

# AP-ICS100

## Emergency IP Call System

High Performance Emergency IP Call System Solution

### Product Overview



**AddPac**

**AddPac Technology**

Sales and Marketing

# Contents

- Product Overview
- Hardware Specification
- Software Service
- Network Service and Features
- Application Area
- IP Call System Management Server Solution
- Ordering Information

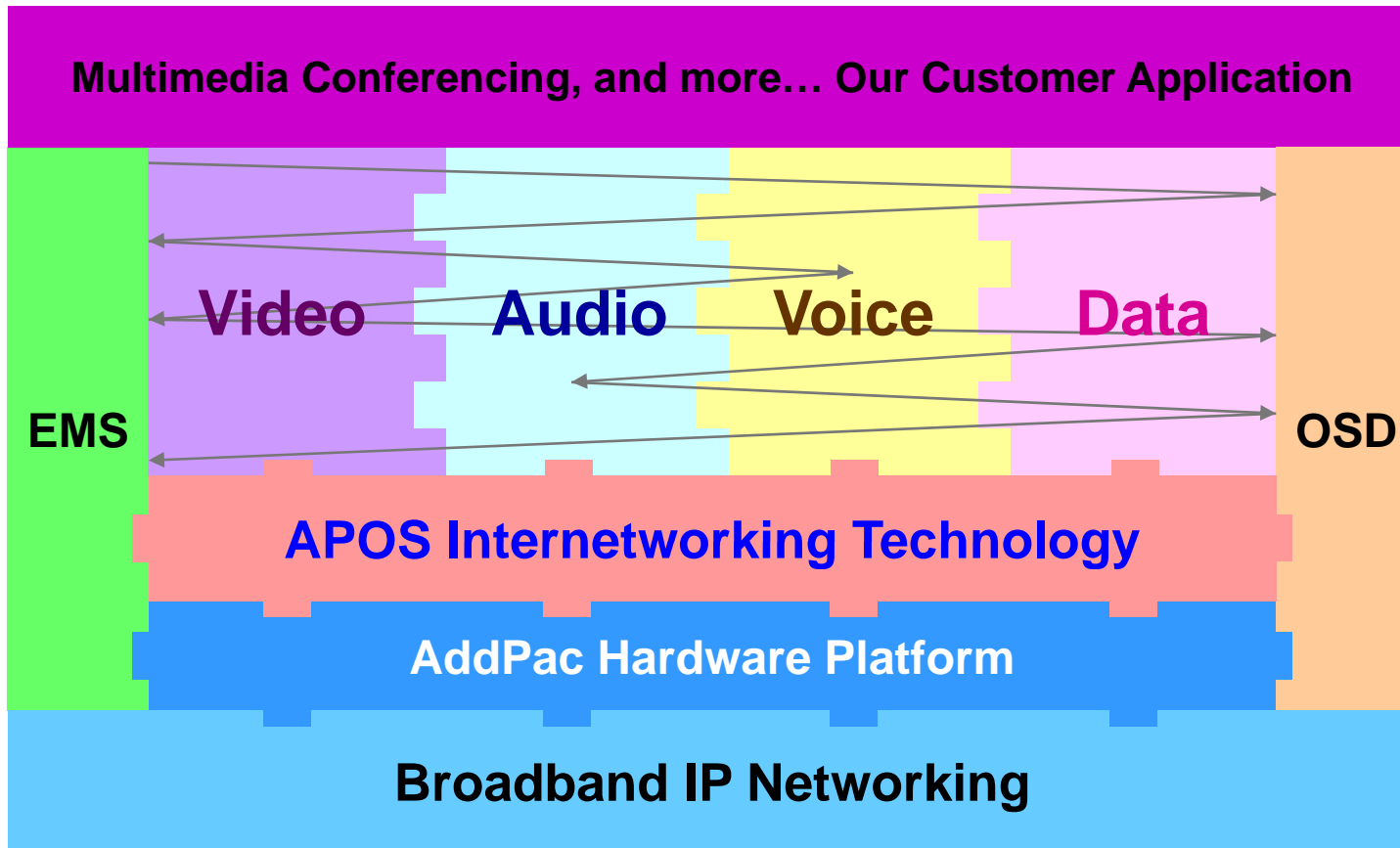
# Product Overview

## AP-ICS100 Emergency IP Call System

- High Performance Emergency IP Call System Solution
- Emergency IP Caller Solution for Indoor Application
- One(1) 10/100Mbps Fast Ethernet Interface Port
- Emergency Call Button with Backlight LED
- Emergency Call Button with Speaker Sound
- Speaker Interface Support for future use (Paging, etc)
- Power over Ethernet (PoE) : Option
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Wall Mount Service
- IoT Alarm Service Application
- Firmware Upgradeable Architecture

