Zwave Sensor Hub IP Video Door Phone Solution

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AddPac Technology

Sales and Marketing

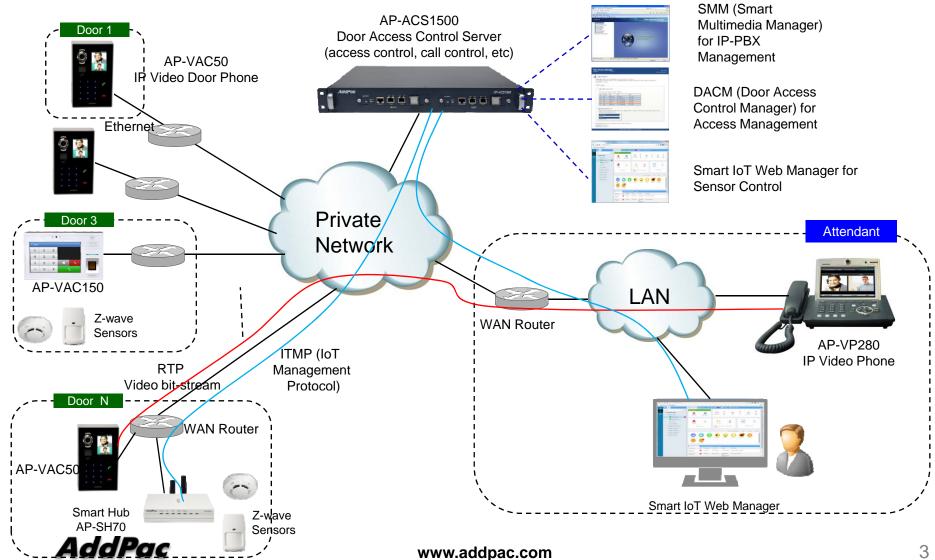
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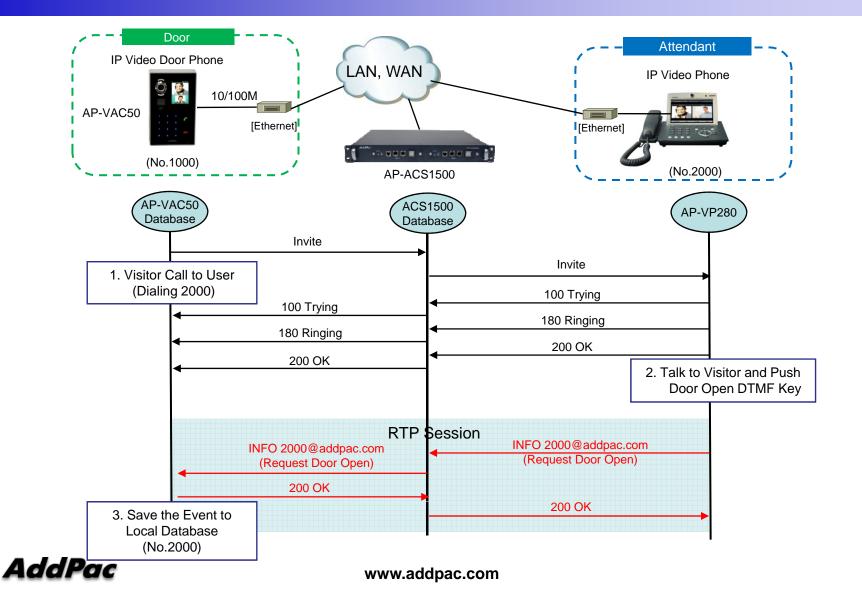
- Zwave Sensor Hub + IP Video Door Phone Service Network Diagram
- SIP Call Flow Diagram
- IP Video Door Phone Series + Zwave Smart Hub
 AP-VAC50 + AP-SH70 Zwave Smart Hub (Example)
- Zwave Smart Hub Built-In IP Video Door Phone Series
 - AP-VAC150, AP-VAC80 IP Video Door Phone
 - AP-VAC350, AP-VAC300, AP-VAC280 IP Video Door Phone
- AP-ACS1500 Door Access Control System
 - Call Manager
 - Door Access Manager (RF, Fingerprint, Time Attendant)
 - IoT Manager for Zwave Door Sensor Control



Network Diagram



SIP Video Call Flow



IP Video Door Phone Series + Zwave Smart Hub



IP Video Door Phone Solution

	Model Service Features	AP-VAC200	AP-VAC100	AP-VAC50	AP-VAC20
	Duplex (Voice)	Full Duplex	Full Duplex	Full Duplex	Full Duplex
	Key Pad	3x4 Key Support	3x4 Key Support	3x4 Key Support	3x4 Key Support
	LCD	3.5 Inch	3.5 Inch	2inch LCD	Graphic LCD
	RF Card	Support	Support	Support	Support
	Fingerprint	Support	N/A	N/A	N/A
	Camera Sensor	SD(VGA)	SD(VGA)	SD(VGA)	SD(VGA)
	Video Codec	SD, H.264/MPEG4	SD, H.264/MPEG4	SD, H.264/MPEG4	SD, H.264/MPEG4
	Voice Codec	G.711	G.711	G.711	G.711
	Signaling	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP
	MIC & Speaker Phone	Support	Support	Support	Support
	LAN Port	1	1	1	1
Ad	PoE(Option)	Support	Support	Support	Support

