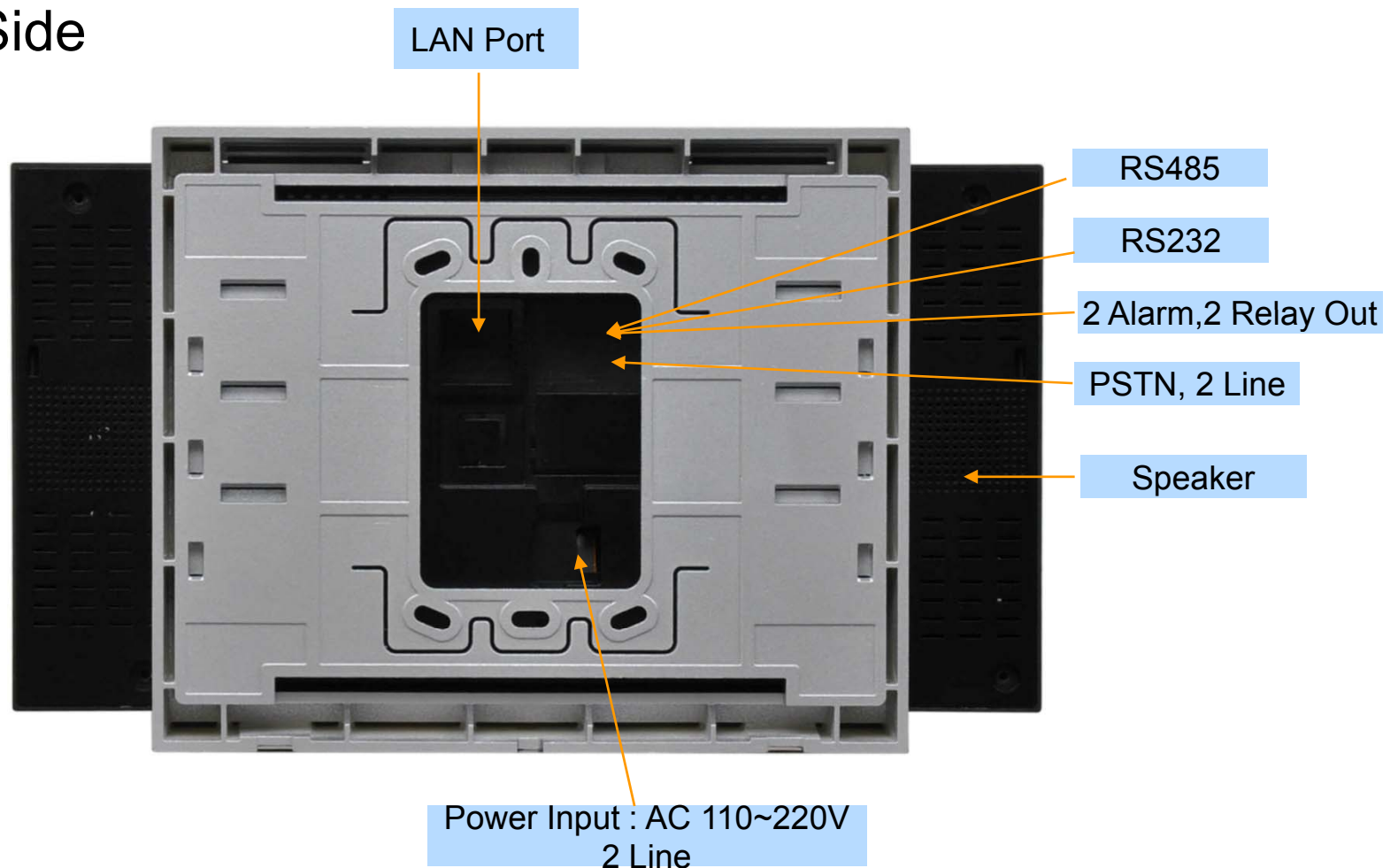
Hardware Specification

AP-VWP100 IP Video Wall PAD

RISC
CPU

High-end
DSP

Back Side





AP-VWP80 Smart IP Wall PAD

Product Overview

AP-VWP80 IP Video Wall PAD

- High Performance IP Video Wall PAD Solution
- TFT Color LCD, Touch Screen, Touch Sensor, Internal MIC & Speaker
- High Quality “7 Inch LCD, VGA(640x480) Video Resolution
- SIP VoIP Signaling Stack Embedded (Optional H.323)
- High-performance Video/Voice Codec Support
 - H.264/MPEG4/H.263, G.711, etc
- One(1) 10/100Mbps Fast Ethernet
- High Quality Speaker Phone Features
- PSTN with CID Interface Support (Option)
- Power Acoustic Echo Canceller (Option)
- PoE(Power over Ethernet) or Internal SMPS Power Support (Option)
- Video Camera Sensor (Option)
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Interworking with Smart Hub for Sensor Devices
- Firmware Upgradeable Architecture
- Advanced Voice QoS Mechanism

Hardware Specification

AP-VWP80 IP Video Wall PAD

RISC
CPU

High-end
DSP

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
- Video Camera Interface (Option)
- TFT Color LCD Interface with Touch Screen
 - 7 Inch LCD, 640 x 480, D1 Video Resolution
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- PSTN Interface with CID (Caller ID Detection)
- Powerful Acoustic Echo Canceller (Option)
 - Half Duplex (Default)
 - Full Duplex, Powerful Acoustic Echo Canceller (Option)
- Wall Mount
- Power Supply
 - Power over Ethernet (Option)
 - Internal SMPS Power (Default)

Hardware Specification

AP-VWP80 IP Video Wall PAD

RISC
CPU

High-end
DSP

- **Acoustic Echo Canceller (Option)**
 - Full-duplex operation during double-talk situations
 - One channel AEC, one channel LEC up to 256ms shared
 - Cancels echoes with up to 10dB echo return
 - Advanced noise reduction(up to 20dB)
- **Speaker**
 - Impedance : 8 +/-15%ohm at 1kHz, 1.0 Vrms
 - Sound Pressure : 90 +/- 3dB at 0.1W/10 CM
at 800Hz, 1.0kHz, 1.2kHz, 1.5kHz
 - Resonance Level : 550Hz +/- 20%Hz at Fo Hz, 1.0Vrms
 - Frequency Range : Fo Hz ~20kHz
 - Input Power : Normal : 1.0 W, Max : 2.0W
- **Audio Amplifier**
 - 1-W BTL Output(5V, 0.11 % THD+N)
 - Uncompensated Gains of 2 to 20 (BTL Mode)
 - Thermal and Shot-circuit Protection
 - High Supply Ripple Rejection Ratio
- **PoE(Power over Ethernet), Option**
 - IEEE802.3af compliant
 - Input voltage range 36V to 57V
 - Short-circuit Protection

Hardware Specification

AP-VWP80 IP Video Wall PAD

RISC
CPU

High-end
DSP

- **LCD Controller**
 - One-Chip Solution for amorphous TFT-LCD
 - Support resolution up to 480xRGBx640
 - Built-in 172800 bytes internal RAM
 - 6,8,16, and 18-bit RGB Interface
 - Resize Function (x ½, x ¼)
 - On-Chip Power Management System
- **Video Camera (Option)**
 - High Sensitivity for low-light operation
 - Output support for Raw RGB, RGB, and YCrCb format
 - Image Size : VGA, QVGA, and any size scaling down from CIF to 40x30
 - Support AEC, AGC,AWB, ABF, ABLC
 - Saturation Level, Edge Enhancement Level, De-noise level Auto adjust