# Multimedia Service

AP-ICS100 Emergency IP Call System



- APOS : AddPac Internetworking Operating System
- OSD : On- Screen Display
- EMS : Element Management System

# Hardware Specification

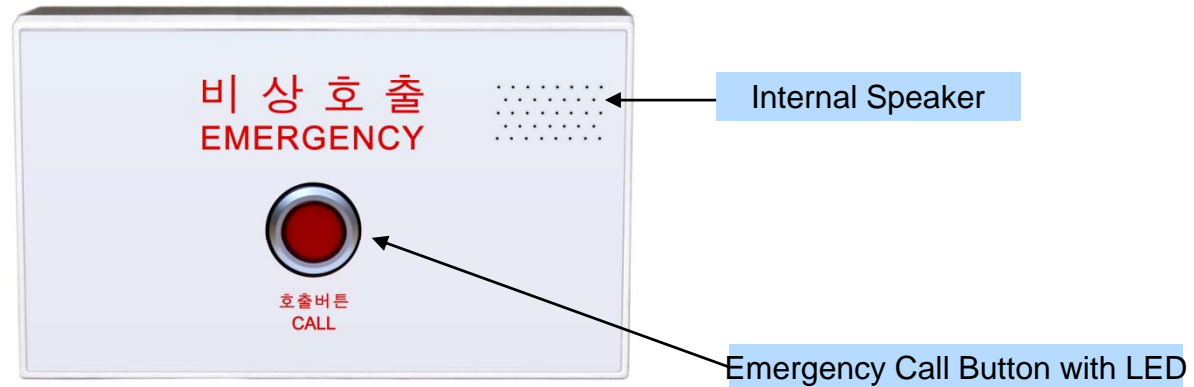
## AP-ICS100 Emergency IP Call System

- RISC Microprocessor Computing Power
- Audio and Voice Interface
  - Internal Speaker
- Emergency Call Button & LAMP
- Network Interface
  - One(1) 10/100Mbps Fast Ethernet
- Power Supply
  - Power over Ethernet (Option)
  - External Power Adaptor

