

AP-TAS150 Time & Attendance IP Video Door Phone

High Performance Time & Attendance IP Video Door Phone Solution



AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

Contents

- Product Overview
- Product Highlights
- Hardware Specification
- Software Service
- Video Service & Features
- Audio & Voice Service and Features
- Smart Web Manager
- Time & Attendance Web Manager
- Application Area
- Ordering Information

Product Overview

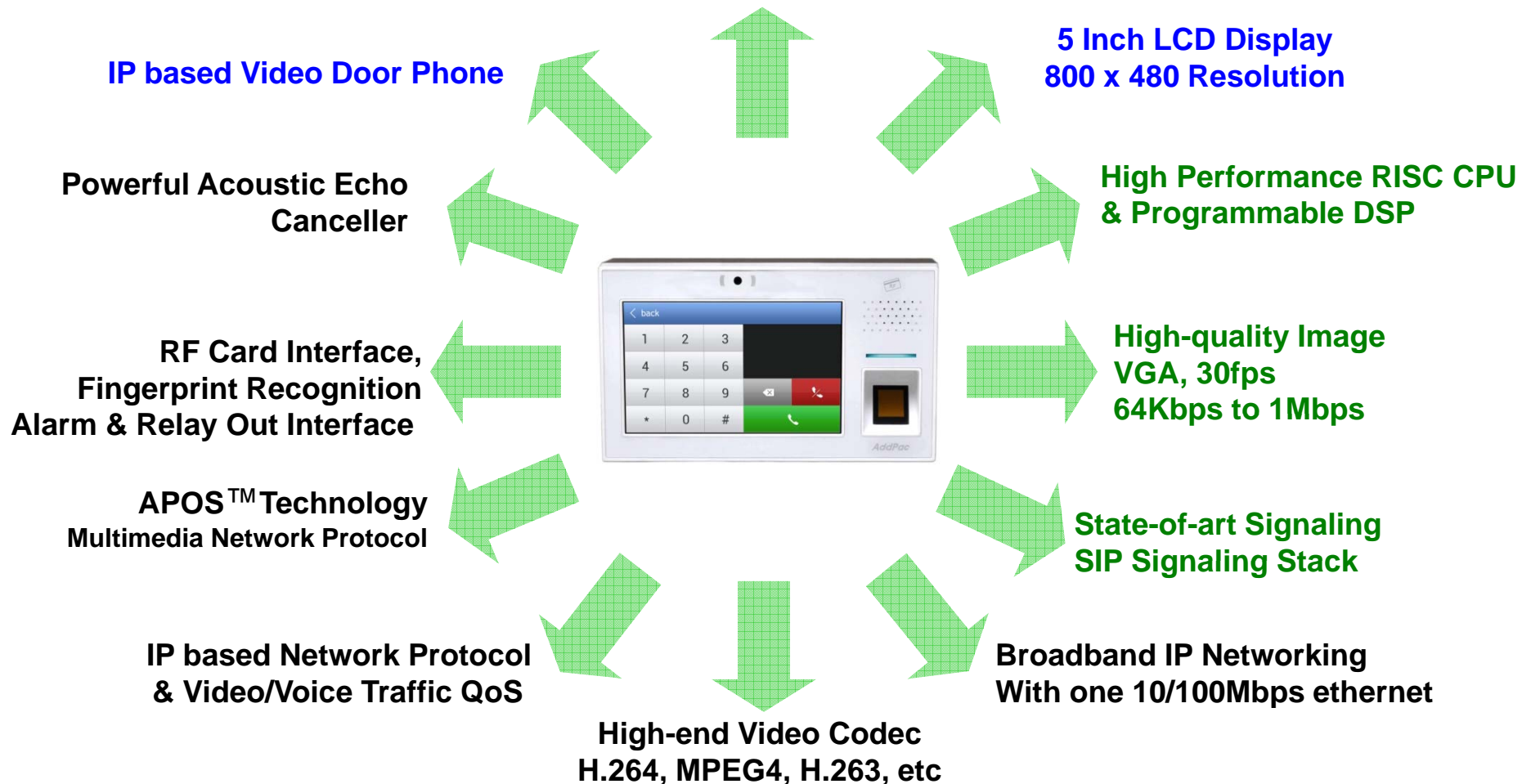
AP-TAS150 Time & Attendance IP Video Door Phone