Zwave Smart Hub Solution

	Model	AP-SH50	AP-SH50ZW	AP-SH70
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	Service Features			
	Sensor Type	Wireless	Wireless	Wireless
		Zigbee, Zwave	Zwave Only	Zwave
	Wired Sensor Port	N/A	N/A	N/A
	Smart Appl. for Phone, PAD	Support	Support	Support
	Smart Web Manager	Support	Support	Support
	LAN Port (Fast Ethernet)	1	1	1
	WiFi (USB)	N/A	N/A	Support (Opiton)
Ad	PoE(Option)	Option	Option	Option

Zwave Smart Hub Built-In IP Video Door Phone Series



5 Inch LCD IP Video Door Phone Solution

	lodel Fervice Features	AP-VAC150	AP-VAC80
D	ouplex (Voice)	Full Duplex	Full Duplex
K	ey Pad	Touch Screen based Key Support	Touch Screen based Key Support
L	CD	5 Inch LCD	5 inch LCD
R	F Card	Support	Support
Fi	ingerprint	Support	N/A
Z	Wave Sensor Hub	Option	Option
Vi	ïdeo Camera	SD (CMOS Sensor)	SD (CMOS Sensor)
Vi	ïdeo Codec	H.264/MPEG4	H.264/MPEG4
Ve	oice Codec	G.711	G.711
Si	ignaling	H.323/SIP	H.323/SIP
М	IIC & Speaker Phone	Support	Support
	AN Port	1	1
Addf P	oE(Option)	Support	Support

7 Inch LCD IP Video Door Phone Solution

	Model	AP-VAC350	AP-VAC300	AP-VAC280
	Service Features		Statistic vi i i i i i i i i i i i i i i i i i	
	Duplex (Voice)	Full Duplex	Full Duplex	Full Duplex
	Key Pad	Touch Screen based Key Support	Touch Screen based Key Support	Touch Screen based Key Support
	LCD	7 Inch LCD	7 inch LCD	7 inch LCD
	RF Card	Support	Support	Support
	Fingerprint	Support	N/A	N/A
	ZWave Sensor Hub	Option	Option	Option
	Video Camera	SD (CMOS Sensor)	SD (CMOS Sensor)	SD (CMOS Sensor)
	Video Codec	H.264/MPEG4/H.263	H.264/MPEG4/H.263	H.264/MPEG4/H.263
	Voice Codec	G.711	G.711	G.711
	Signaling	H.323/SIP	H.323/SIP	H.323/SIP
	MIC & Speaker Phone	Support	Support	Support
	LAN Port	1	1	1
Ad	PoE(Option)	Support	Support	Support
			anhannann	

AP-ACS1500 Door Access Control System







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Main Features

AP-ACS1500 DACS (Door Access Control System)

- Door Access Control Application System + Call Manager
- SIP Application Server, Proxy, Registrar and Location Server
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
- High Performance RISC Architecture
- Smart Multimedia Manager for Call Manager
- DACM(Door Access Control Manager) for IP Door Phone Control (RF Card, Fingerprint Module, etc)
- IoT Web Manager for Door Zwave Sensor Control
- IPv4/IPv6 based Dual Network Protocol Support
- Fault Tolerant and Scalability Architecture
- Firmware Upgradeable Architecture
- Dual System Redundancy Architecture
 - Two(2) Fast Ethernet Interface / System
- Dual Redundancy Power

Hardware Features

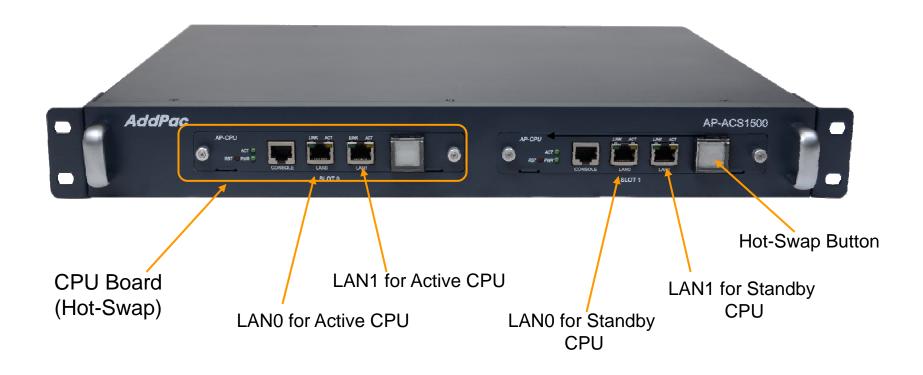
AP-ACS1500 DACS (Door Access Control System)

- High-End Microprocessor Computing Power
- Main Chassis
 - Dual Redundancy CPU Boards for System Fault Tolerant
 - Two(2) 10/100Mbps Fast Ethernet
 - One(1) RS-232C Console (RJ45)
 - Dual Redundancy Power Supply
 - Hot-Swap Features