# Hardware Specification

AP-ICS100 Emergency IP Call System

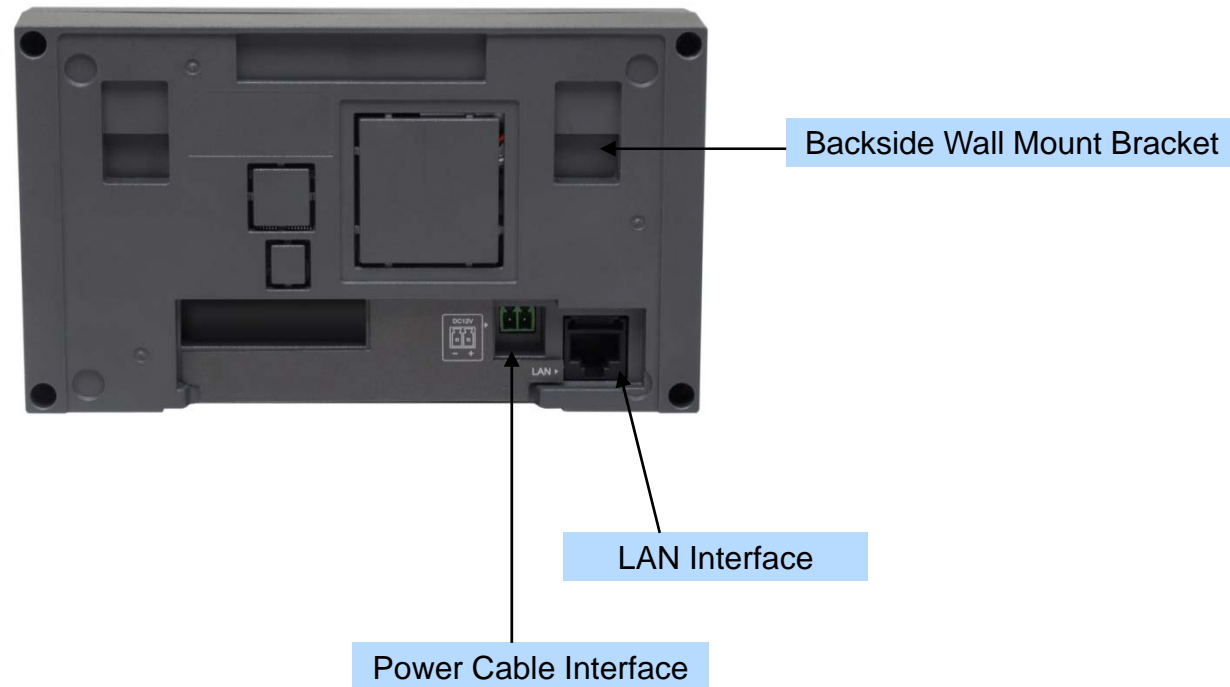
## Front Side



# Hardware Specification

AP-ICS100 Emergency IP Call System

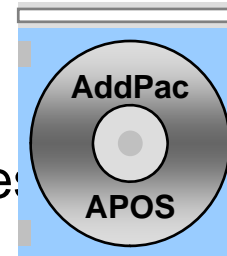
## Back Side



# Software Service

## AP-ICS100 Emergency IP Call System

- Built-in AddPac APOS Internetworking Software
  - Scalability, Functionality, and Stability Features
- Firmware Upgradeable Architecture
- Industry Standard IP based Network Protocol Features





# Network Service and Features

## AP-ICS100 Emergency IP Call System

- Network Managements
  - Standard SNMP Agent (MIB v2) Support
  - Remote Management using Console, Telnet
  - Web based Management using HTTP Server Interface
- Security Functions
  - Standard & Extended IP Access List
  - Enable/Disable for Specific Network Protocols
  - Multi-level User Account Management
  - Auto-disconnect for Telnet/Console Sessions
  - PPP User Authentication Supports (PAP & CHAP)
- Operation & Managements
  - System Performance Analysis for Process, CPU, Connection Interface
  - Debugging, System Auditing, and Diagnostics Support
  - System Booting and Auto-rebooting with Watchdog Feature
  - System Managements with Data Logging
  - IP Traffic Statistics with Accounting