- Smart Time & Attendance IP Video Door Phone Solution
- High Performance SIP Video Door Phone Solution
- Video Camera, Touch Screen TFT Color LCD, Internal MIC & Speaker
- High Quality 5 Inch LCD, 800 x 480 Video Resolution
- Fingerprint Recognition Support
- RF Card Support
- SIP VoIP Signaling Stack Embedded
- High-performance Voice Codec Support
 - H.264/MPEG/H.263, 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

Product Highlights

AP-TAS150 Time & Attendance IP Video Door Phone

Smart Time & Attendance IP Video Door Phone

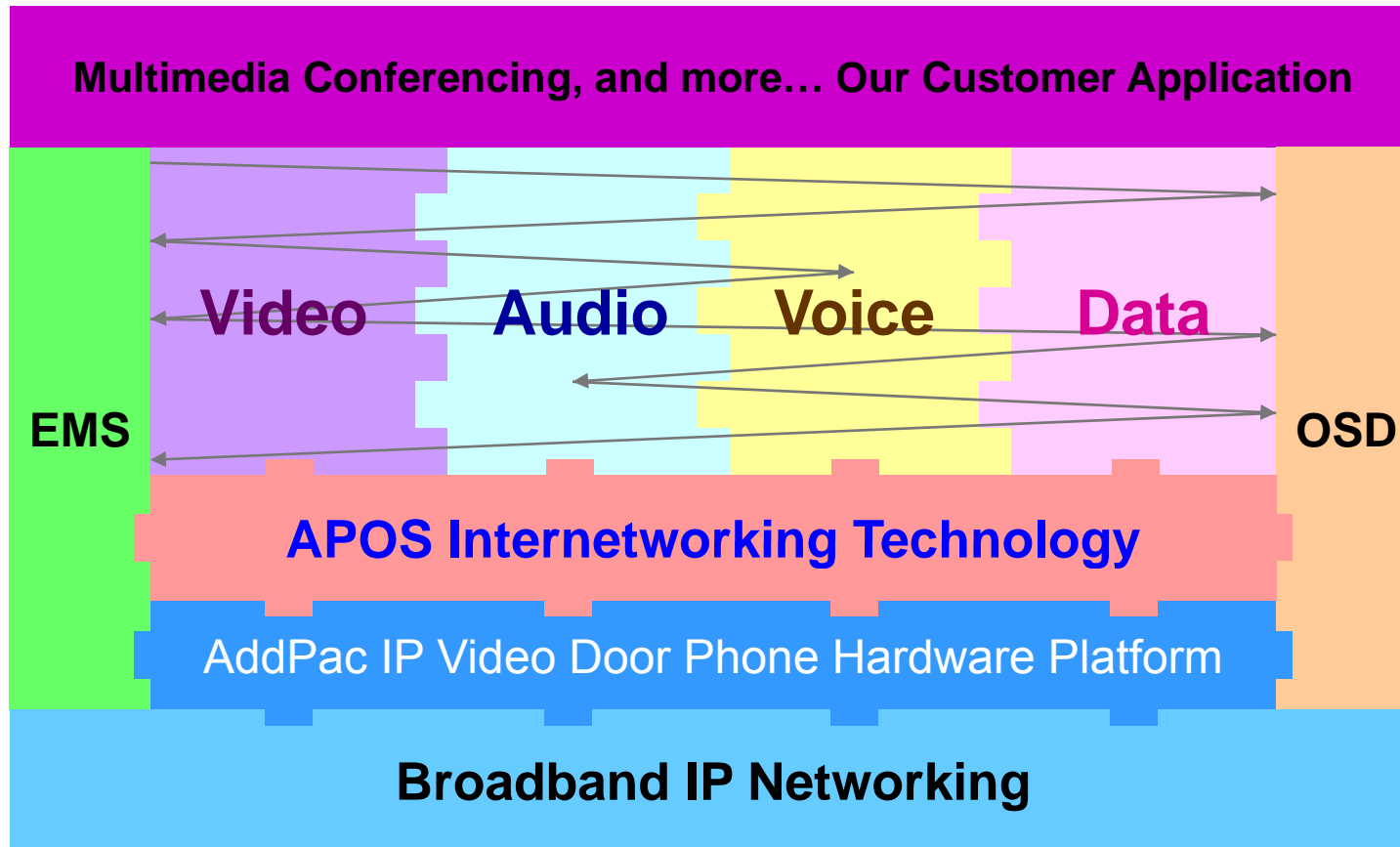


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Multimedia Service

AP-TAS150 Time & Attendance IP Video Door Phone



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

Hardware Specification

AP-TAS150 Time & Attendance IP Video Door Phone

RISC
CPU

High-end
DSP

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
- Video Camera Interface
- TFT Color LCD Interface
 - 5 Inch LCD, 800 x 480 Video Resolution
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
- Fingerprint Recognition Interface
- RF Card Interface
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- Power Supply
 - Power over Ethernet (Option)
 - External Power Supply



Hardware Specification

AP-TAS150 Time & Attendance IP Video Door Phone

RISC
CPU

High-end
DSP

- **Acoustic Echo Canceller**
 - 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)**
 - IEEE802.3af compliant
 - Input voltage range 36V to 57V
 - Short-circuit Protection

Hardware Specification

AP-TAS150 Time & Attendance IP Video Door Phone

RISC
CPU

High-end
DSP

- **LCD Controller**
