

AP-SNCWin

Smart Sensor Network Controller

High-performance MS-Window based Sensor Network Controller Solution



AddPac

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Sales and Marketing

www.addpac.com

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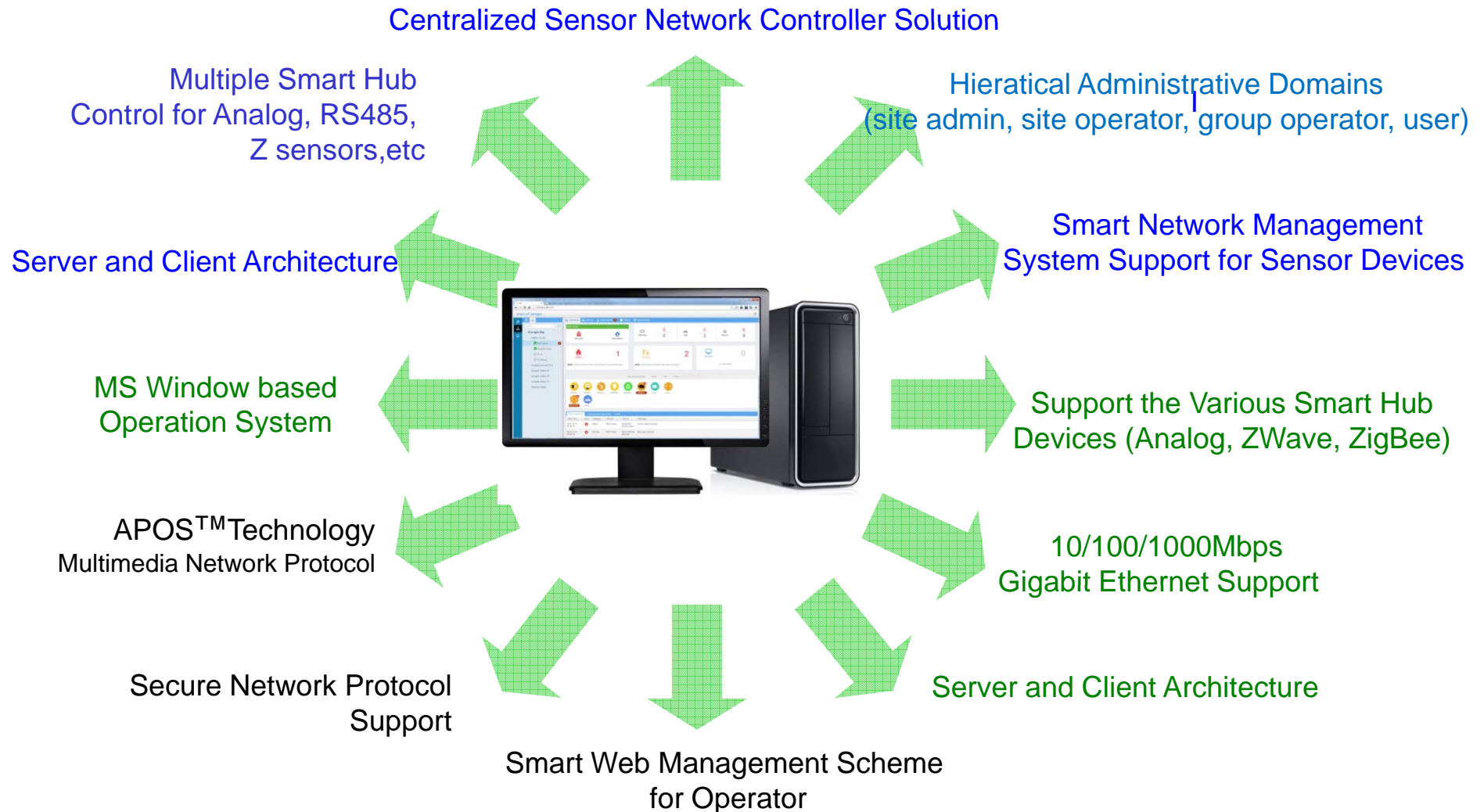
Product Overview

AP-SNCWin Smart Sensor Network Controller

- Centralized Sensor Network Control Service
- Support Smart Hub Devices for Zigbee/Zwave sensors
- Support Smart Hub Devices for Analog Sensors like as intrusion sensors, RS485 sensor, etc
- Server and Client Architecture
- Fault Tolerant and Scalability Architecture
- Powerful Management and User Friendly Features
- Firmware Upgradeable Architecture
- Various Smart Hub System Support (Analog, Z-sensors, RS485,etc)
- Secure Network Protocol Support
- MS-Window Operation System
- Smart Web based Browser for Operator
- Hieratical Administrative Scheme