Hardware Specification

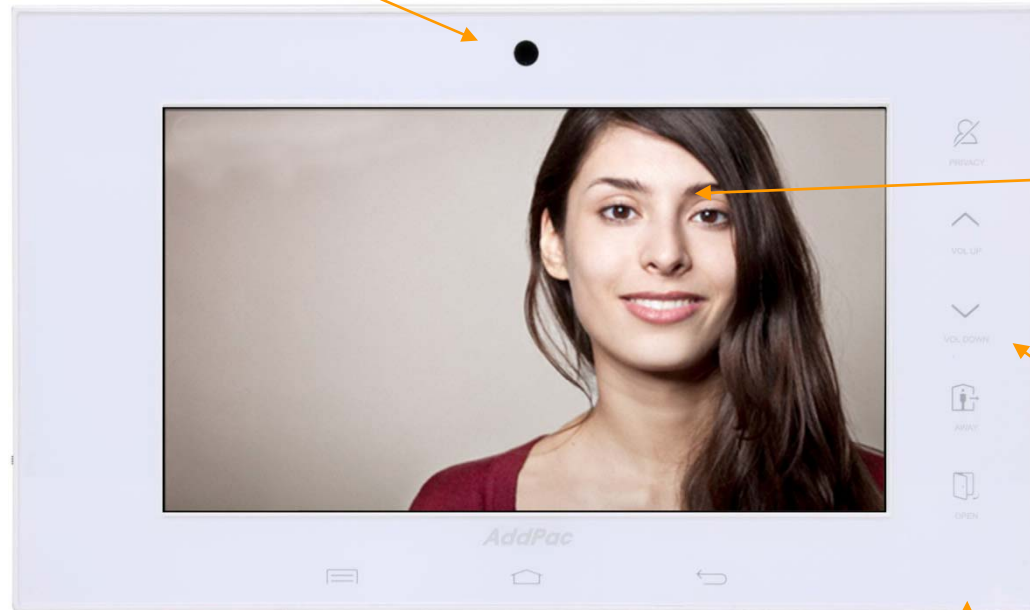
AP-VWP80 IP Video Wall PAD

RISC
CPU

High-end
DSP

Front Side

Video Camera



TFT LCD Display
with Touch
Screen

Touch Sensor
Key

Internal MIC Input

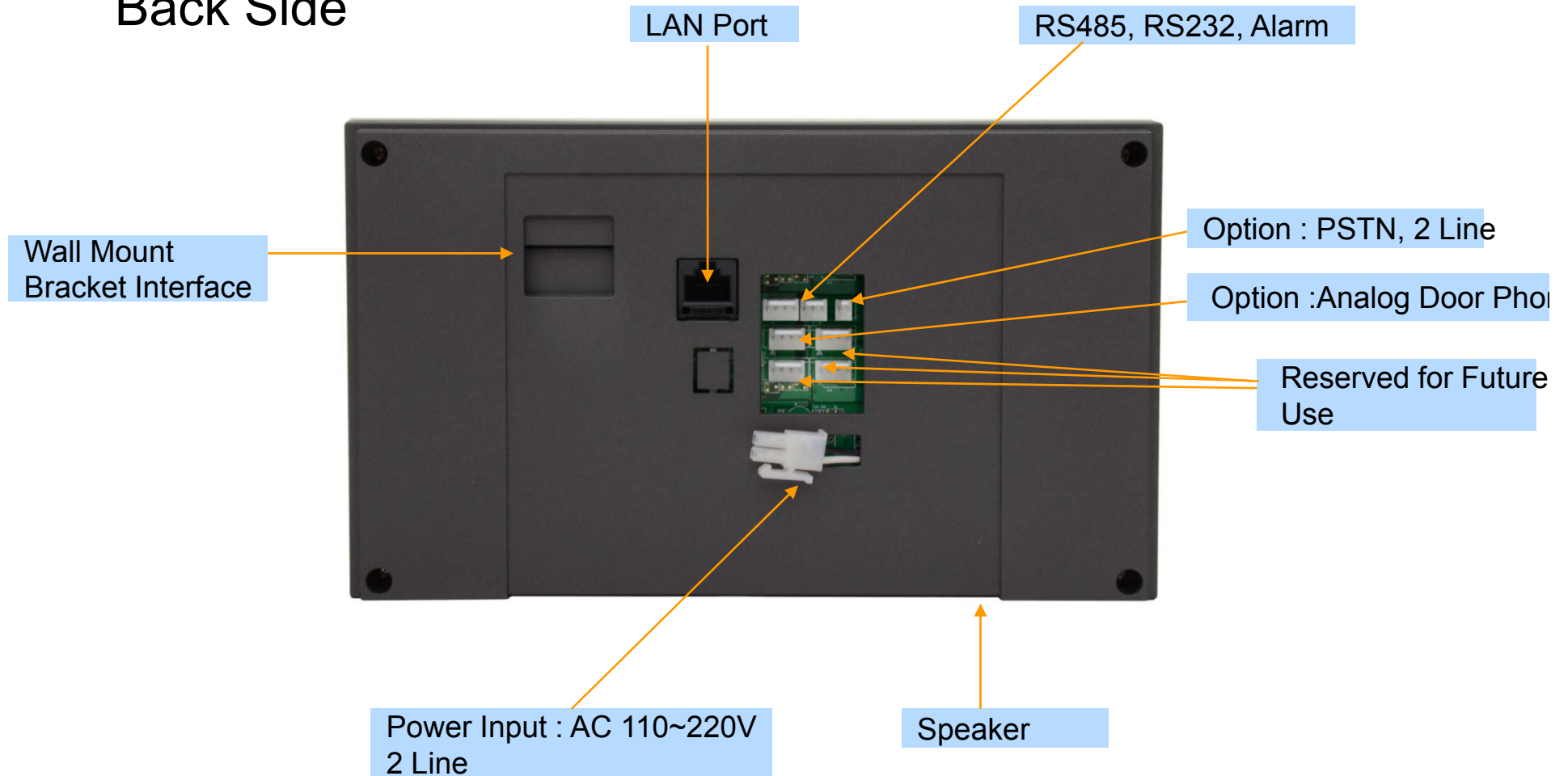
Hardware Specification

AP-VWP80 IP Video Wall PAD

RISC
CPU

High-end
DSP






Back Side





Smart Home Backend Products



Smart Home Backend Product Table

Smart Home Products	Description	Model
	Smart Wall PAD	AP-VWP100, AP-VWP80
	IP Video Door Phones	AP-VAC20, AP-VAC50, AP-VAC80, AP-VAC150
	IP Video Phone (Bidirectional two-way video)	AP-VP280, AP-VP120, etc
	Smart Hub for Zigbee/Zwave Sensors	AP-SH50, AP-SAH50, AP-SHD50
	Smart Phone and Tab/Pad Appl.	



IP Door Access Control Servers

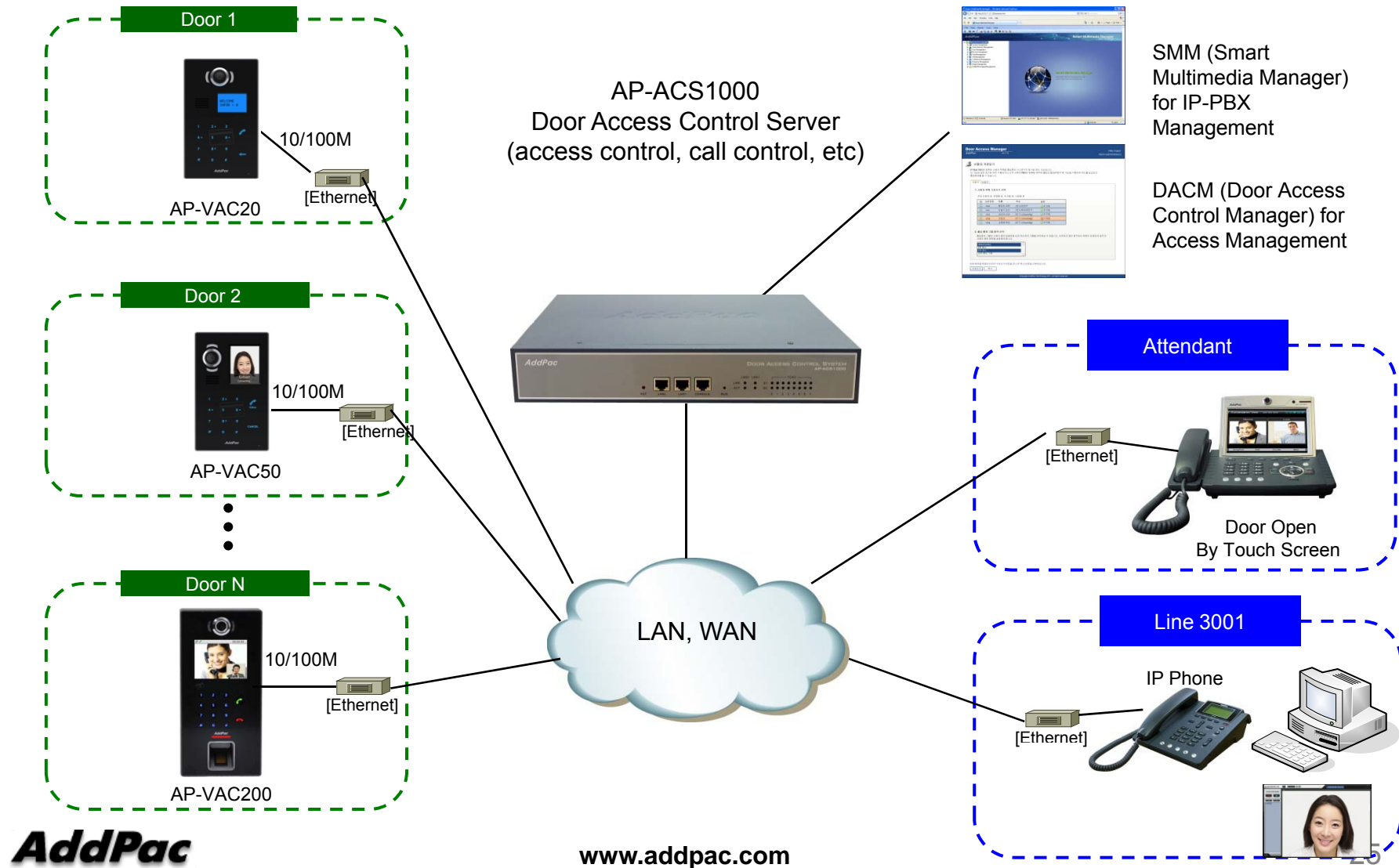
Door Access Control Server Comparison Table