Hardware Specification

AP-ACS1500 DACS (Door Access Control System)

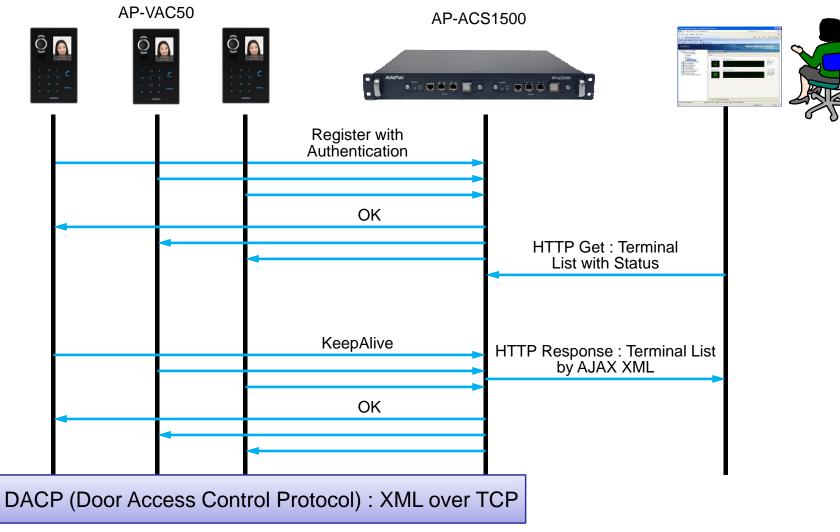
AP-ACS1500 Front Side



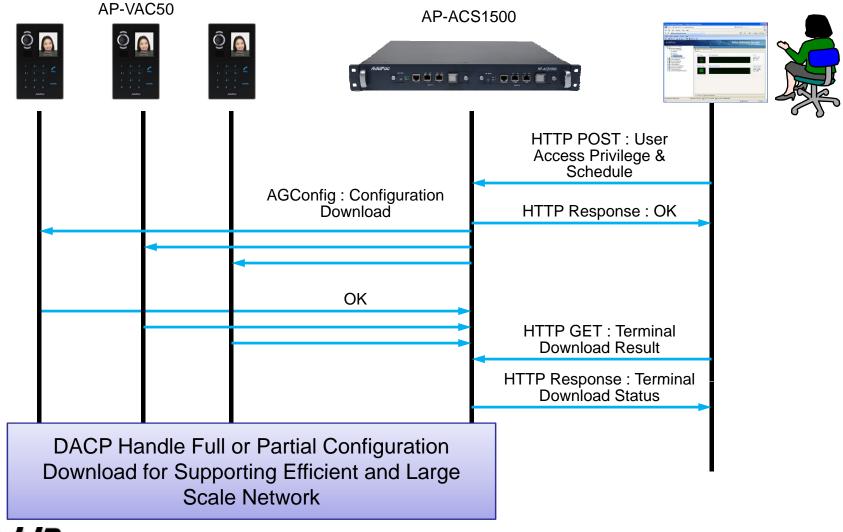
DACS System Message Flow



DACS System Message Flow Registration and KeepAlive

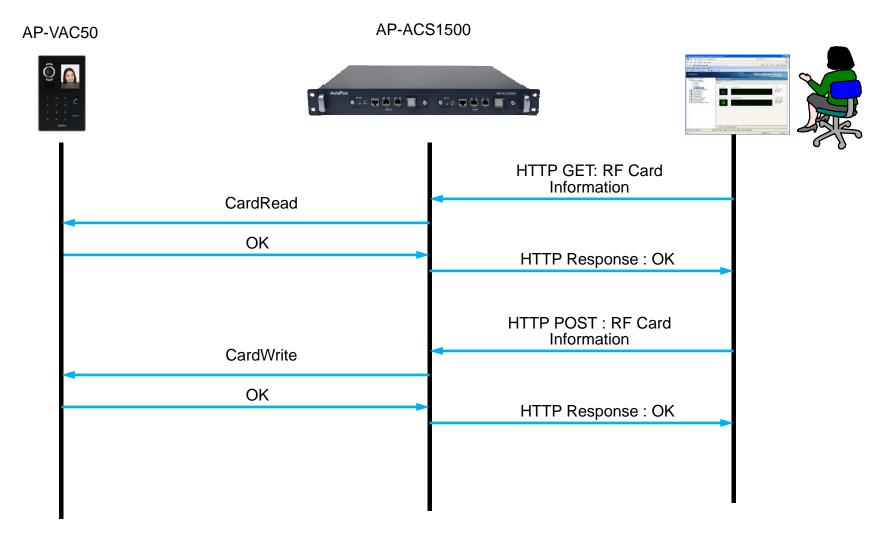


DACS System Message Flow Access Privilege and Schedule Download



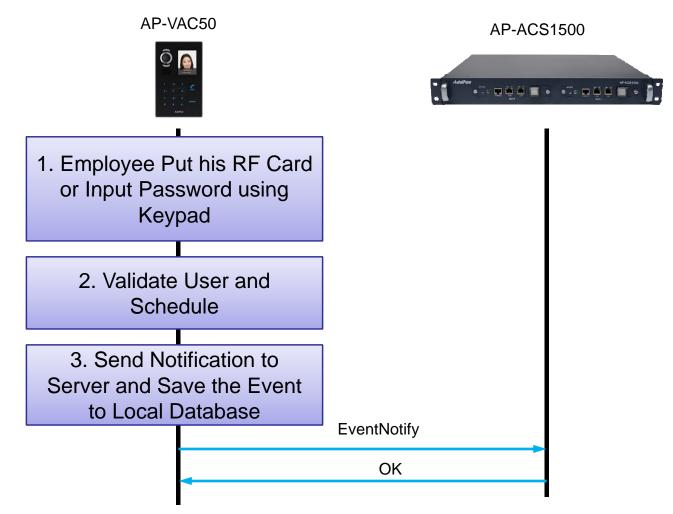
DACS System Message Flow

RF Card Read/Write and Registration



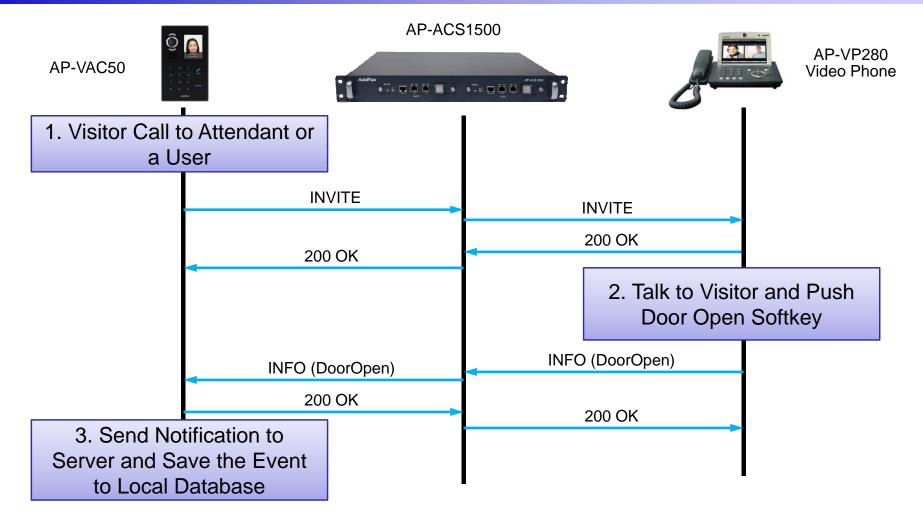
DACS System Message Flow

Door Open by RF Card or Password



DACS System Message Flow

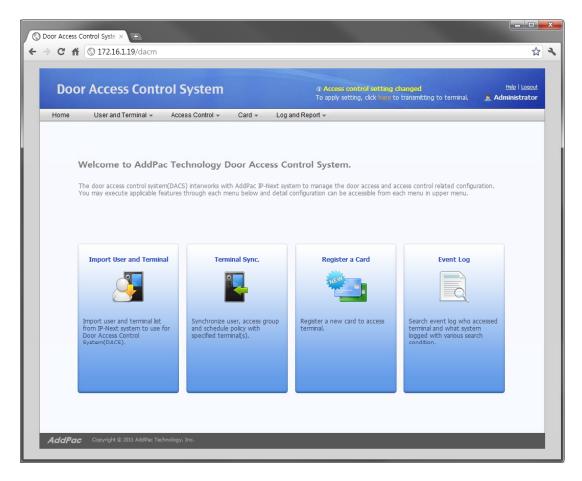
Door Open by Other Terminal



Door Access Control Manager for AP-ACS1500



Main Web Page





Import User and Terminal

	ff (© 172.1	6.1.19/dacm/im	portData	
Import User and Terminal an inporte the users and terminals from 1P-Next PEX system. ob can be used when first setup or users and terminals are nervity added or changed in a IP-Next PEX system. reminal .user list to be imported Total Users: 11 Chanado: 1 Added: 10 Deletad: 6 Opelpay new added users of IP-Next PEX. The selected