 - One-Chip Solution for TFT-LCD
 - Hardware On-Screen Display (OSD)
 - Support resolution up to 240xRGBx320
 - Up to 24-bit RGB888 Digital Interface
 - Resize Function (x 1/16, x8)
 - BT.60/BT.66 Digital YCbCr 4:2:2(8-/16-bit) Interface
- **Camera**
 - 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-TAS150 Time & Attendance IP Video Door Phone

RISC
CPU

High-end
DSP

- RF Card Sensor
 - Protocol Supported
 - ISO14443A/B all bit rates
 - > 106,212,424 and 848 kbps
 - Compatible to MiFare Classic
 - ISO15693 all modes
 - > 1.65/6.6 & 26.5 kbps
 - > Uplink 1 & 2 sub-carrier
 - Receiver
 - Rx Sensitivity down to 1mVrms
 - Rx Automatic Gain Control
 - Accept external baseband signal from external circuitry for frame level processing
 - Integrated signal strength indicator (SSI)
 - On-Chip Framing handler for supported standard
 - Transmitter
 - Typical proximity operating distance up to 100mm.
 - Software configurable modulation index
 - Maximum driving current up to 200 mA/PIN @ 5V
 - Accept external baseband signal for RF modulation
 - Wide Transmitter driver supply range from 2.7~7.0V



RF Card Sensor

Hardware Specification

AP-TAS150 Time & Attendance IP Video Door Phone

RISC
CPU

High-end
DSP

- Fingerprint Recognition
 - Sensor Type : Capacitive
 - Resolution(dpi) : 508
 - Sensing Area(mm) : 12.8 x18.0
 - Image Size(pixel) : 256 x 360
 - CPU : 400MHz DSP
 - Flash Memory : 4MB
 - ERR : < 0.1%
 - Enrollment Time : 800msec
 - 1:1 Verification Time : 800msec
 - 1:1000 Identification Time : 970msec
 - Template Size : 256~384bytes (configurable, 384bytes default)
 - Template Capacity : 9,000
 - Encryption : 256bit AES