Model		AP-ACS1000	AP-ACS500
Service Features			
Registration User Number		100	30
Concurrent Call User Number		30	15
IPv4/IPv6 Dual Stack Support		Support	Support
VoIP Signaling	Internal	SIP	SIP
	External	H.323/SIP	H.323/SIP
Powerful IVR, UMS, Media Service, User Presence Service		Support	Support
RTP Proxy Service (IPv6, Private IP)		Support	Support
LAN Port		2	2
VoIP Module Slots for PSTN		2 Slots (8 Port Module)	N/A
VoIP Interface		FXS,FXO,E1/T1	Option
Video Door Phone Control (RF card, etc)		Support	Support
Time & Attendance Management		Support(option)	Support (Option)

Contents

- DACS(Door Access Control Server) Network Diagram
- AP-ACS1000 Main Features & Hardware Specification
- AP-ACS500 Main Features & Hardware Specification
- DACS System Message Flow (Examples)
- DACM (Door Access Control Manager)
- Open API for Third Party Controller

Integrated Door Access Control and Call Control





AP-ACS1000 Door Access Control Server

Main Features

AP-ACS1000 DACS (Door Access Control System)

- 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

Main Features

AP-ACS1000 DACS (Door Access Control System)

- 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

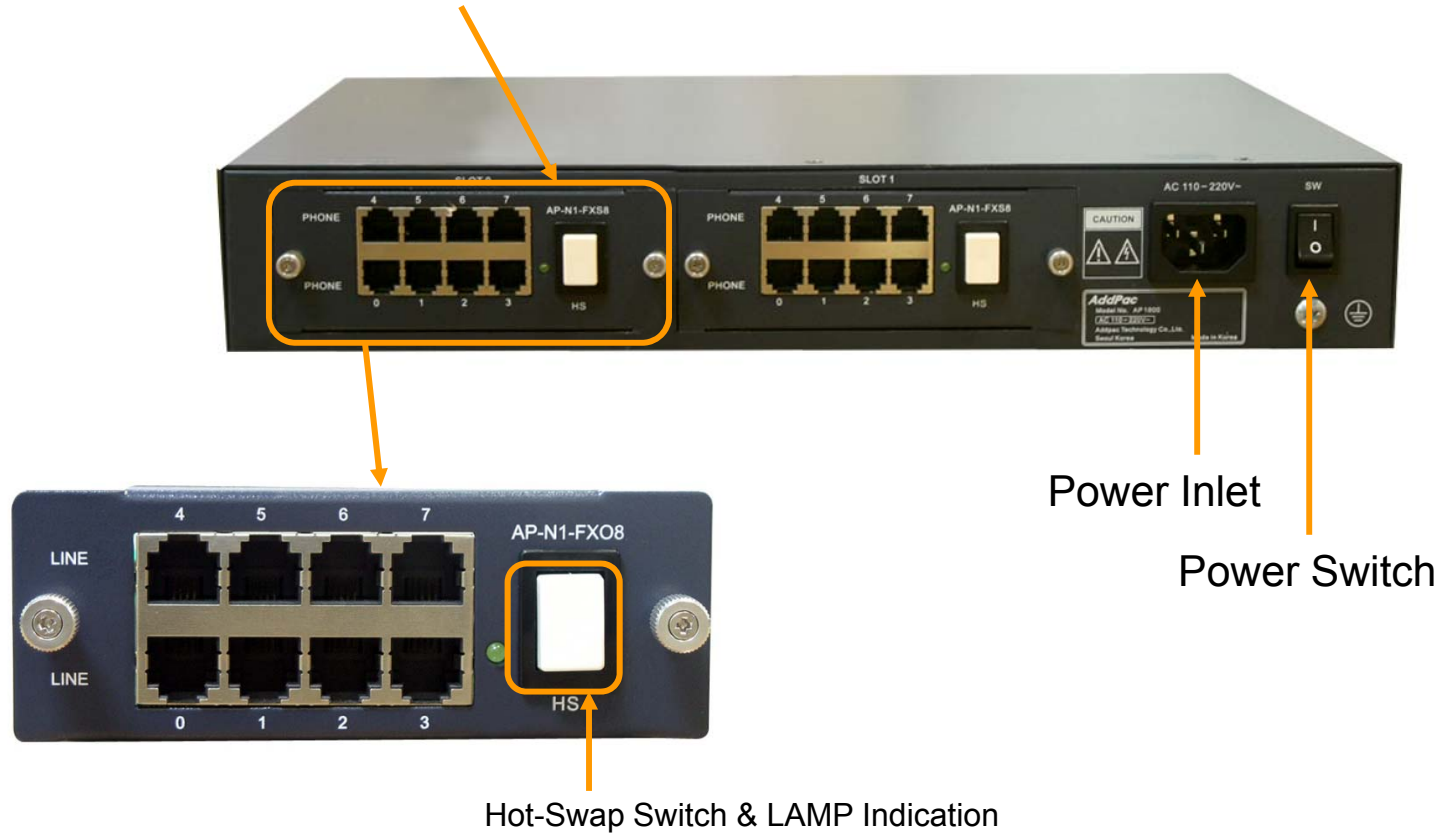


Hardware Specification

AP-ACS1000 DACS (Door Access Control System)

AP-ACS1000 Back Side



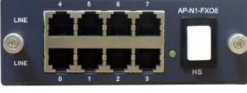

PSTN Interface Module



Hardware Specification

AP-ACS1000 DACS (Door Access Control System)

PSTN Interface Module

AP-N1-FXS8	 A black 8-port FXS voice processing module with RJ11 ports labeled 0-7 and a central switch labeled AP-N1-FXS8.	8-Port FXS Voice Processing Module (8 x RJ11)
AP-N1-FXO8	 A black 8-port FXO voice processing module with RJ11 ports labeled 0-7 and a central switch labeled AP-N1-FXO8.	8-Port FXO Voice Processing Module (8 x RJ11)
AP-N1-FXO4S4	 A black 8-port voice processing module with RJ11 ports labeled 0-7 and a central switch labeled AP-N1-FXO8.	4-Port FXO and 4-Port FXS Voice Processing Module (8 x RJ11)
AP-N1-E1T1	 A black 1-port VoIP digital E1/T1 interface module with a green PCB, a RJ45 port labeled PORT, and a central switch labeled AP-N1-E1T1.	1-Port VoIP Digital E1/T1 Interface Module(1xRJ45)



AP-ACS500 Door Access Control Server

Main Features

AP-ACS500 DACS (Door Access Control System)

- 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
- Power Switch for Stability and Status LEDs



Hardware Specification

AP-ACS500 DACS (Door Access Control System)

- RISC Microprocessor Computing Power + High End Programmable DSP
- VoIP Gateway Interface
 - Model A: Basic Configuration
 - Model B: Two(2) FXO Port
 - Model C: Four(4) FXO Port
 - Model D: Two(2) FXS + Two(2) FXO Port
- Network Interface
 - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- USB Interface
 - One(1) USB Host Mode Interface for USB Memory and Wireless LAN
- Power Supply
 - External Power Adaptor
- Power On/Off Switch
- Power LED, LAN LEDs, FXO Port LEDs