Product Highlights

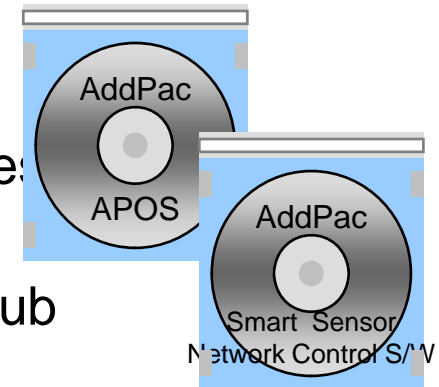
AP-SNCWin Smart Sensor Network Controller



Software Service

AP-SNCWin Smart Sensor Network Controller

- Built-in AddPac APOS Internetworking Software
 - Scalability, Functionality, and Stability Features
- Firmware Upgradeable Computing Architecture
- Industry Standard IP based Network Protocol Features
- Secure Network Protocol
- Sensor Network Control Service for Multiple Smart Hub
- Smart IoT Web Management





IoT Service and Features

Key Concepts for Enterprise IoT Solution

AP-SNCWin Smart Sensor Network Controller

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

Hierarchical Administrative Domains

AP-SNCWin Smart Sensor Network Controller

- **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 operator can manage his site and group operators of it.
- **Group Operator**
 - A site is composed by multiple sections that are build up by hierarchical groups.
 - A group operator can view and control the sections that are belong to the group.
- **User**
 - An user can view and control his section.