Fingerprint Recognition

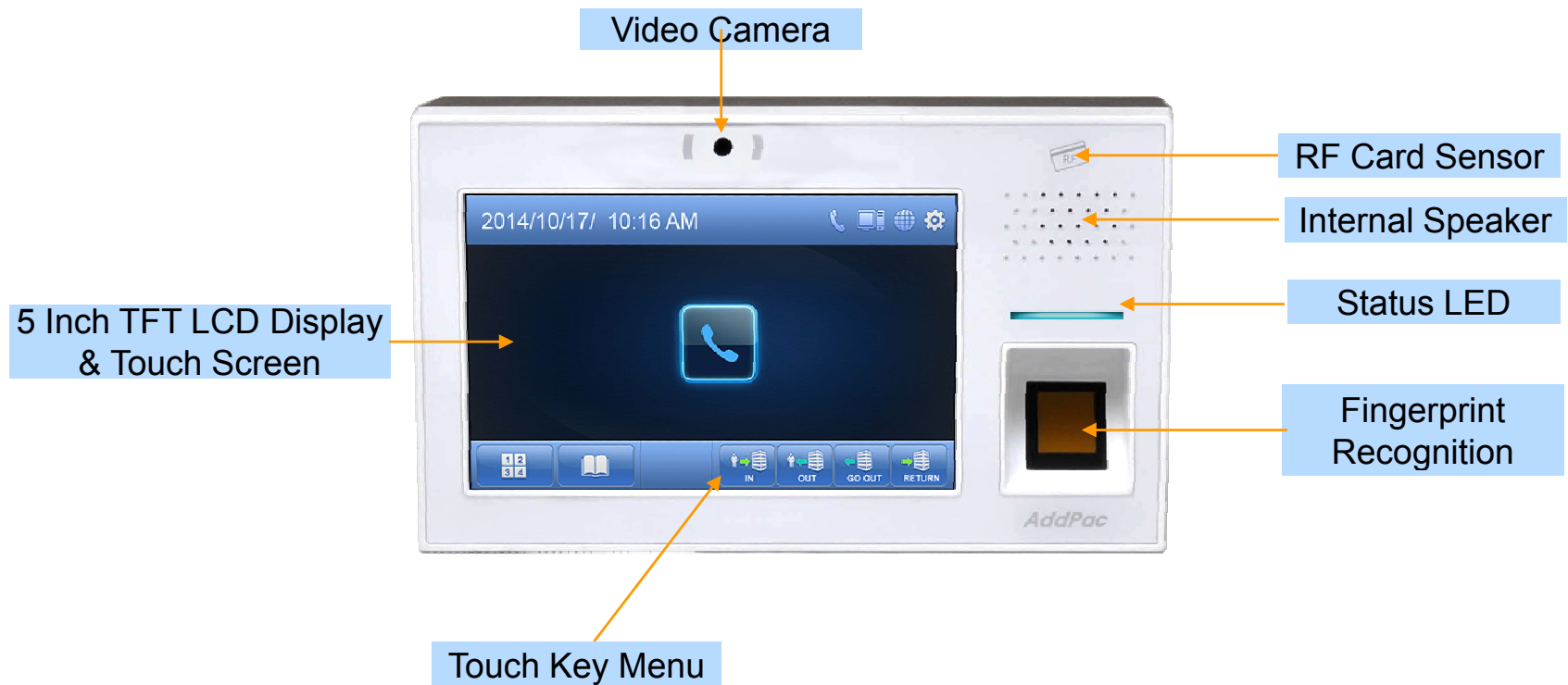
Hardware Specification

AP-TAS150 Time & Attendance IP Video Door Phone

RISC
CPU

High-end
DSP

Front Side



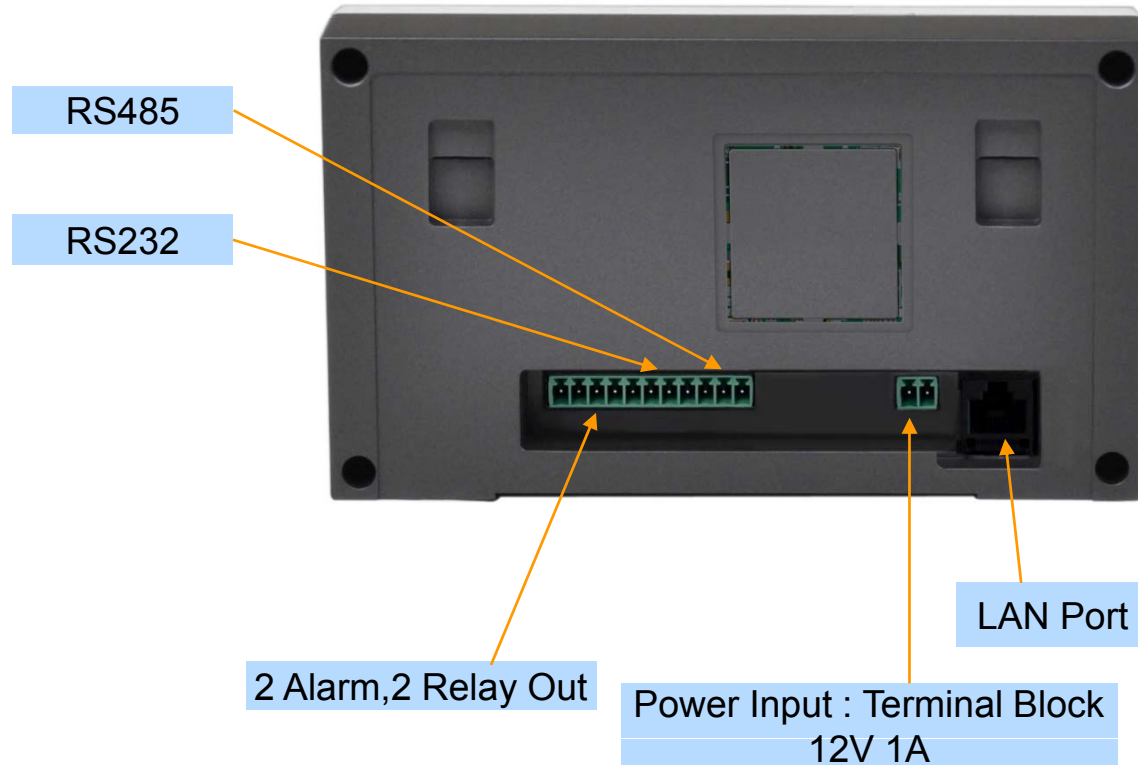
Hardware Specification

AP-TAS150 Time & Attendance IP Video Door Phone

RISC
CPU

High-end
DSP

Back Side



Hardware Specification

AP-TAS150 Time & Attendance IP Video Door Phone

RISC
CPU

High-end
DSP

Power Supply

Terminal Block



12V 1A Power Adaptor

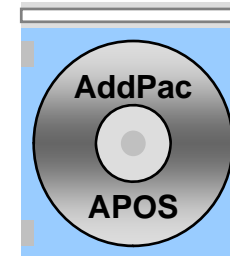
Example



Software Service

AP-TAS150 Time & Attendance IP Video Door Phone

- **Built-in AddPac APOS Internetworking Software**
 - Scalability, Functionality, and Stability Features
 - Video Traffic QoS Control
- **Programmable Video, Audio, and Voice Services**
 - Video Codes, Audio, and Voice Codec
- **Firmware Upgradeable DSP Architecture**
- **OSD (On-screen Display) Function Support**
- **Industry Standard IP based Network Protocol Features**



Video Service and Features

AP-TAS150 Time & Attendance IP Video Door Phone

- **High-performance Video Codec Support**
 - H.264, MPEG4, H.263, etc
- **Image Resolution Support**
 - Local Display : 160 x 120
 - Remote Display : 240 x 160
 - Video Encoding : VGA(640x480), QVGA(320x240)
- **Up to 30fps with VGA Resolution**
- **128Kbps to 1Mbps Operating Video Traffic Bandwidth**
- **Rate Control for Video Traffic QoS**
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- **High-end Error Resilient Against Various Packet Error**

Audio & Voice Service and Features

AP-TAS150 Time & Attendance IP Video Door Phone

- **Audio & Voice Networking Interface**
 - External Audio Line-Out Interface (RCA Connector)
 - External Audio MIC-In Interface (RCA Connector)
- **VoIP based Signaling Protocol Support**
 - SIP Signaling Protocol Stack
- **High-performance Audio & Voice Codec Support**
 - G.711, G.726 Audio Codec
- **Enhanced QoS Management Features for Voice Traffics**



Smart Web Manager (Example)