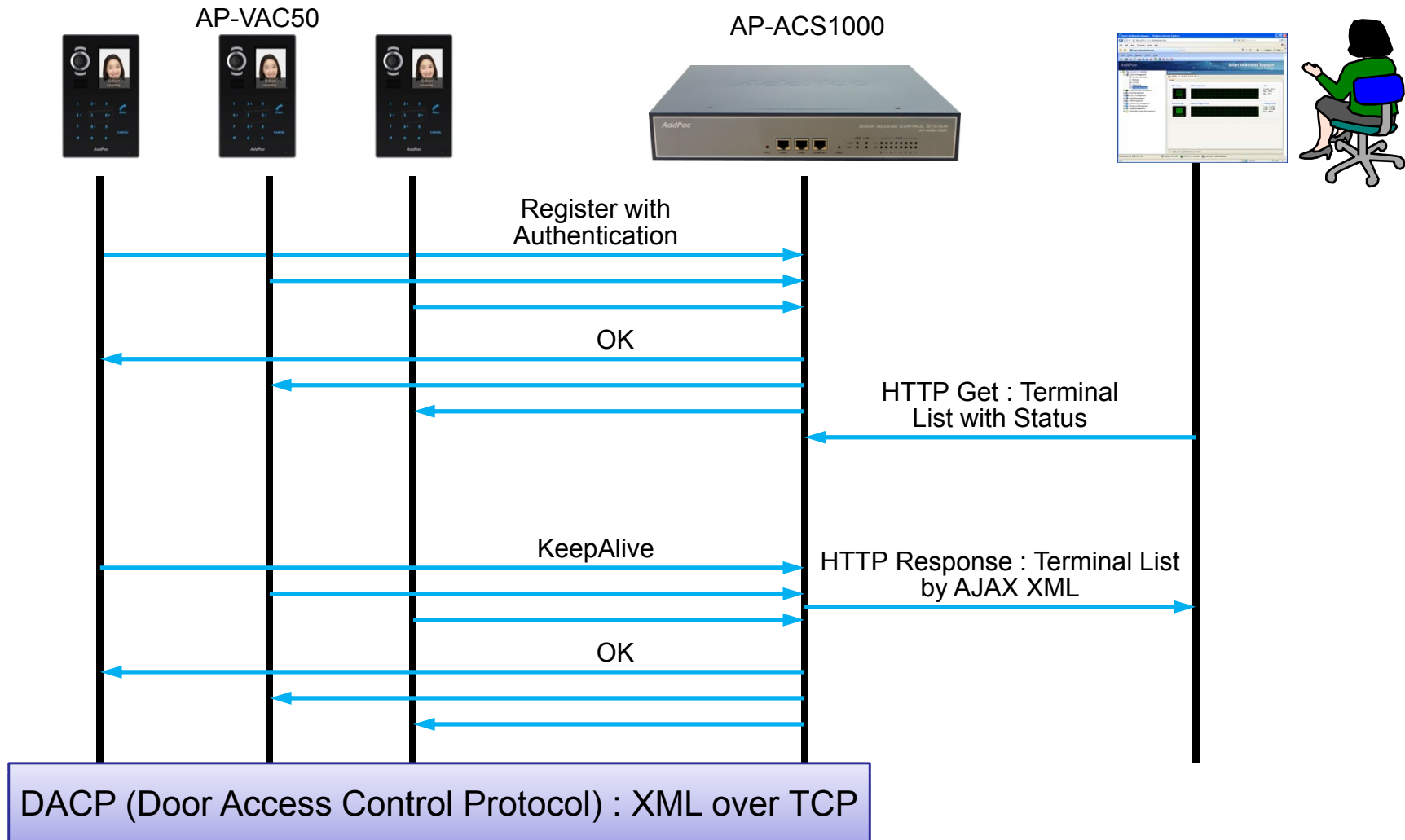




DACS System Message Flow

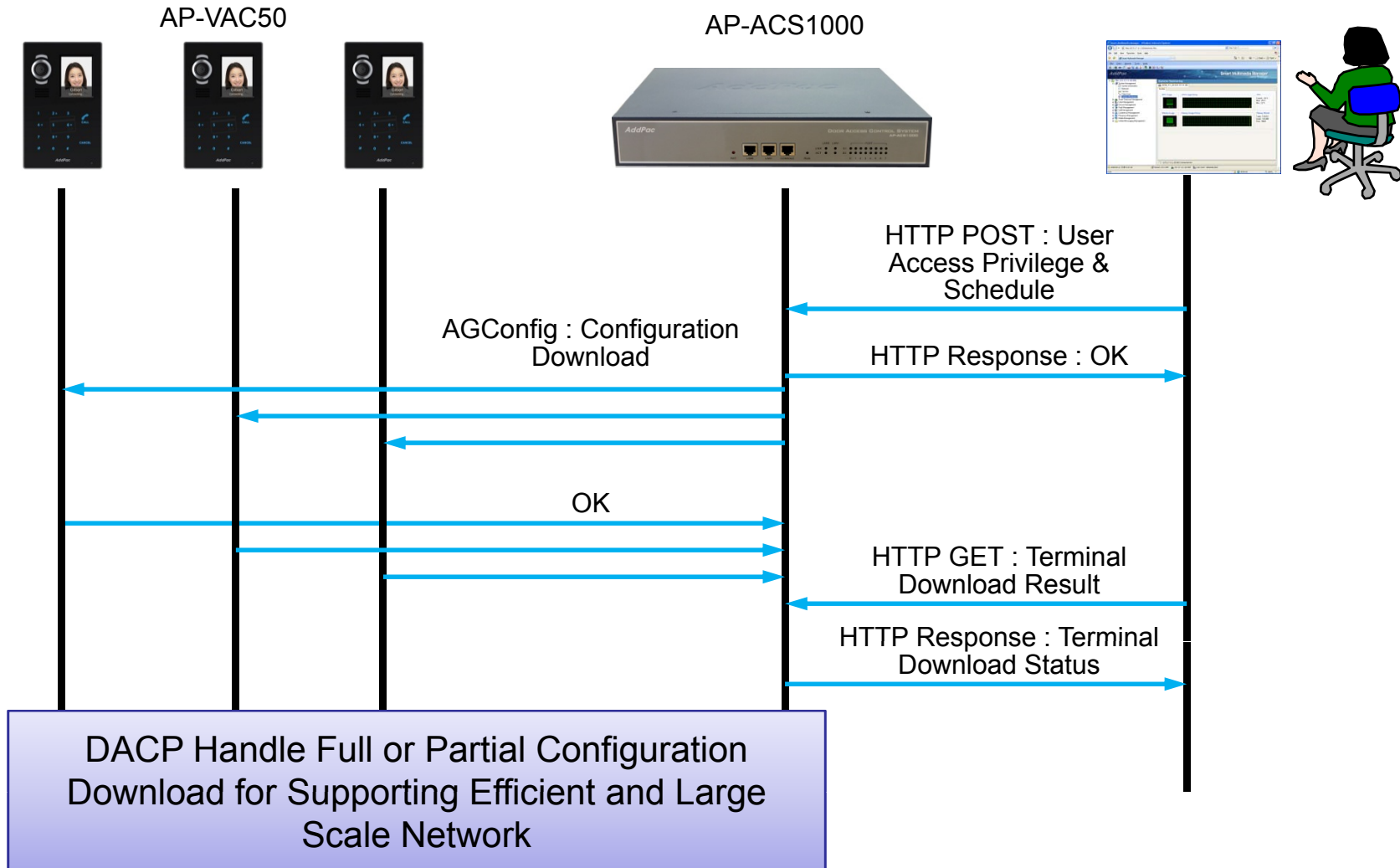
DACS System Message Flow

Registration and KeepAlive



DACS System Message Flow

Access Privilege and Schedule Download



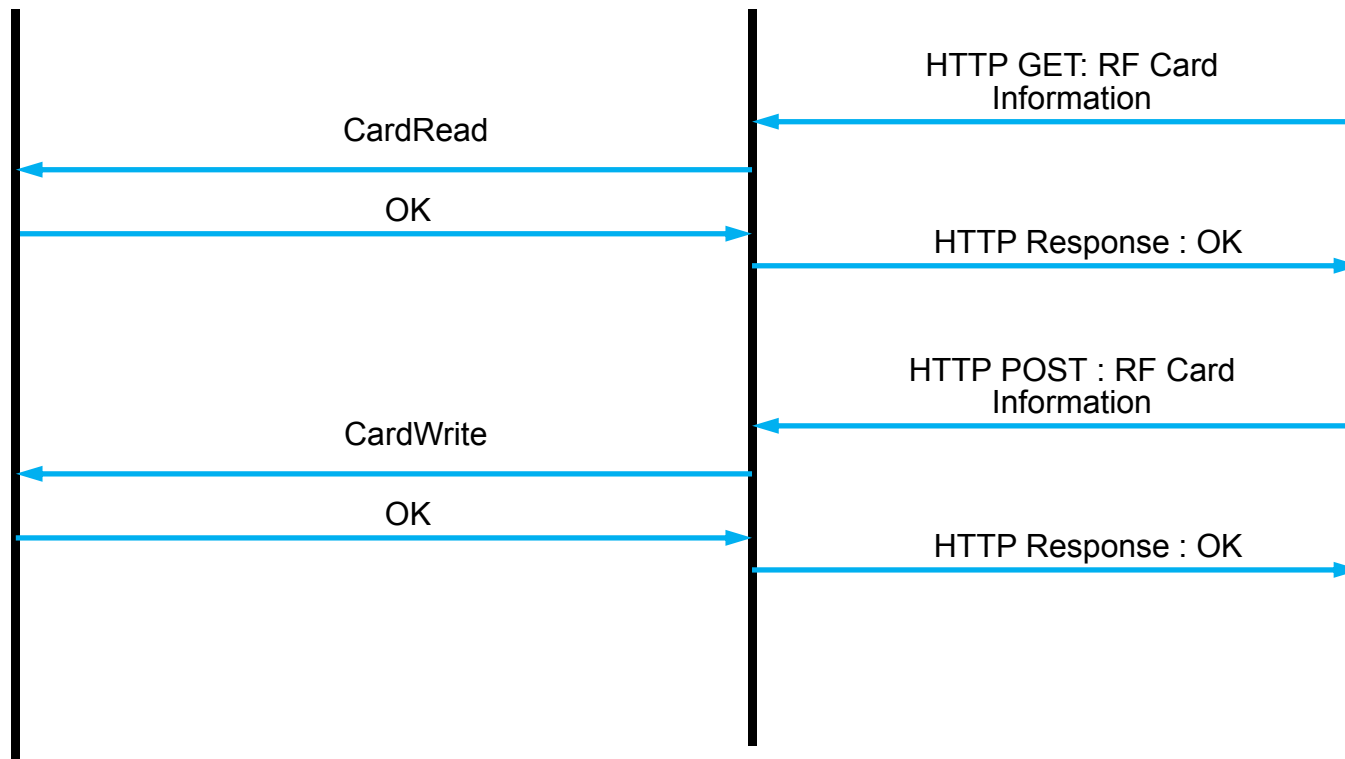
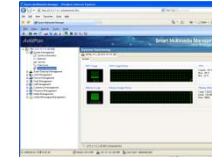
DACS System Message Flow