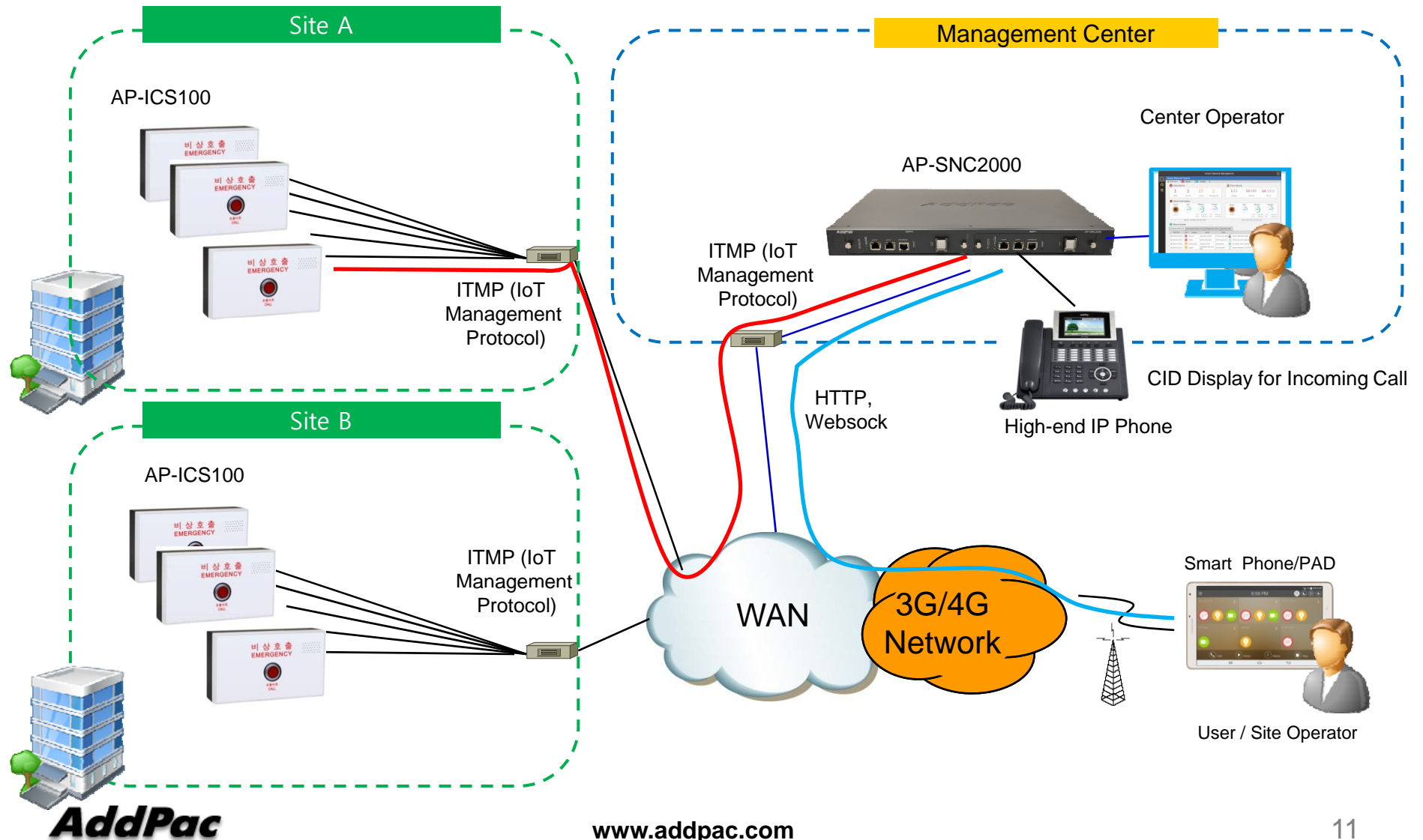
# Network Service and Features

## AP-ICS100 Emergency IP Call System

- Network Managements
  - DHCP Server & Relay Functions
  - Network Address Translation (NAT) Function
  - Port Address Translation (PAT) Function
  - Transparent Bridging (IEEE Standard) Function
    - Spanning Tree Bridging Protocol Support
    - Remote Bridging Support
    - Concurrent Routing and Bridging Support
  - Network time Protocol (NTP) Support

# Emergency Call Center Application

## AP-ICS100 Emergency IP Call System





# AP-SNC2000

## IP Call System Management Server Solution

# Product Overview

- Embedded H/W Platform with Dual CPU Module Slots
- Fault Tolerant and Reliability Service
- Support Large-Scale IP Call System Management
- Support RTSP based Network Video Encoder (Video Codec, IP Camera, etc) Control
- Support RTP based Video Door Phone Control
- Mini Call Manager Function Support for Smart Phone, Tab/PAD registration
- Load Balance using RTSP Redirect Service
- Web Server Function for Smart Tab, Smart Phone Appl.

# Benefits and Features

- Large Scale IP Call System Management Support
- RTP based Video Door Phone Support
- RTSP based Network Video Encoder Support
- TCP/UDP Transport Protocol Support
- Two(2) Module Slots for Embedded System Control Service Module
- Fault Tolerant and High Reliability Service using Dual CPU Module
- Load Balance and Hot-Swap Service
- Compact Size and Low Power Consumption compare with Commercial Server
- IP based Network Protocol Support
- Smart Tab, Smart Phone Appl. Support for IP Call System, Sensor Control, Network Camera, Video Door Phones.
- Mini Call Manager Support for Standard SIP based Smart Phone Application Services

# Hardware Specification

High-end  
RISC

- High-end Programmable RISC Hardware Architecture
- Two(2) Module Slots for Redundancy and Load Balance
- Smart System Network Control Module (AP-SNCM)
  - Network Interface
    - Two(2) 10/100/1000Mbps Gigabit Ethernet
    - One(1) Console Port