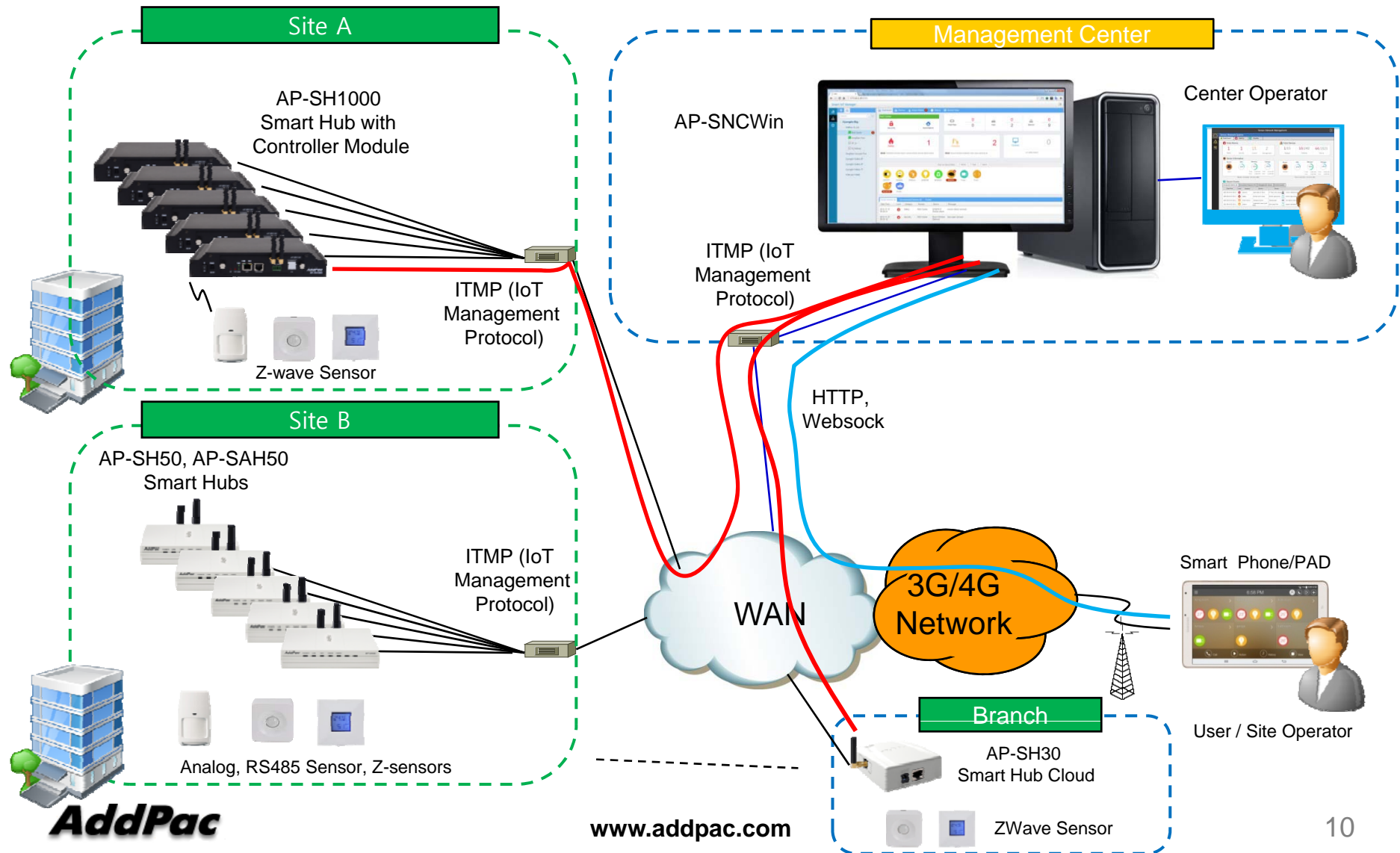
Multi Sites with Center Manager Model

AP-SNCWin Smart Sensor Network Controller

- **Smart IoT Center Controller and Manager**
 - A management center has a AP-SNCWin with **ITCS-MS™**, **ITMS-MS™** software modules with active-standby fault tolerant configuration.
 - **ITMS-MS™** is manager module for multiple sites which manages multiple sections and heretical group of sections in multiple sites.
- **Smart Hubs**
 - The Smart Hubs with / without built-in controller can be controlled and managed by **ITMS-MS™** in a center.

Multi Sites with Center Manager Configuration

AP-SNCWin Smart Sensor Network Controller



Smart IoT Manager ITMS

AP-SNCWIn Smart Sensor Network Controller

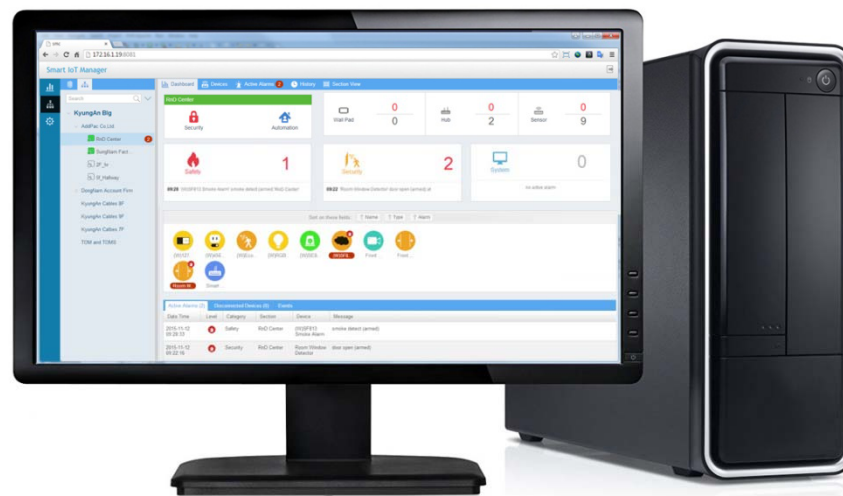
- ITMS™ is software module to manage set of Smart Hubs and controllers.
- ITMS-SS™ can manage single site and ITMS-MS™ can manage multiple sites.
- It manages super administrator, site operator, group operator.
- It manages sites, groups, sections.
- It monitors alarms, events and logs.
- It monitors servers and devices in the site.
- It provides dashboard of site, group, and section.
- It provides provisioning, upgrade, replace of Smart Hubs.