RF Card Read/Write and Registration

AP-VAC50

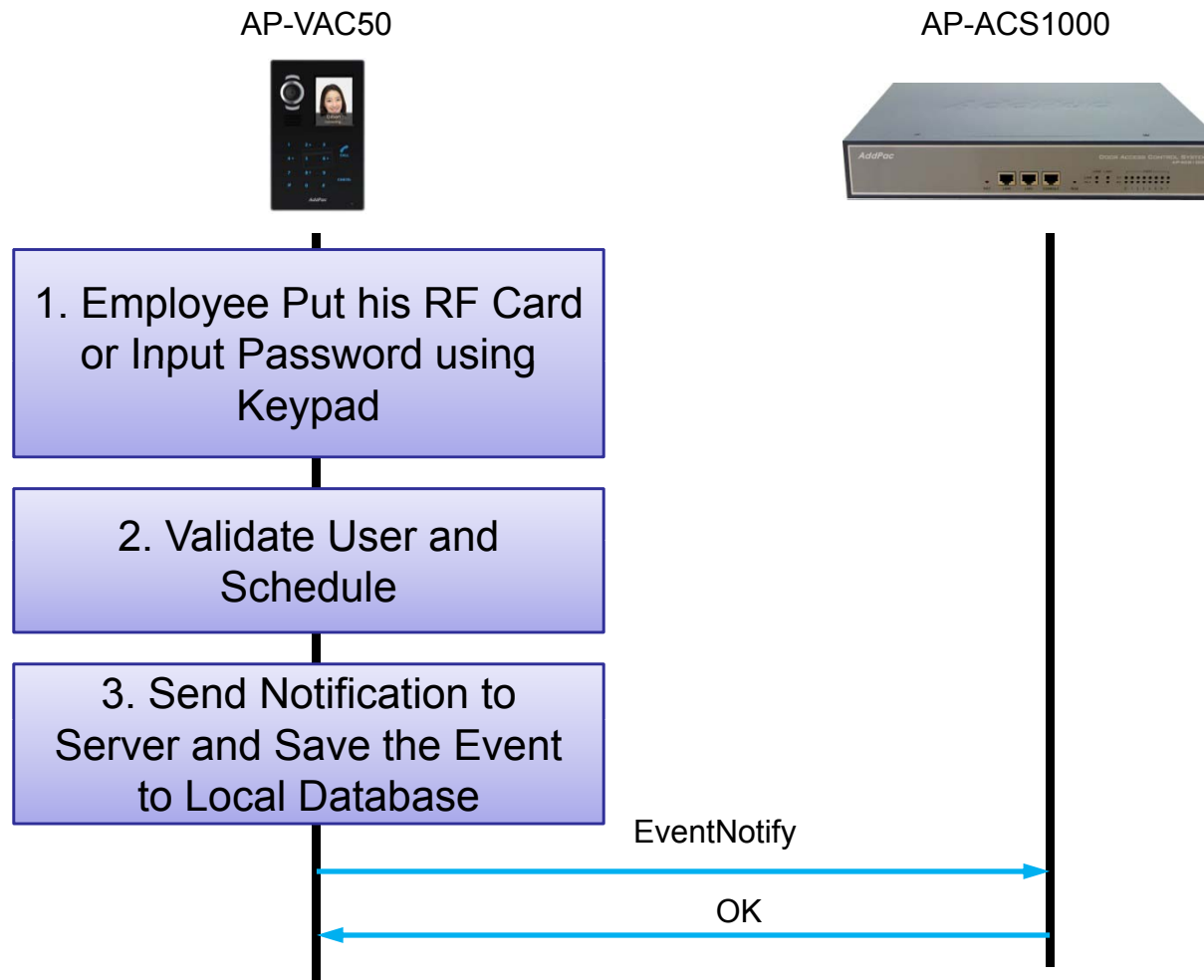


AP-ACS1000



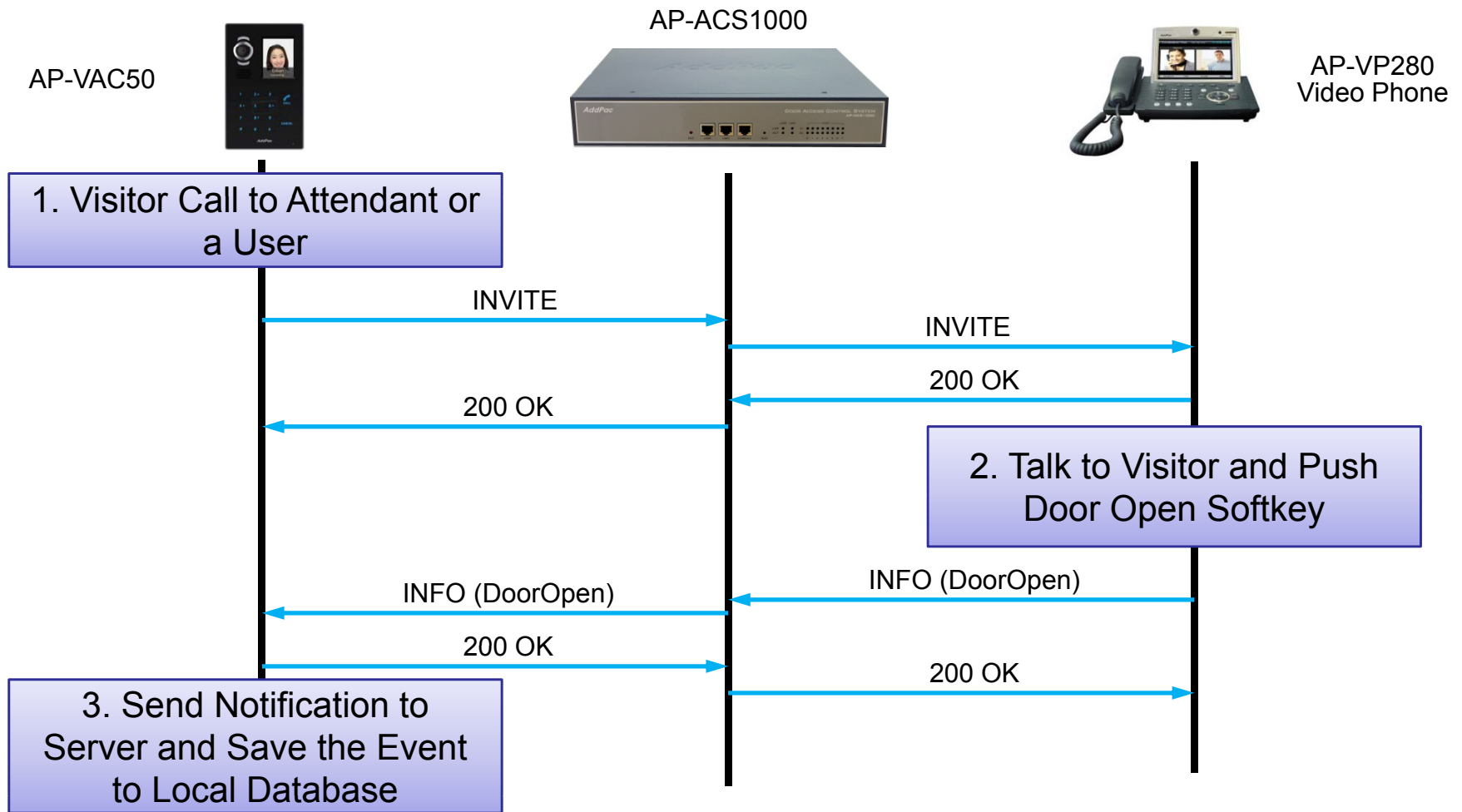
DACS System Message Flow


Door Open by RF Card or Password



DACS System Message Flow

Door Open by Other Terminal

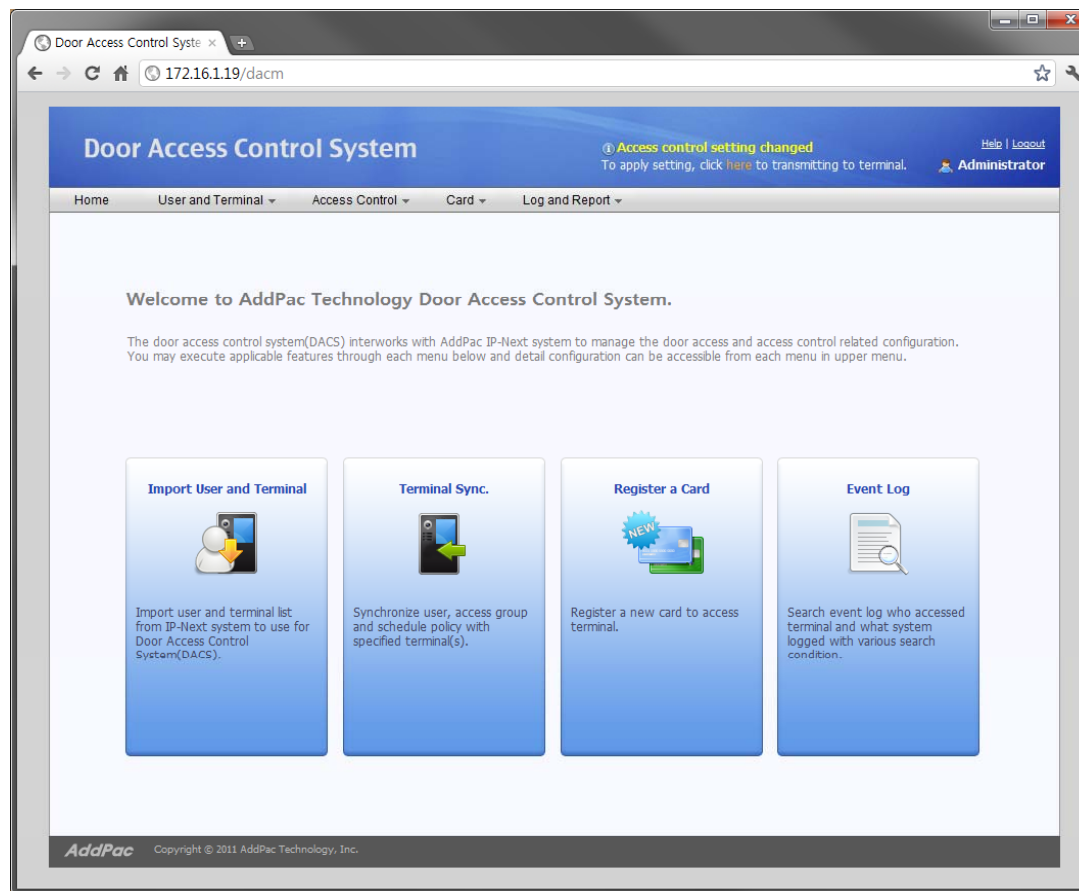