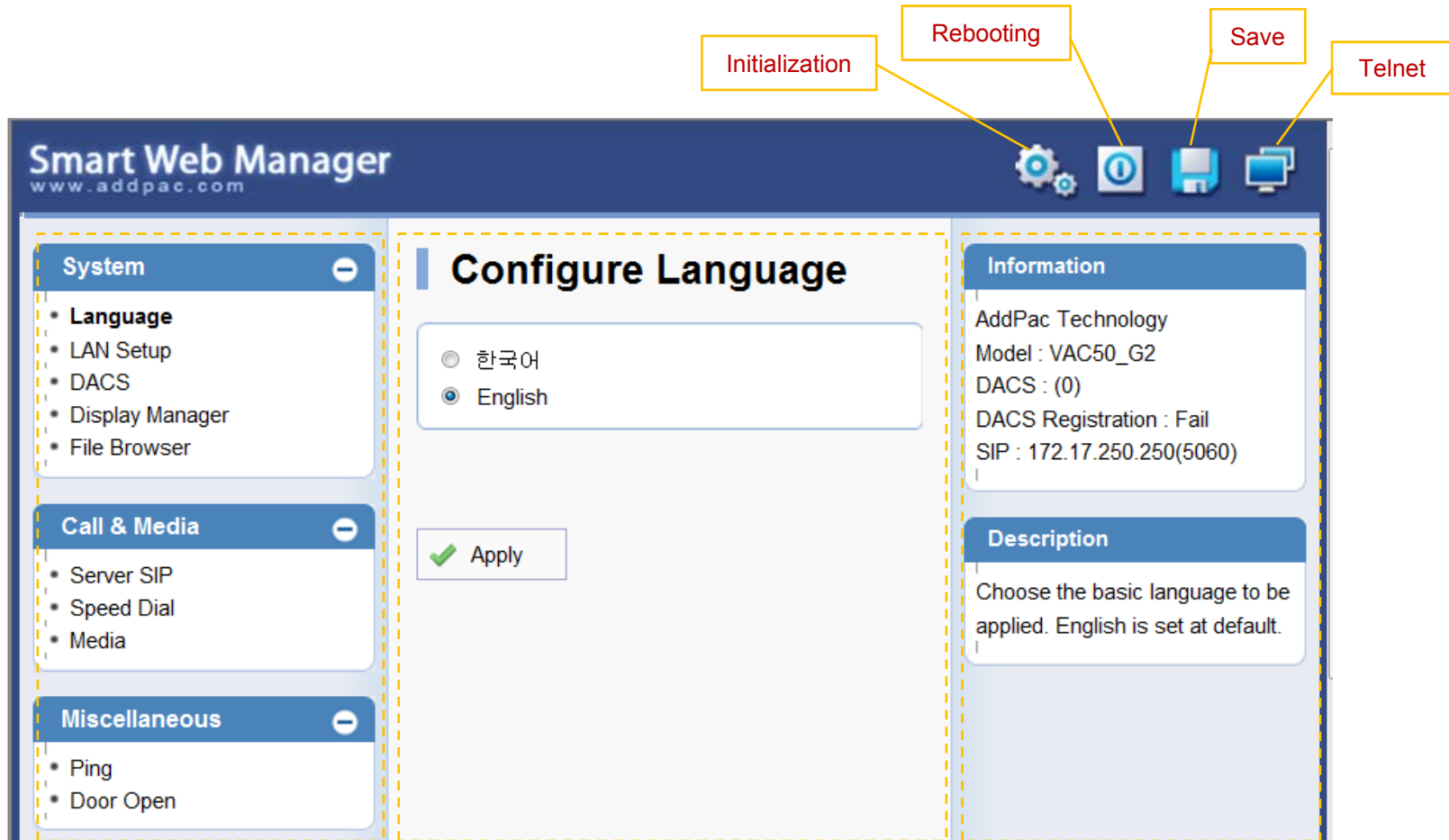
Smart Web Manager

AP-TAS150 Time & Attendance IP Video Door Phone

- Main Screen
- System
 - Language
 - LAN Setup
 - DACS
 - Display
 - File Browser
- SIP Call & Media
 - SIP (Session Initiation Protocol)
 - Speed Dial
 - Media
- Miscellaneous
 - Door Control and Test
 - Network Test

Smart Web Manager : Main Screen

AP-TAS150 Time & Attendance IP Video Door Phone



Menu Tree

Output Screen after
Menu Select

System Information and
Help Message

Smart Web Manager : SIP configuration

AP-TAS150 Time & Attendance IP Video Door Phone

SIP (Session Initiation Protocol)

SIP server check if exist.