# Hardware Specification

High-end  
RISC

AP-SNC2000 Front View



System Network Controller Module

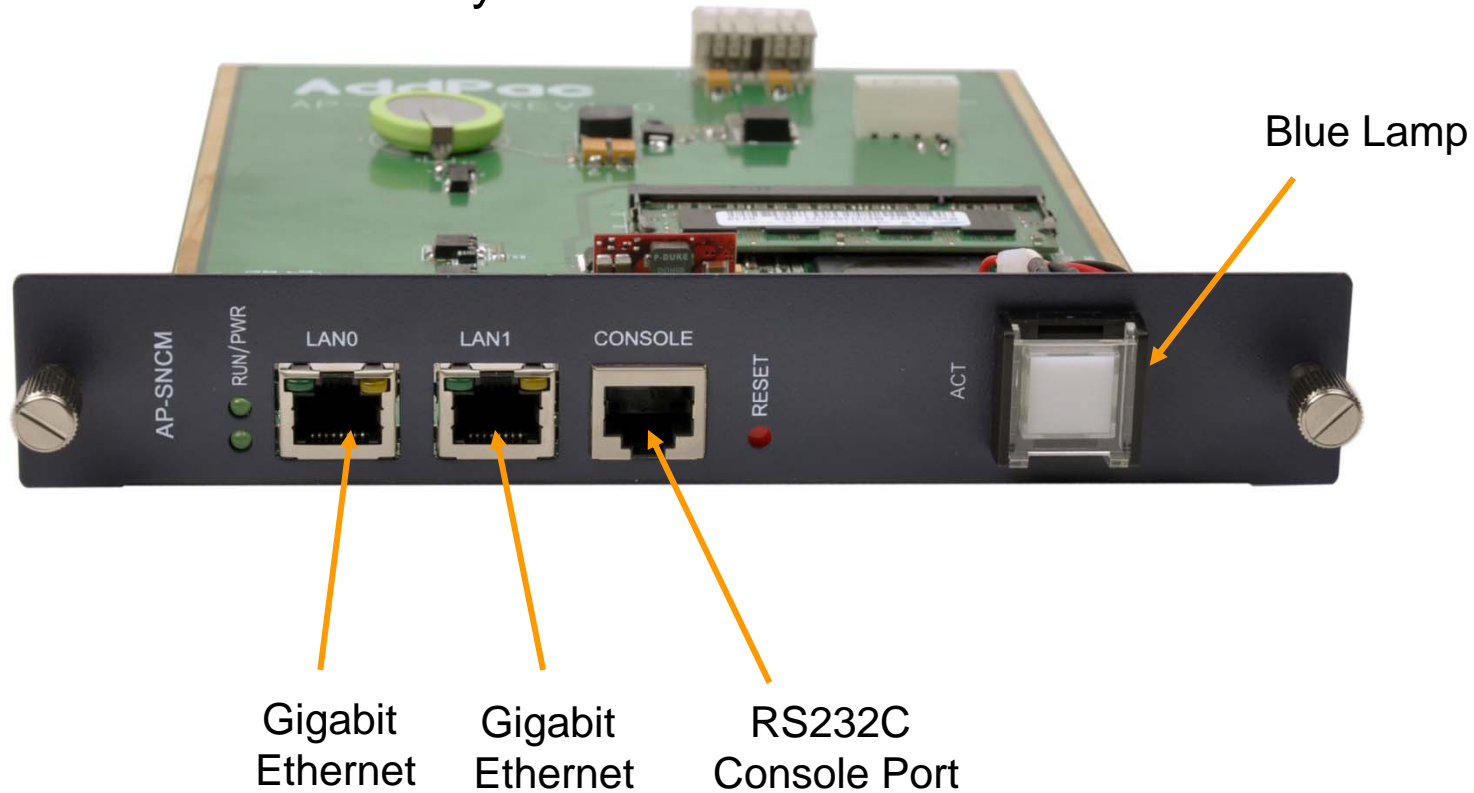




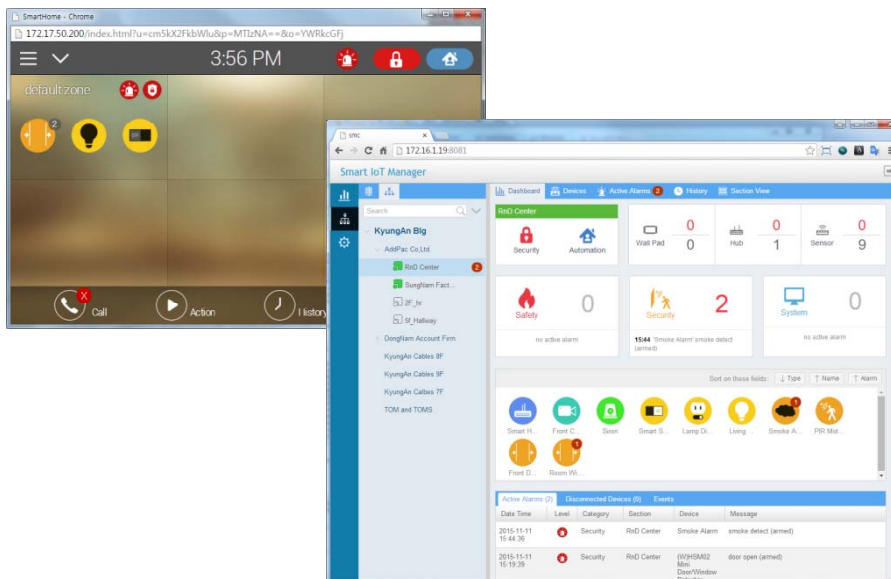
# Hardware Specification

High-end  
RISC

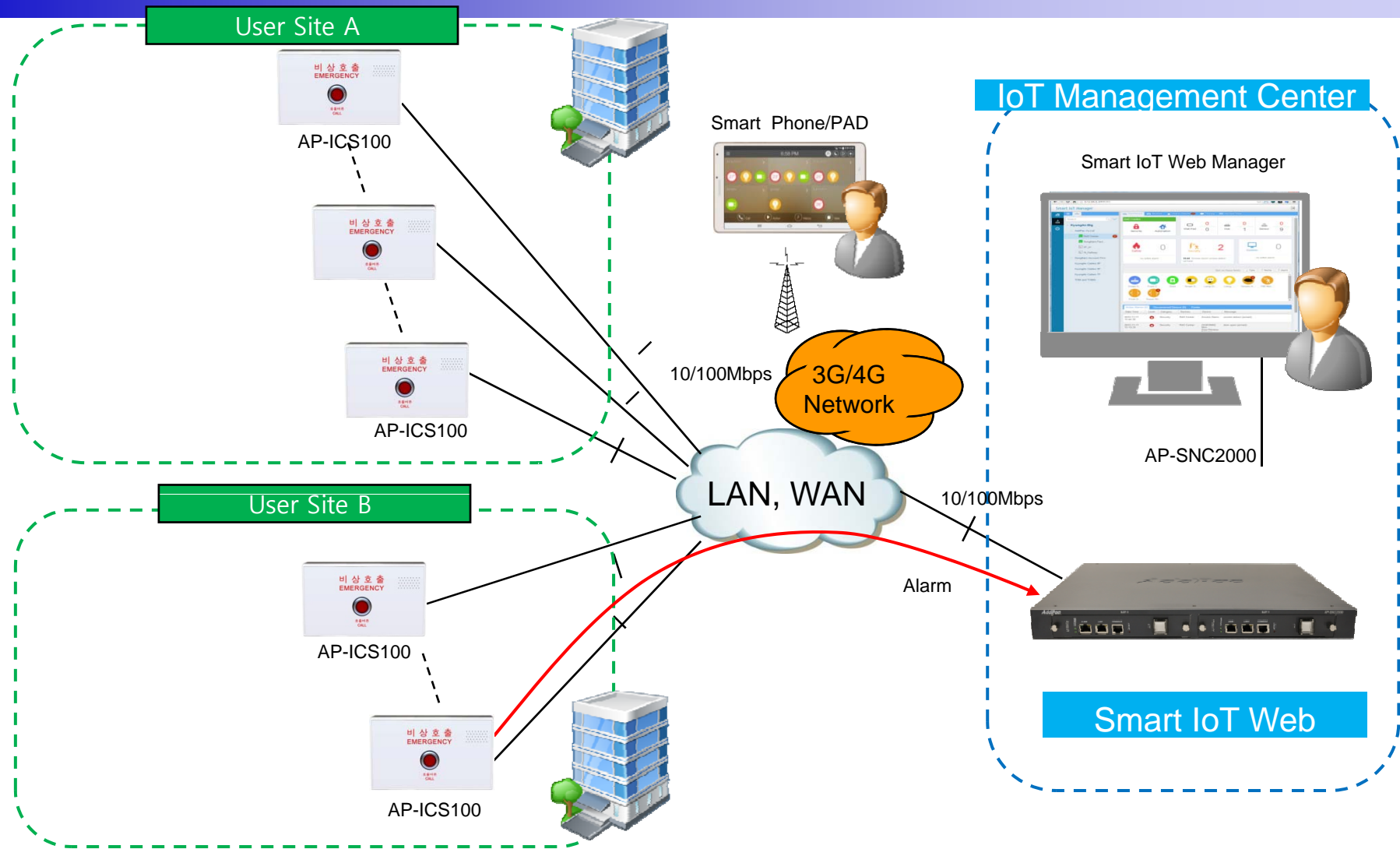
## AP-SNCM System Network Control Module



# AP-SNC2000 Smart IoT Web Manager



# Smart IoT Web Manager Service Diagram





# Overview

# Sensor Controller and Manager Role

- **Smart IoT 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.)