Door Access Control Manager

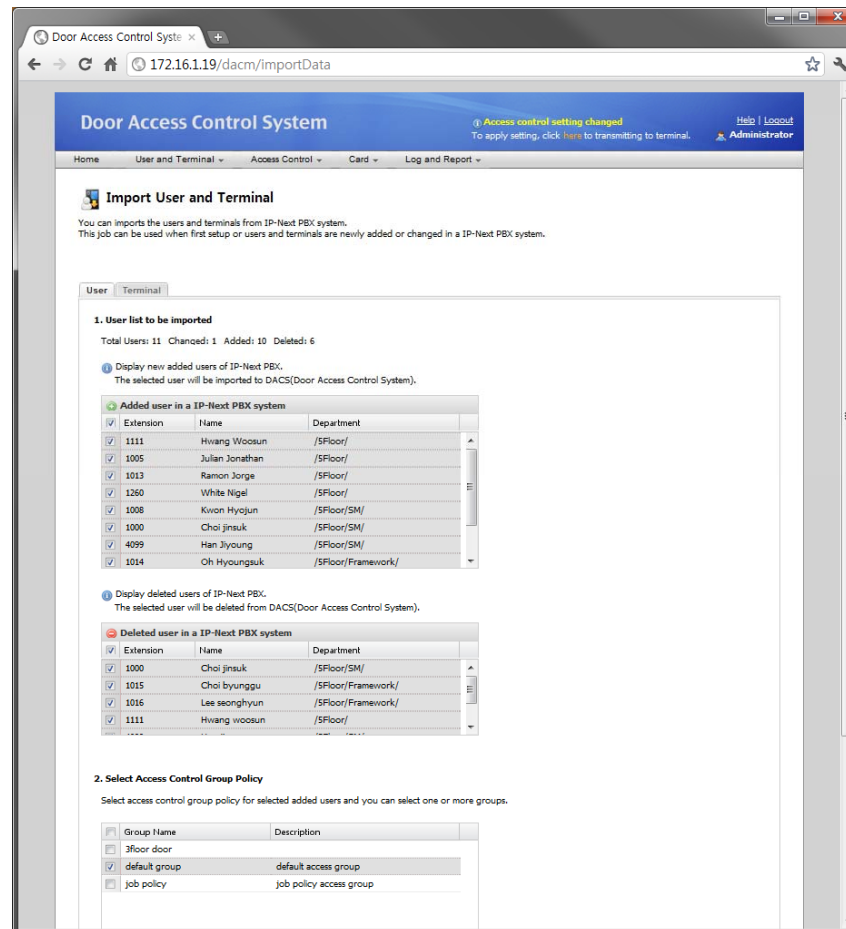
DACM (Door Access Control Manager)

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)

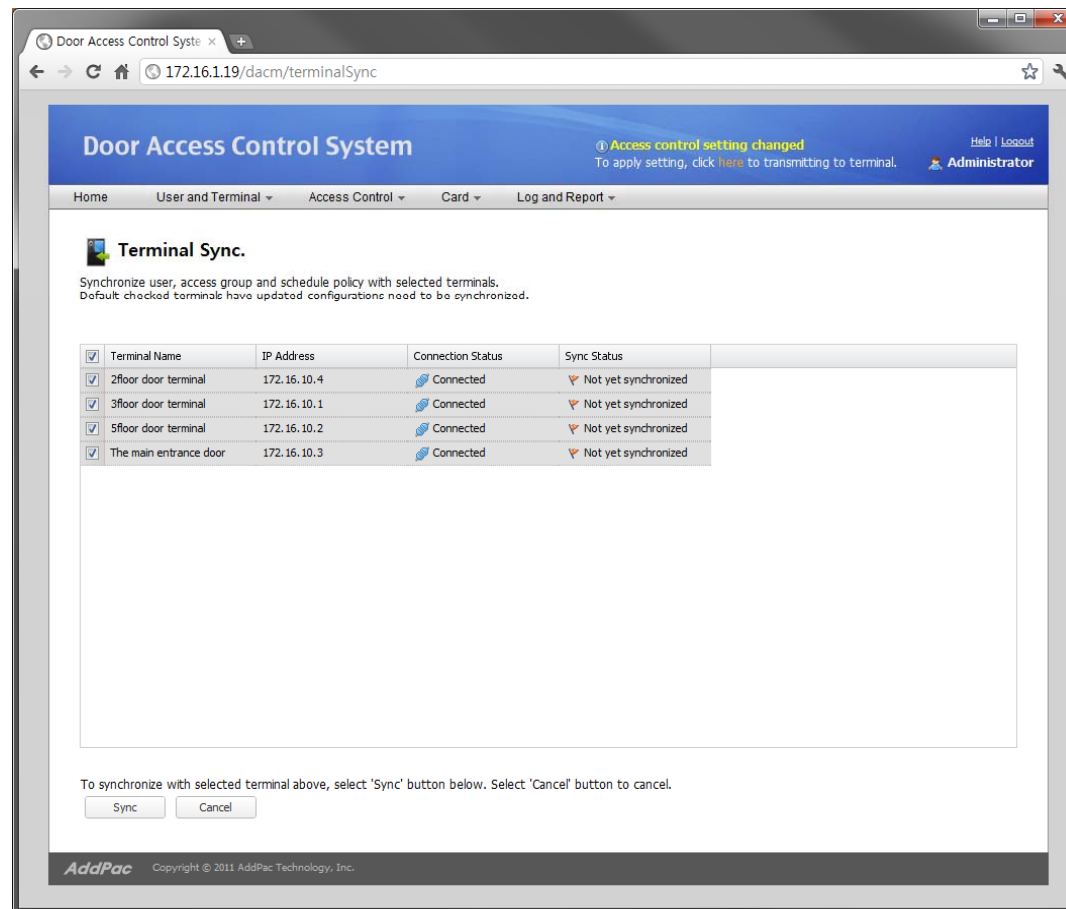
Access Control Group Management

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: 'Copyright © 2011 AddPac Technology, Inc.'