user will be imported to DACS[Door Access Control System]. Image: Added users of IP-Next PEX. Added users: In I D-Next PEX system Extension Nume Diagram (SFRoof) Itali Hange Noodum Itali	or	Acces	s Control Sy	vstem	
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Select access control group policy for selected added users and you can select one or more groups.	Select a			default access group	

User List

lome	User	and Terminal 👻 Acc	ess Control + Card +	Log and Report 👻			
2	User List						
Sear	h registered a	cess terminal user or sea	ch for all users. You can proceed	add/change/delete through th	ne screen.		
Searc	h List: All U	Isers 💌 Input	search word Search				Import User
	Extension	Name	Department	Access Policy	Date Created	Modify	/ Delete
1	1000	Choi jinsuk	/5Floor/SM/	dccess Allow	2011-07-22 15:50:01	Ľ	×
2	1008	Kwon hyojun	/5Floor/SM/	Access Allow	2011-07-22 15:50:00	P	×
3	1014	Oh hyoungsuk	/5Floor/Framework/	Access Allow	2011-07-22 15:50:01	R	×
4	1015	Chol byunggu	/5Floor/Framework/	C Access Allow	2011-07-22 15:50:01	Ľ	×
5	1016	Lee seonghyun	/5Floor/Framework/	Access Allow	2011-07-22 15:50:01	P	×