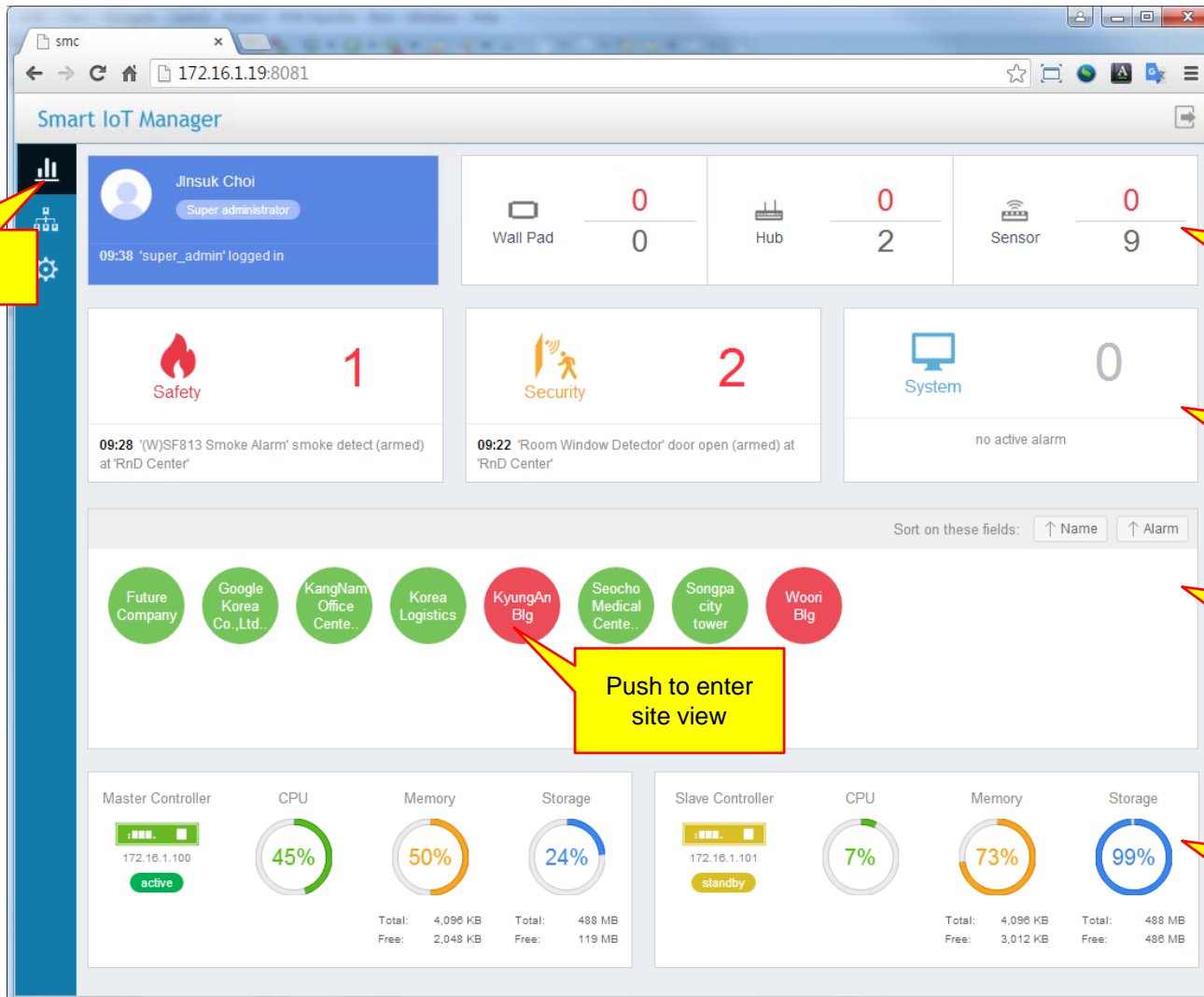
# Hierarchical Administrative Domains

- **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.



# Manager Web UI

# Global Dashboard



Select Global Dashboard

Shows number of abnormal categorized devices

Shows number of active categorized alarms

Shows alarm status of managed sites

Push to enter site view

Shows manager system status



# Site Dashboard

The screenshot shows the Smart IoT Manager interface. On the left, a navigation menu lists sections under 'KyungAn Bldg', including 'RnD Center', 'SungNam Fact...', '2F\_hr', and '5f\_Hallway'. The main dashboard area displays a user profile for Jinsuk Choi, a summary of abnormal categorized devices (Wall Pad: 0, Hub: 2, Sensor: 9), and active categorized alarms (Safety: 1, Security: 1, System: 0). Below this, a section status bar shows '2F\_hr' and '5f\_Hallway' as inactive, while 'RnD Center' and 'SungNam Factory' are active. At the bottom, an 'Active Alarms (2)' table lists recent events.