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.

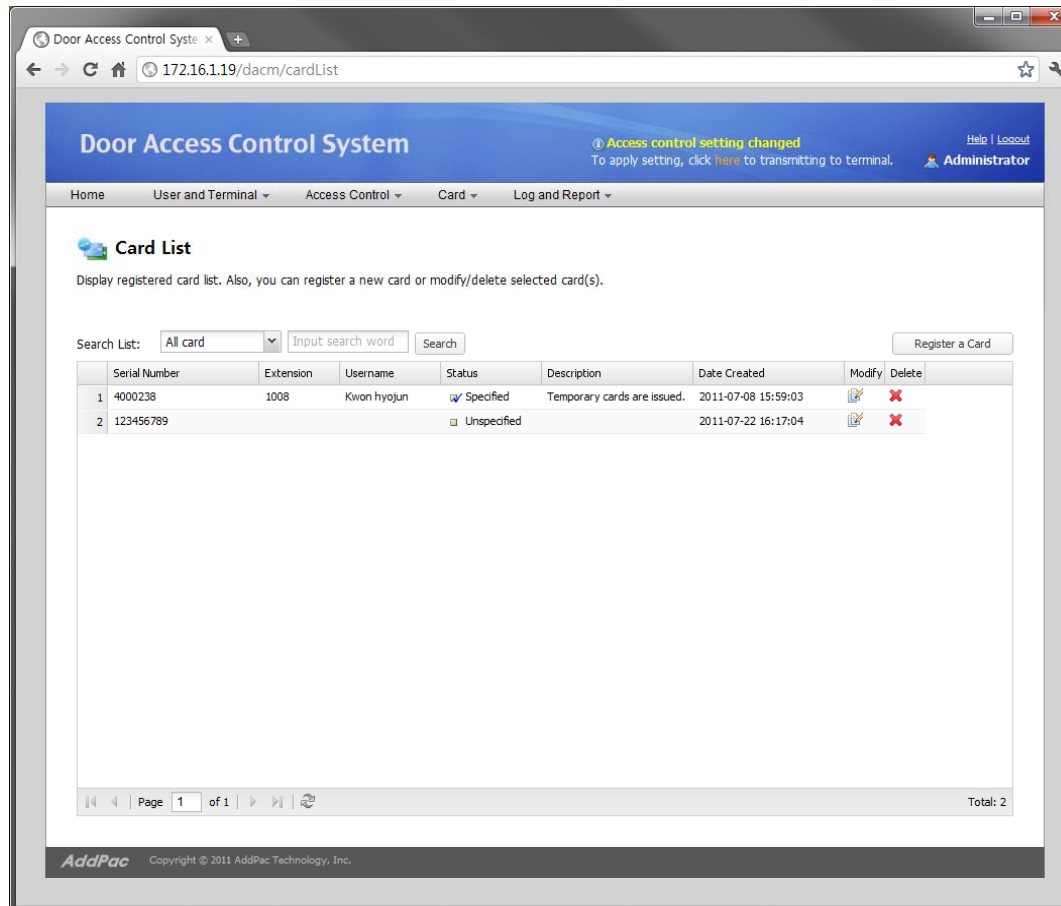
<input checked="" type="checkbox"/>	Terminal Name	IP Address	Connection Status	Sync Status
<input checked="" type="checkbox"/>	2floor door terminal	172.16.10.4	Connected	Not yet synchronized
<input checked="" type="checkbox"/>	3floor door terminal	172.16.10.1	Connected	Not yet synchronized
<input checked="" 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' with a link to 'To apply setting, click here to transmitting to terminal.' and a user profile for 'Administrator'. The navigation menu includes 'Home', 'User and Terminal', 'Access Control', 'Card', and 'Log and Report'. The main content area is titled 'Card List' and includes a search filter set to 'All card' and a 'Register a Card' button. A table lists two cards with columns for Serial Number, Extension, Username, Status, Description, Date Created, Modify, and Delete.

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		

Page 1 of 1 Total: 2

AddPac Copyright © 2011 AddPac Technology, Inc.

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 user is logged in as 'Administrator'. A notification banner at the top right states 'Access control setting changed' with a link to 'Apply setting, click here to transmitting to terminal.' The main content area is titled 'Event Log' and includes a search filter section with fields for 'Duration' (11-07-10 to 11-08-09), 'User Extension Number', and 'Event Level' (set to 'Error'). Below the search filters 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 bar showing 'Page 1 of 1' and a 'Total: 7' count. The footer includes the 'AddPac' logo and 'Copyright © 2011 AddPac Technology, Inc.'

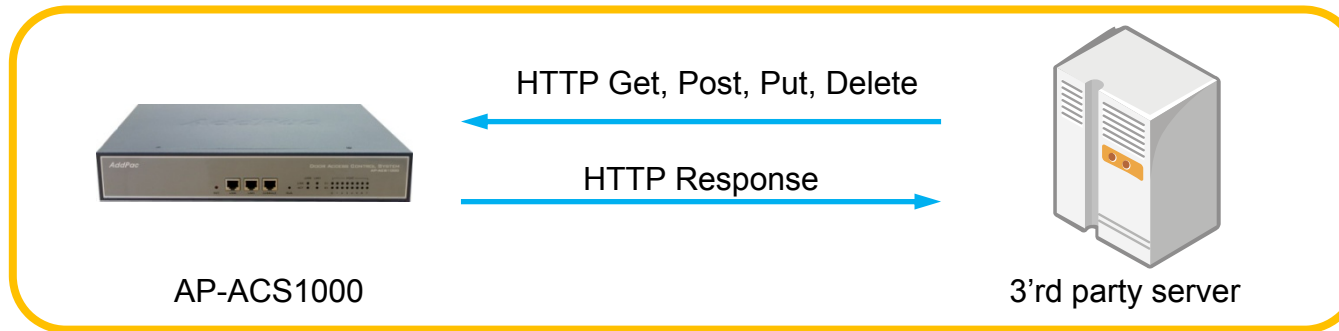
	Time	Level	User Extension	Event
1	2011-07-15 10:27:27	Warning	1000	authentication failure
2	2011-07-15 11:25:27	Notice	1000	registration success
3	2011-07-15 12:21:27	Notice	1200	registration success
4	2011-07-16 09:27:27	Information	1201	door opened
5	2011-07-16 11:27:27	Information	1007	registration 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) ,...