SIP Basic Information Display

Telephone Line Number and Password Configuration
Same Information is used when DACS is connected

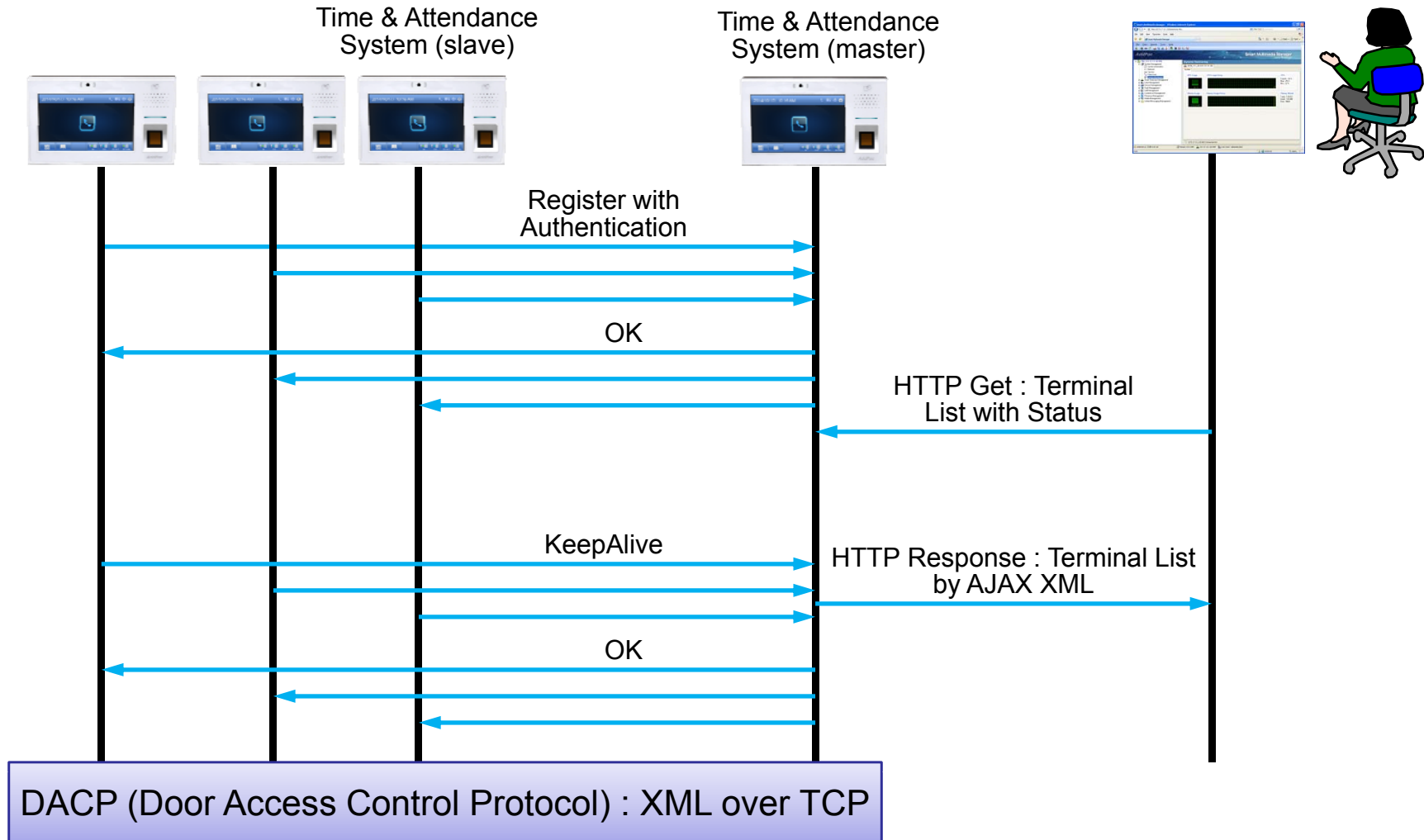
Use SIP Server	<input checked="" type="radio"/> Yes <input type="radio"/> No
Primary SIP Server	<input type="text" value="172.17.250.250"/> <input type="text" value="5060"/> Server address and Port (default 5060)
Secondary SIP Server	<input type="text"/> <input type="text" value="5060"/> Server address and Port (default 5060)
Local Domain Name	<input type="text"/> (SIP userpart of authentication)
SIP Signaling Port	<input type="text" value="5060"/> (default 5060, between 1 to 65535)
Register Expiration	<input type="text" value="60"/> (in seconds, default 60, between 10 to 86400)
Session Re-Fresh	<input checked="" type="radio"/> INVITE <input type="radio"/> UPDATE
Session Expire Time	<input type="text" value="1800"/> (in seconds, default 1800, between 30 to 86400, 0 = disable)
Min-SE	<input type="text" value="1800"/> (in seconds, default 1800, between 30 to 86400)
Extension	<input type="text" value="1020"/> <input type="text"/> Extension Number, Password