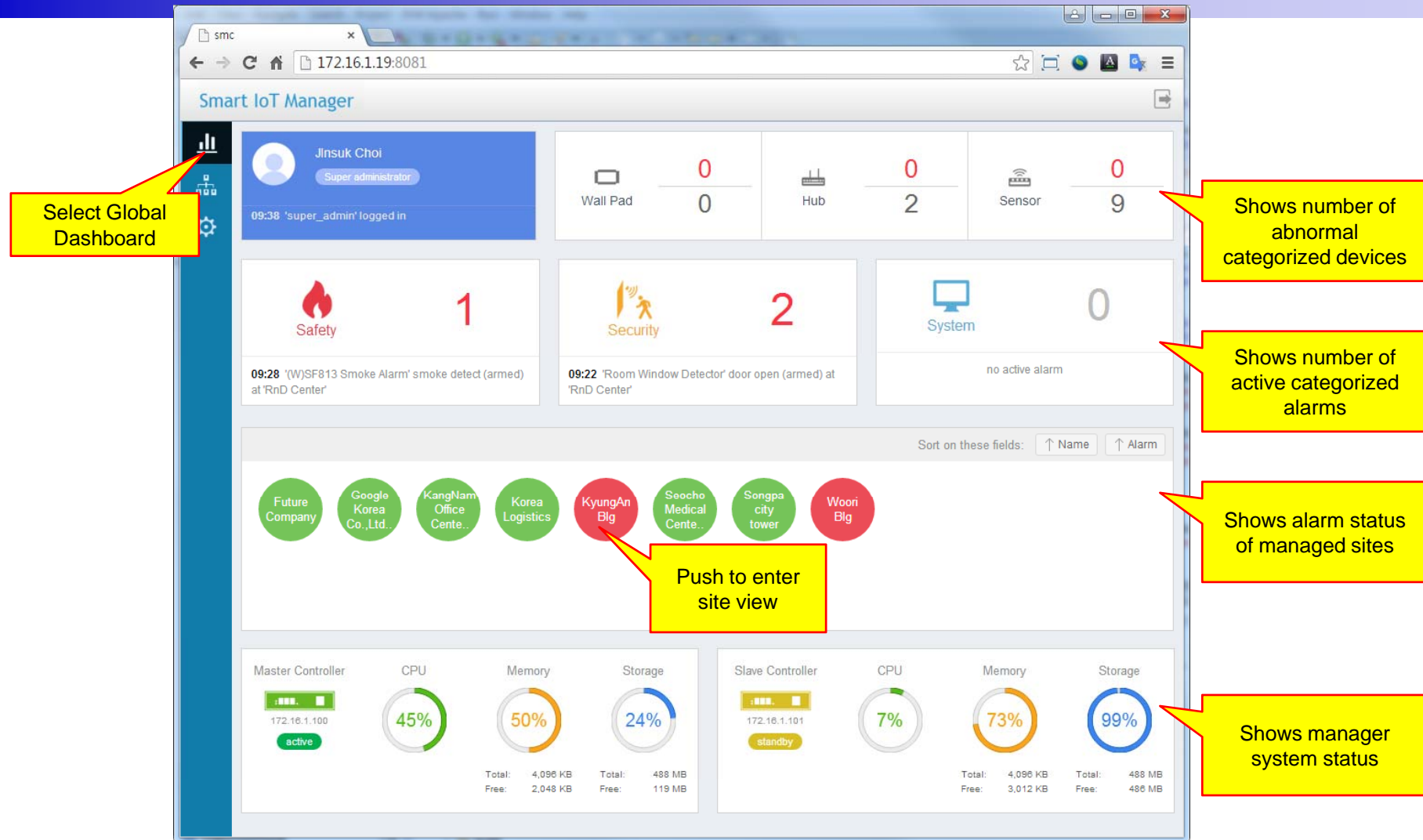
Manager Web UI

Smart IoT Web Manager UI

- Global Dashboard
- Site Dashboard
- Section List
- Operator List
- Section Dashboard
- Device List
- Active Alarms
- Event History
- Section View



Global Dashboard



Site Dashboard

The screenshot shows the 'Smart IoT Manager' interface. On the left is a sidebar with a search bar and a tree view under 'KyungAn Bldg'. The main area has a top navigation bar with 'Dashboard', 'Sections', 'Devices', 'Active Alarms' (2), 'History', and 'Operators'. Below this is a user profile for 'Jinsuk Choi' and a summary of abnormal categorized devices: Wall Pad (0), Hub (2), and Sensor (9). The next row shows active categorized alarms: Safety (1), Security (1), and System (0). Below these are circular indicators for section alarm status: 2F_hr, 5f_Hallway, RnD Center (red), and SungNam Factory (green). At the bottom is a table of active alarms.

Annotations:

- Select Site View:** Points to the site selection icon in the sidebar.
- Section Group:** Points to the 'KyungAn Bldg' folder in the sidebar.
- Section:** Points to the 'RnD Center' item in the sidebar.
- Shows number of abnormal categorized devices in this site:** Points to the summary cards for Wall Pad, Hub, and Sensor.
- Shows number of active categorized alarms in this site:** Points to the summary cards for Safety, Security, and System.
- Shows alarm status of sections in this site:** Points to the circular indicators for 2F_hr, 5f_Hallway, RnD Center, and SungNam Factory.
- Shows active alarm list:** Points to the 'Active Alarms' table.