IP Video Phones for Security Gurad

IP Video Phones for AddPac IP Video Door Phone

	AP-VP300N	AP-VP280	AP-VP230	AP-VP150	AP-VP120
					
LCD Size	7Inch Touch Screen	7Inch Touch Screen	5Inch Touch Screen	4.3Inch Touch Screen	4.3Inch
Camera	CCD	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
Signaling	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP
Video MCU	N/A	N/A	N/A	N/A	N/A
Voice MCU	3-Party	3-Party	3-Party	3-Party	3-Party
LAN Port	2	2	2	2	2
PoE	Support	Support	Support	Support	Support

Smart Hub Solution for Sensor Devices

Smart Hub for Wired/Wireless Sensor Devices

- AP-SH50 Smart Hub(Zigbee/Z-Wave)
- AP-SAH50 Smart Hub(Wired)
- AP-SHD50 Smart Hub(Wireless/Wired)




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Smart Hub Equipment Comparison Table

Model	AP-SH50	AP-SAH50	AP-SHD50
Service Features			
Sensor Type	Wireless	Wired	Wireless/Wired
	Zigbee, Zwave		Zigbee, Zwave
Wired Sensor Port	N/A	6-Port	6-Port
Smart Appl. for Phone, PAD	Support	Support	Support
Smart Web Manager	Support	Support	Support
LAN Port	1	1	1
PoE(Optional)	Option	Option	Option



AP-SH50 Smart Hub

Product Overview

AP-SH50 Smart Hub for Z sensors

- Advanced Smart Home Solution
- Zigbee/Zwave Dual Sensor Interface Support
- Smart IP Routing Service Features for Sensor Network
- Smart Wall Pad Interworking Service Features
- Smart Hub Interworking Support for Third Party
- High Performance RISC Programmable Architecture
- One 10/100Mbps Fast Ethernet
- High Performance LAN-to-Zigbee/Zwave Routing Capability
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Smart Web based Management
- Light and Compact Design with External Power Supply

Hardware Specification

AP-SH50 Smart Hub for Z sensors

- RISC Microprocessor Computing Power
- 1-Port Zigbee Interface
- 1-Port Zwave Interface
- 1-Port Zigbee Antenna
- 1-Port Zwave Antenna
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet (RJ45)
- Run LED, LAN LED, Port LEDs
- External Power Supply



Hardware Specification

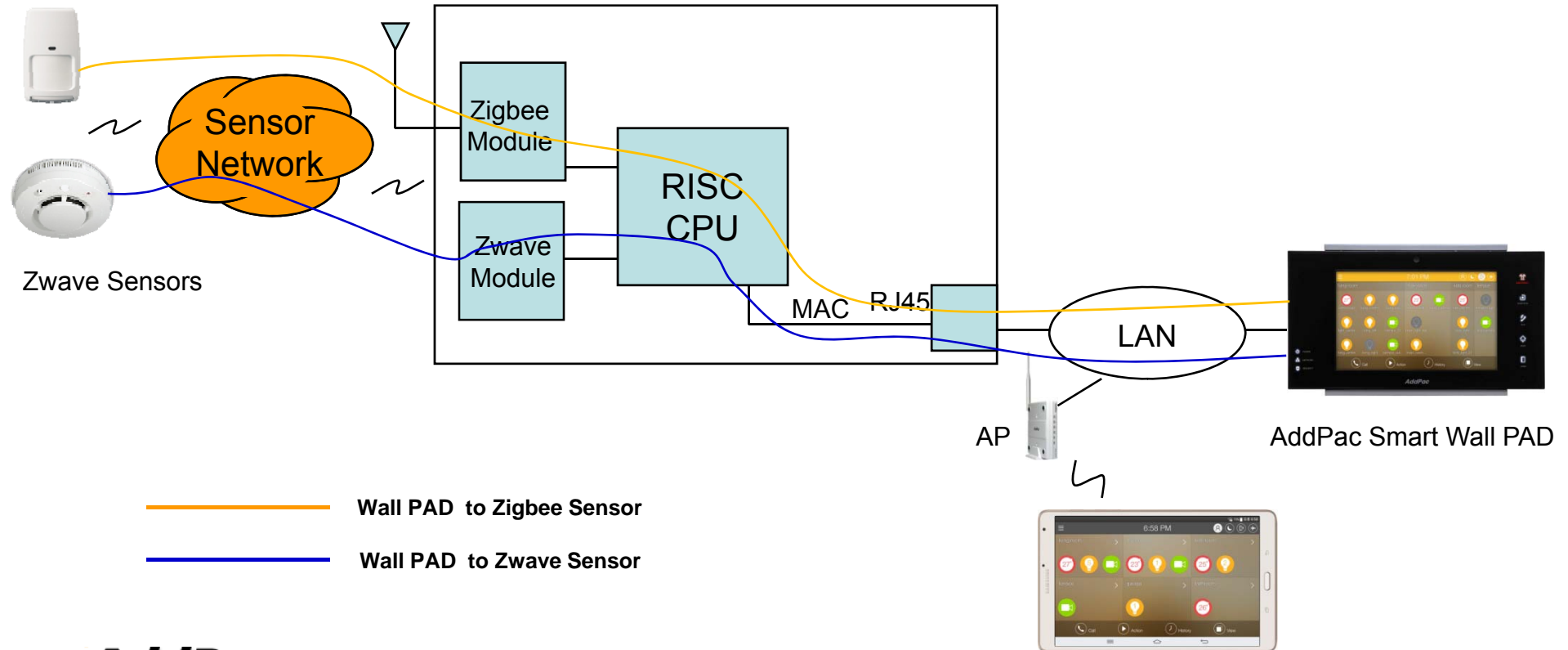
AP-SH50 Smart Hub for Z sensors



Smart Hub Service Diagram

AP-SH50 Smart Hub Internal H/W Block Diagram

Zigbee Sensors

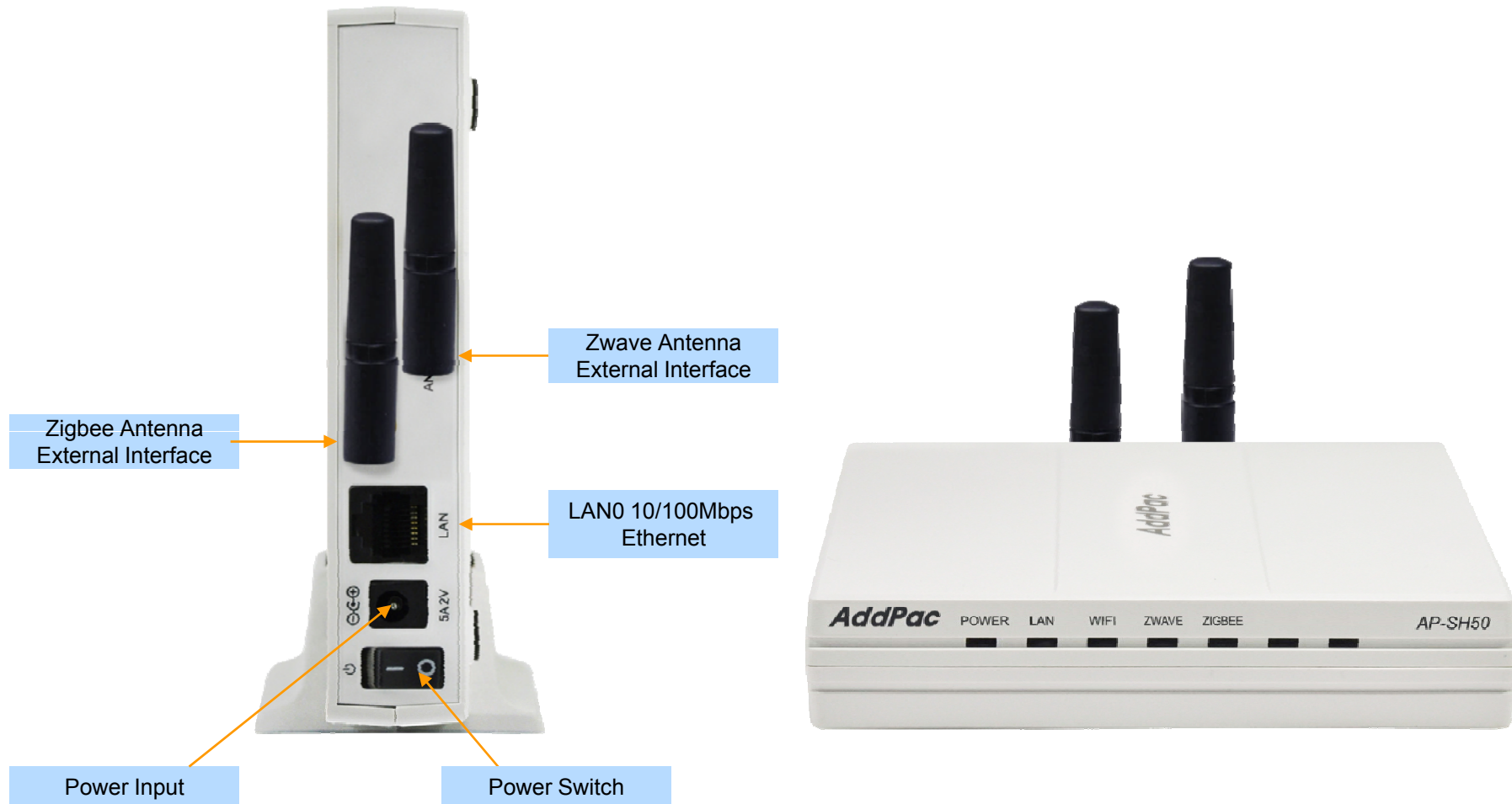


- Wall PAD to Zigbee Sensor
- Wall PAD to Zwave Sensor

Hardware Specification

AP-SH50 Smart Hub for Z sensors

Network interface Configurations



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Thank you!

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