Terminal List

me User and Terminal + Access Control + Card + Log and Report + Image: Control + Card + Log and Report + Image: Control + Image: Cont				System		То ар	cess control se ply setting, click		nsmitting to terminal.	🤱 Administr
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Import PRX system. Import Terminal Terminal Name Description Status Extension IP Address Model Name Version Date Created Detail View Detail View 1 2floor door terminal 3Floor d		Terminal List	t							
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Terminal Name Description Status Extension IP Address Model Name Version Date Created Detail View 1 2floor door terminal 2Floor door terminal 2Floor door terminal % Connected 1006 172.16.10.4 AP-VAC50 2011-07-29 17:08:50 % 2 3floor door terminal 3Floor door terminal % Connected 1002 172.16.10.1 AP-VAC20 8.50.001 2011-07-22 15:50:01 % 3 Sfloor door terminal SFloor door terminal % Connected 1005 172.16.10.2 AP-VAC50 2011-07-29 17:08:50 %		-								
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1 2floor door terminal 2Floor door terminal		Terminal Name	Description	Status	Extension	IP Address	Model Name	Version	Date Created	
3 5floor door terminal 5Floor door ter 🖉 Connected 1005 172.16.10.2 AP-VAC50 2011-07-29 17:08:50	1	2floor door terminal		S 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	
P. Contraction of the second se					1005	172, 16, 10, 2	AP-VAC50		2011-07-29 17:08:50	
	3	5floor door terminal	5Floor door ter	Connected						
	-			-						

Access Control Group Management

	JUI ALLESS CUI	trol System			ss control setting changed setting, click here to transmitti	ing to terminal.	n 🚊 д	<u>iele Logo</u> inistrato
Home	e User and Terminal 👻	Access Control 👻	Card 👻	Log and Report 👻				
You Also,	Access Control Gro can define a new Access Contu you can adjust priority of acce	ol Group with one or mor	e terminals, us 'down arrow (ers and schedule policy. or mouse drag/drop).				
						Add a Ad	cess Control Gr	oup
	Group Name	Description		Schedule Policy	Date Created	Modif	y Delete	
t	3floor door			All Allow	2011-06-28 11:37:13	Ľ	×	
t	job policy	job policy access gro	up	working day	2011-07-04 17:06:47	Ľ	×	
Î	default group	default access group		All Allow	2011-06-28 11:37:13	Ľ	×	



Configuration Download to Terminal

Terminal Sync.					
		with selected terminals			
t checked terminals have	e updated configuration	one need to be synchronized.			
erminal Name	IP Address	Connection Status	Sync Status		
floor door terminal	172.16.10.4	Sconnected	🌾 Not yet synchronized		
floor door terminal	172.16.10.1	Sonnected	🜾 Not yet synchronized		
floor door terminal	172.16.10.2	Sonnected	🜾 Not yet synchronized		
he main entrance door	172.16.10.3	🚿 Connected	Not yet synchronized		
r 1 2	onize user, access grou chockod torminalchav erminal Name Roor door terminal Roor door terminal Roor door terminal	erminal Name IP Address Roor door terminale have updated configuration Roor door terminal 172.16.10.4 Roor door terminal 172.16.10.1 Roor door terminal 172.16.10.2	erminal Name IP Address Connection Status Roor door terminal 172.16.10.1 Ø Connected Roor door terminal 172.16.10.2 Ø Connected	onize user, access group and schedule policy with selected terminals. c. ebacked terminals have updated configuratione need to be synchronized. erminal Name IP Address Connection Status Sync Status floor door terminal 172. 16. 10.4 Image Connected Ye Not yet synchronized floor door terminal 172. 16. 10.1 Image Connected Ye Not yet synchronized floor door terminal 172. 16. 10.2 Image Connected Ye Not yet synchronized	erminal Name IP Address Connection Status Sync Status floor door terminal 172.16.10.1 Ø Connected Y Not yet synchronized floor door terminal 172.16.10.2 Ø Connected Y Not yet synchronized

RF Card Management

Do	or Access (Control S	System			ol setting changed click here to transmitting	to termin:	Help al. <u>Adminis</u>	
ome	User and Term	iinal - Acc	ess Control 👻	Card + Log) and Report +	cited many to cromanically	co commit		, cru
-	Card List IV registered card list. A	lso, you can regis	ster a new card o	r modify/delete sele	cted card(s).				
earc	h List: All card	✓ Input	search word	Search				Register a Card	I
	Serial Number	Extension	Username	Status	Description	Date Created	Modify	Delete	
1	4000238	1008	Kwon hyojun	v Specified	Temporary cards are issued.	2011-07-08 15:59:03		×	
2	123456789			Unspecified		2011-07-22 16:17:04	P	×	