Active Alarms (2)					
Date Time	Level	Category	Section	Device	Message
2015-11-12 09:28:33	High	Safety	RnD Center	(W)SF813 Smoke Alarm	smoke detect (armed)
2015-11-12 09:22:16	High	Security	RnD Center	Room Window Detector	door open (armed)

Section List

The screenshot shows the Smart IoT Manager web interface. The top navigation bar includes tabs for Dashboard, Sections, Devices, Active Alarms (2), History, and Operators. The left sidebar shows a search bar and a list of sections under 'KyungAn Bldg', including AddPac Co.,Ltd. (2), DongNam Account Firm, KyungAn Cables 8F, KyungAn Cables 9F, KyungAn Calbes 7F, and TOM and TOMS. The main content area displays a table of sections with columns for Name, Group, Device (Wall Pad, Hub, Sensor), Alarm (Safety, Security, System), and Mode (Security, Automation). The table lists four sections: 1. 2F_hr, 2. 5f_Hallway, 3. RnD Center, and 4. SungNam Factory. A yellow callout points to the 'Sections' tab, and another points to the table.

Select sections tab

Name	Group	Device			Alarm			Mode	
		Wall Pad	Hub	Sensor	Safety	Security	System	Security	Automation
1 2F_hr	AddPac Co.,Ltd.	-	-	-	-	-	-	🔒	🏠
2 5f_Hallway	AddPac Co.,Ltd.	-	-	-	-	-	-	🔒	✈️
3 RnD Center	AddPac Co.,Ltd.	-	0/1	0/9	-	2	-	🔒	🏠
4 SungNam Factory	AddPac Co.,Ltd.	-	0/1	-	-	-	-	🔒	🌙

Shows sections in this site and its device, alarm and mode summary

Operator List

Smart IoT Manager

172.16.1.19:8081/index.html

Select operator tab

Search

KyungAn Blg

- AddPac Co.,Ltd. 2
- DongNam Account Firm
- KyungAn Cables 8F
- KyungAn Cables 9F
- KyungAn Calbes 7F
- TOM and TOMS

	Name	ID	Level	Access Group	Email
1	jhwon	jhwon	Site operator		
2	kyung an administrator	ka_admin	Site operator		ka@company.com
3	woori bld admin	woori_admin	Site operator		admin@woori.com
4	AddPac Admin.	addpac	Group operator	AddPac Co.,Ltd.	addpac@addpac.com

Shows site operators and group operators

Section Dashboard

The screenshot shows the 'Smart IoT Manager' interface. The left sidebar contains a search bar and a list of sections under 'KyungAn Bldg'. The 'RnD Center' section is selected, indicated by a red badge with the number '2'. The main dashboard area displays various metrics and active alarms.

Callouts:

- Select a section:** Points to the 'RnD Center' section in the left sidebar.
- Shows number of abnormal categorized devices in this section:** Points to the 'RnD Center' header, which shows counts for Security (0), Automation (0), Wall Pad (0), Hub (1), and Sensor (9).
- Shows number of active categorized alarms in this section:** Points to the 'Active Alarms' section, which shows counts for Safety (1), Security (1), and System (0).
- Shows alarm status of devices in this site:** Points to the 'Active Alarms' list, which shows details for two active alarms.
- Shows active alarm list:** Points to the 'Active Alarms' table.

Date Time	Level	Category	Section	Device	Message
2015-11-12 09:28:33	High	Safety	RnD Center	(W)SF813 Smoke Alarm	smoke detect (armed)
2015-11-12 09:22:16	High	Security	RnD Center	Room Window Detector	door open (armed)