**Select Site View**

**Section Group**

**Section**

**Shows number of abnormal categorized devices in this site**

**Shows number of active categorized alarms in this site**

**Shows alarm status of sections in this site**

**Shows active alarm list**

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 displays the Smart IoT Manager web interface. The browser address bar shows the URL `172.16.1.19:8081/index.html`. The main navigation bar includes tabs for Dashboard, Sections, Devices, Active Alarms (with a red '2' notification), History, and Operators. The 'Sections' tab is selected. On the left, a sidebar menu shows a tree view under 'KyungAn Bldg' with sub-items: AddPac Co.,Ltd. (with a red '2' notification), DongNam Account Firm, KyungAn Cables 8F, KyungAn Cables 9F, KyungAn Calbes 7F, and TOM and TOMS. The main content area features a table with the following data:

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	-	-	-	-	🔒	🌙

At the bottom of the page, there is a pagination control showing 'Page 1 of 1' and a 'Total: 4' indicator.

# Operator List

The screenshot shows the 'Smart IoT Manager' web interface. The browser address bar displays '172.16.1.19:8081/index.html'. The top navigation bar includes 'Dashboard', 'Sections', 'Devices', 'Active Alarms' (with a red notification badge '2'), 'History', and 'Operators' (which is the active tab). The left sidebar shows a search bar and a tree view under 'KyungAn Bldg' with sub-items: 'AddPac Co.,Ltd.' (with a red notification badge '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 operators.

	Name	ID	Level	Access Group	Email
1	jhkwon	jhkwon	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

# Section Dashboard

Smart IoT Manager

Dashboard | Devices | Active Alarms 2 | History | Section View

RnD Center

Security Automation

Wall Pad 0 Hub 1 Sensor 9

Safety 1 Security 1 System 0

09:28 '(W)SF813 Smoke Alarm' smoke detect (armed)

09:22 'Room Window Detector' door open (armed)

no active alarm

Sort on these fields: ↑ Name ↑ Type ↑ Alarm

(W)127... (W)456... (W)Eco... (W)RGB... (W)SE8... (W)SF8... Front ... Front ...

Room W... Smart ...

Active Alarms (2)		Disconnected Devices (0)		Events	
Date Time	Level	Category	Section	Device	Message
2015-11-12 09:28:33	🔴	Safety	RnD Center	(W)SF813 Smoke Alarm	smoke detect (armed)
2015-11-12 09:22:16	🔴	Security	RnD Center	Room Window Detector	door open (armed)

Select a section

Shows number of abnormal categorized devices in this section

Shows number of active categorized alarms in this section

Shows alarm status of devices in this site

Shows active alarm list

# Device List

The screenshot shows the 'Smart IoT Manager' web interface. The browser address bar displays '172.16.1.19:8081'. The main navigation bar includes 'Dashboard', 'Devices', 'Active Alarms 2', 'History', and 'Section View'. The 'Devices' tab is selected, and the 'Sensor' sub-tab is active. A search bar is present above the device list. The device list table has the following columns: Name, Model, IP address, Version, Sensor, Alarm, and Disconnected. The table content is as follows:

Name	Model	IP address	Version	Sensor	Alarm	Disconnected
RnD Center						
Smart Hub	SHD50_G2	172.16.50.89:60225	8.50.00T	-	-	-
Front Door Detector	HSM02 Mini Do...			-	-	-
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	12722 Smart S...			-	-	-
Smoke Alarm	SF813 Smoke ...			-	1	-

At the bottom of the page, there is a pagination control showing 'Page 1 of 1' and a total count of 'Total: 10'.

# Active Alarms

Select active alarm tab

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

Shows active alarms in this section.

This active alarm can be cleared by acknowledge it.

Page 1 of 1 | Total: 2

# Event History

The screenshot displays the Smart IoT Manager web interface. The browser address bar shows the URL 172.16.1.19:8081. The page title is "Smart IoT Manager". The navigation bar includes "Dashboard", "Devices", "Active Alarms 2", "History", and "Section View". The "History" tab is selected, and a yellow callout box with the text "Select history tab" points to it. Below the navigation bar, there is a search bar and a filter dropdown set to "Latest 1 day". The main content area displays a table of alarm history events. A second yellow callout box with the text "Shows alarm history ." points to the table. The table has columns for "Date Time", "Level", "Category", "Section", "Device", "Message", and "Cleared".

	Date Time	Level	Category	Section	Device	Message	Cleared
1	2015-11-11 15:31:32	Security	RnD Center	Smoke Alarm	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	(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	(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	(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	(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,...	-

# Section View

Select section view

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-ICS100 Emergency IP Call System Hardware
  - AP-ICS100 Emergency IP Call System Main Body
  - RISC Microprocessor with Embedded DSP Architecture
  - Internal Speaker
  - Emergency Call Button with Back Light LED
  - One(1) 10/100Mbps Fast Ethernet
- Built-in APOS Internetworking Software for AP-ICS100
- 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](http://www.addpac.com)



# Thank you!

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