Access Log Management

Do	or Access	Control S	ystem	① Access control setting changed To apply setting, clck line to transmitting to terminal.	Help Loqout
Home	User and Tern	ninal + Acce:	ss Control 👻 Ca	ard 👻 Log and Report 🗸	
Durati User E	Event Log y various event log wit ion : Extension Number : t Level :	11-07-10 Error	■ ~ 11-08-09	ninal registration).	
	Time	Search	Reset User Extension	Event	
1	2011-07-15 10:27:27	() Warning	1000	authentication failure	
	2011-07-15 11:25:27	Notice	1000	registration success	
3	2011-07-15 12:21:27	O 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	



IoT Web Manager for AP-ACS1500



Key Concepts for Enterprise IoT Solution

• Enterprise Requirements

- The things in enterprise are controlled on much more complex environment and configurations than home.
- Network conditions and management requirements are also much more various than home.

• Our Solution

- We do support flexible configuration of Sensor Controllers and Managers to meet various enterprise requirements.
- We do support several type of Sensor Controllers and Managers to meet various enterprise environments.
- We do support flexible management authority and access control for center/site operators and users.



Sensor Controller and Manager Role

Smart Sensor Controller

- It controls his section composed by several sensors.
- It provides his own smart phone app interface, PC web interface and Wall Pad interface to show sensor status and to control the sensors.
- It provides discovering sensor for inclusion and configure it.
- This Sensor Hub integrated with Controller provides robust on network and server fault.
- Smart IoT Web Manager
 - It monitors controller and sensor status for continuous service.
 - It monitors alarm status of section and device by categorizing to safety alarm, security alarm, and system alarm.
 - It controls multiple sections by task with immediately or schedule downloaded to controllers. (TBD.)

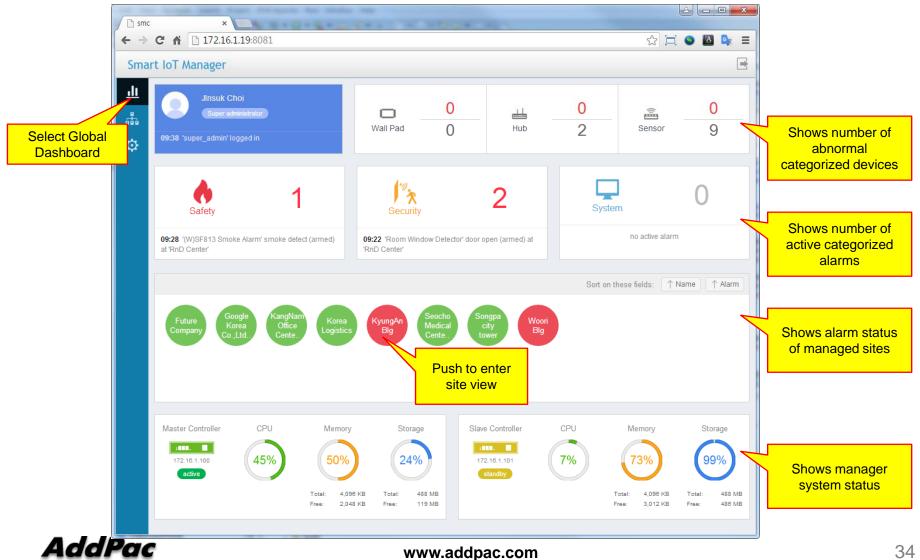


Hierarchical Administrative Domains

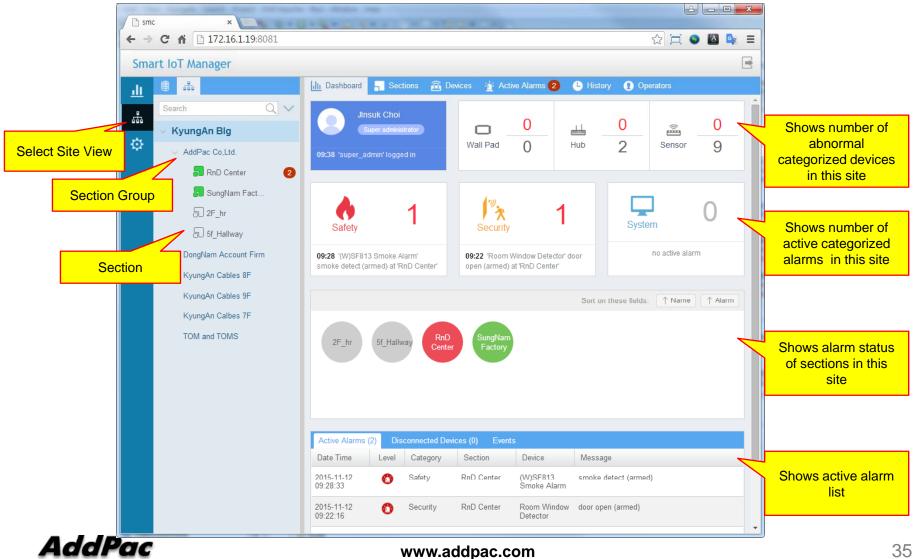
- Super Administrator
 - He can manage multiple sites and site operators.
- Site Operator
 - A site is logically independent administrative domain which can be a building or a set of offices and buildings.
 - A site is composed by multiple sections build up hierarchically.
 - A site operator can manage all sections in his site.
- Group Operator
 - A group operator can view and control his sections in a group.
- User
 - An user can view and control his section by Wall Pad, PC web and smart phone app.