Device List

The screenshot shows the Smart IoT Manager web interface. The browser address bar displays the URL 172.16.1.19:8081. The interface has a sidebar on the left with a search bar and a list of locations under 'KyungAn Bldg', including 'RnD Center' (which has a red badge with the number 2), 'SungNam Fact...', '2F_hr', '5f_Hallway', 'DongNam Account Firm', 'KyungAn Cables 8F', 'KyungAn Cables 9F', 'KyungAn Calbes 7F', and 'TOM and TOMS'. The main area has a top navigation bar with tabs: 'Dashboard', 'Devices' (selected), 'Active Alarms' (with a red badge with the number 2), 'History', and 'Section View'. Below the 'Devices' tab, there are sub-tabs for 'Hub' and 'Sensor'. A table displays sensor information with columns: Name, Model, IP address, Version, Sensor, Alarm, and Disconnected. The table lists various sensors under the 'RnD Center' location, including 'Front Door Detector', 'Lamp Dimmer Module', 'Living Room Light', 'PIR Motion Sensor', 'Room Window Detector', 'Siren', 'Smart Switch', and 'Smoke Alarm'. The 'Room Window Detector' and 'Smoke Alarm' rows have red badges with the number 1 in the 'Alarm' column. A yellow callout points to the 'Devices' tab, and another points to the sensor information table.

Select device tab

Shows sensor information in this section

Name	Model	IP address	Version	Sensor	Alarm	Disconnected
RnD Center						
Smart Hub						
Front Door Detector	HSM02 Mini Do...	172.16.50.89:60225	8.50.00T	-	-	-
Lamp Dimmer Module	45602 Lamp Di...			-	-	-
Living Room Light	RGBW LED Bulb			-	-	-
PIR Motion Sensor	Ecolink Z-Wave ...			-	-	-
Room Window Detector	HSM02 Mini Do...			-	1	-
Siren	SE812 Siren			-	-	-
Smart Switch	12/22 Smart S...			-	-	-
Smoke Alarm	SF813 Smoke ...			-	1	-

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Active Alarms

Select active alarm tab

Shows active alarms in this section.

This active alarm can be cleared by acknowledge it.

	Date Time	Level	Category	Section	Device	Message
1	2015-11-11 15:44:36		Security	RnD Center	Smoke Alarm	smoke detect (armed)
2	2015-11-11 15:19:39		Security	RnD Center	(W)HSM02 Mini Door/Window Detector	door open (armed)

Page 1 of 1 Total: 2

Event History

Smart IoT Manager

Search

Latest 1 day

Select item

	Date Time	Level	Category	Section	Device	Message	Cleared
1	2015-11-11 15:31:32	Security	RnD Center	Smoke Alarm	alarm (smoke detect (armed)) occurred, id=29	-	
2	2015-11-11 15:13:08	Security	RnD Center	(W)HSM02 Mini Door/Window Detector	alarm (door open (armed)) occurred, id=28	-	
3	2015-11-11 15:08:03	Management	RnD Center		controller registration success, user_id=rnd_admin,ip=172.17.50.200,...	-	
4	2015-11-11 14:56:52	Security	RnD Center	(W)HSM02 Mini Door/Window Detector	alarm (1699) cleared	system (2015-11-11 14:56:52)	
5	2015-11-11 14:56:52	Security	RnD Center	(W)HSM02 Mini Door/Window Detector	alarm (1698) cleared	system (2015-11-11 14:56:52)	
6	2015-11-11 14:53:20	Management	RnD Center		controller registration success, user_id=rnd_admin,ip=172.17.50.200,...	-	
7	2015-11-11 14:27:38	Security	RnD Center	(W)HSM02 Mini Door/Window Detector	alarm (door open (armed)) occurred, id=27	-	
8	2015-11-11 13:52:17	Management	RnD Center		controller registration success, user_id=rnd_admin,ip=172.17.50.200,...	-	

Page 1 of 1

Total: 8

Section View

Smart IoT Manager

Dashboard Devices Active Alarms 2 History Section View

Search

KyungAn Big

AddPa

SmartHome - Chrome

172.17.50.200/index.html?u=cm5kX2FkbWlu&p=MTIzNA==&o=c3VwZXJfYWRTaW4=

3:37 PM

default zone

Shows sensor controller web page of this section

Date Time	Level	Category	Section	Device	Message
2015-11-11 15:44:36	Security	RnD Center	Smoke Alarm	smoke detect (armed)	
2015-11-11 15:19:39	Security	RnD Center	(W)HSM02 Mini Door/Window Detector	door open (armed)	

Ordering Information

- AP-SNCWin Smart Sensor Network Controller Platform-
 - MS-Window Commercial Server, PC, etc
- Built-in APOS Internetworking Software for AP-SNCWin
- Including 1 Year Hardware Warranty
- Product Documents
 - Install and Operation Guide (PDF)
- Pricing
 - AddPac Technology Regional Sales Manager
 - Authorized Sales and Marketing Representatives
 - Please Contact www.addpac.com



Thank you!

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Sales and Marketing

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