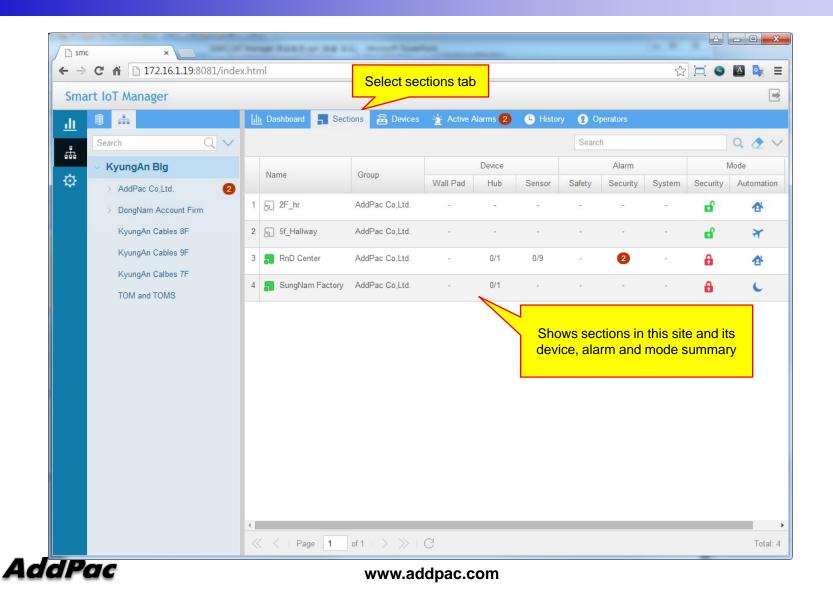
Global Dashboard



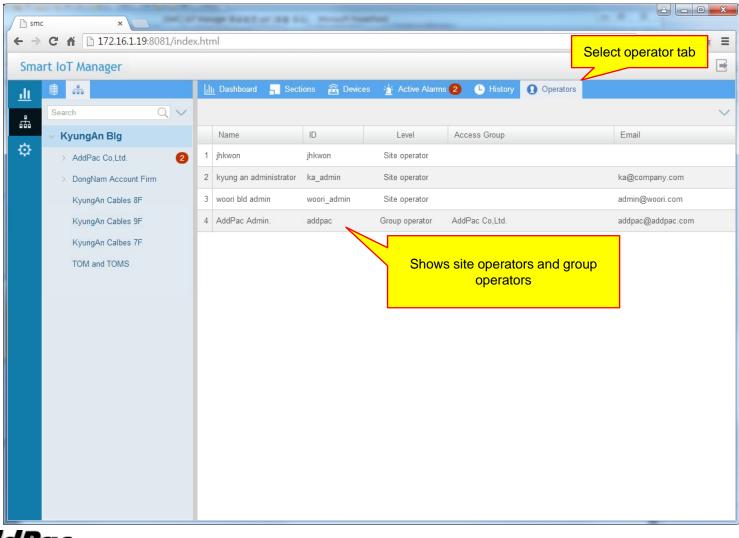
Site Dashboard



Section List

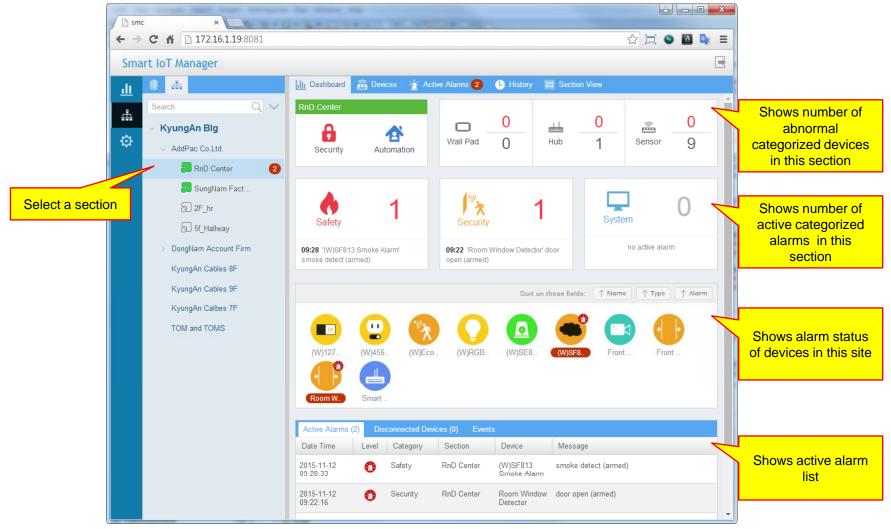


Operator List

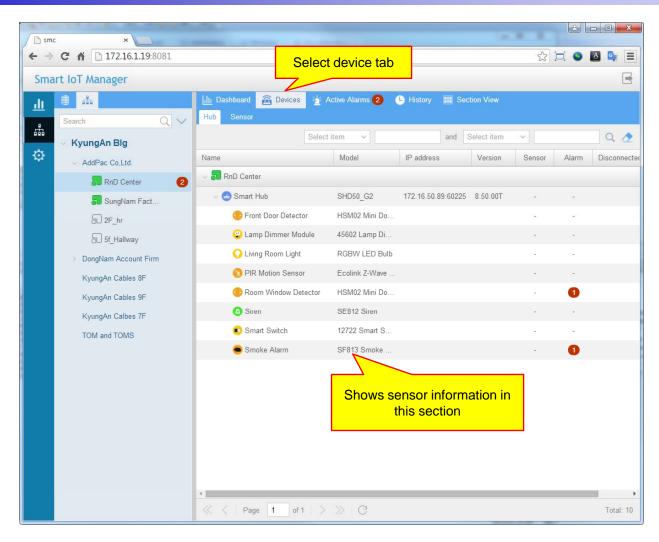




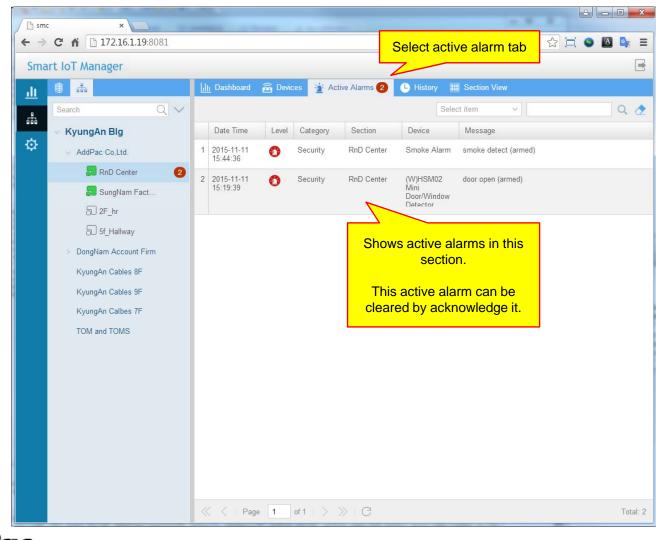
Section Dashboard



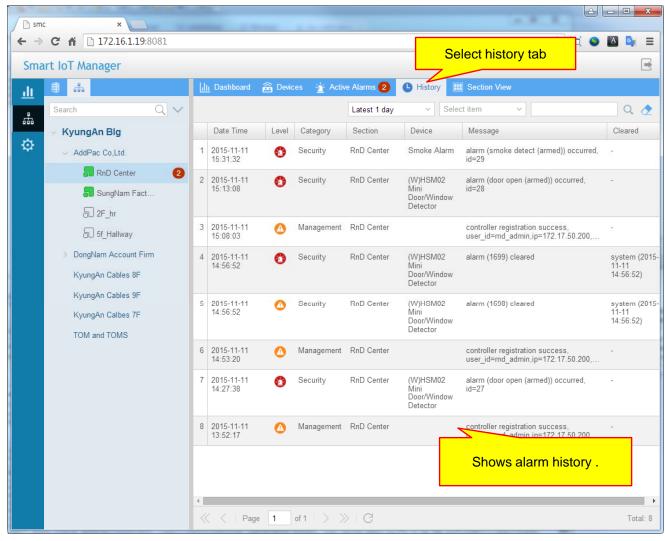
Device List



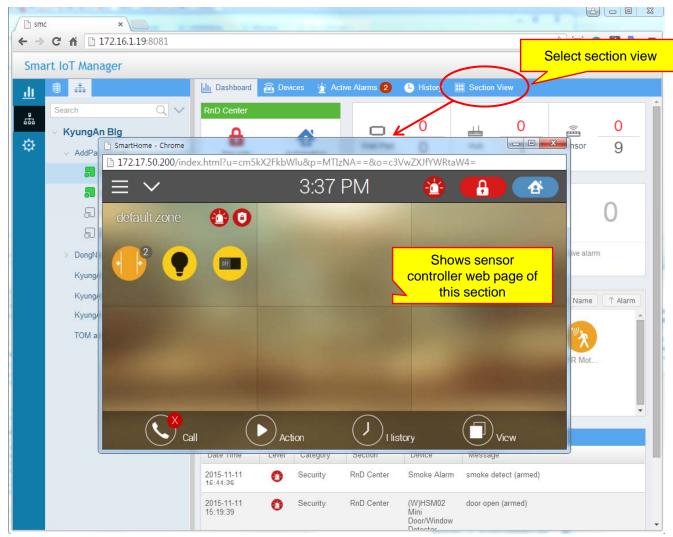
Active Alarms



Event History



Section View



Thank you!

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