Time & Attendance System Message Flow

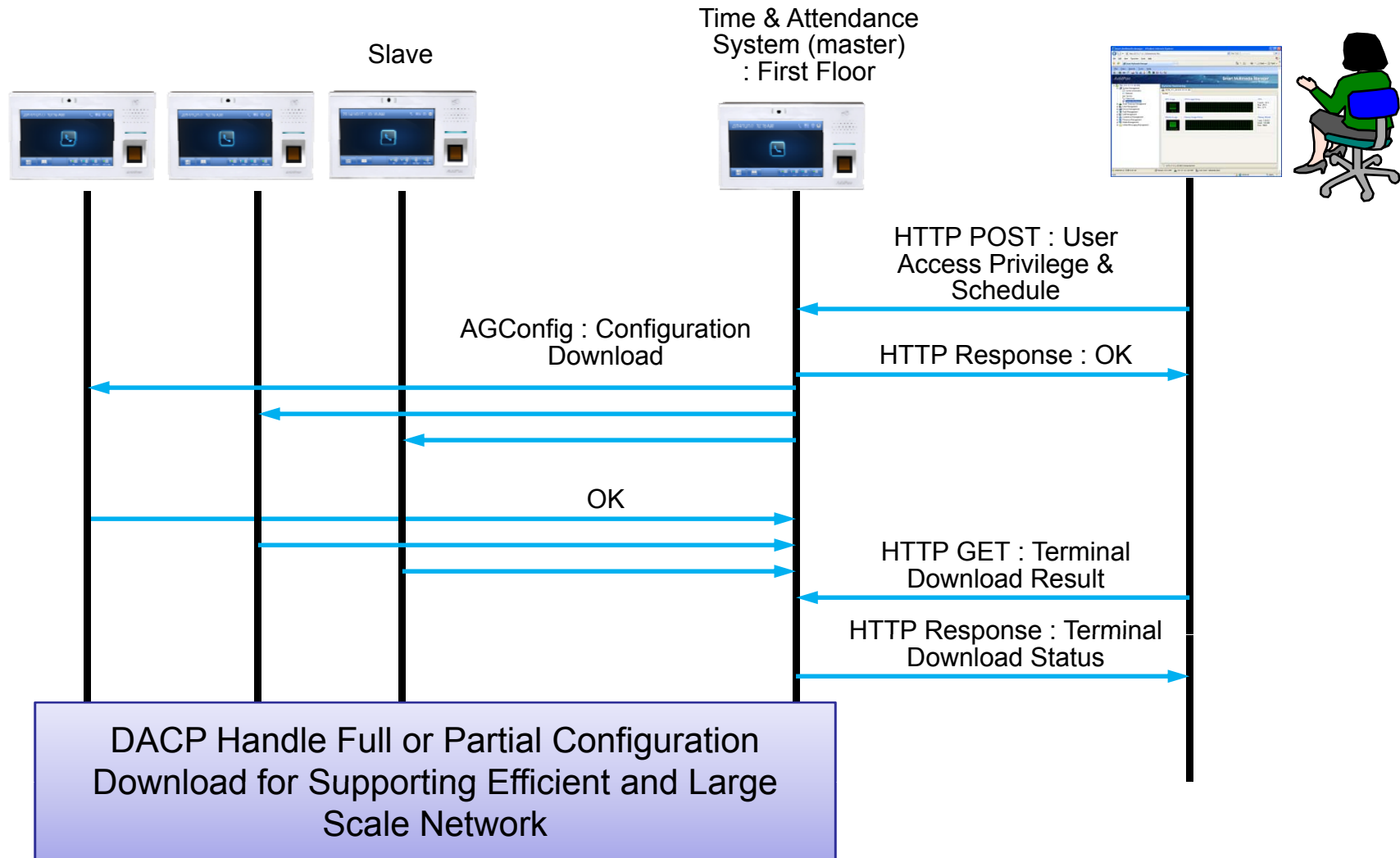
Time & Attendance System Message Flow

Registration and KeepAlive



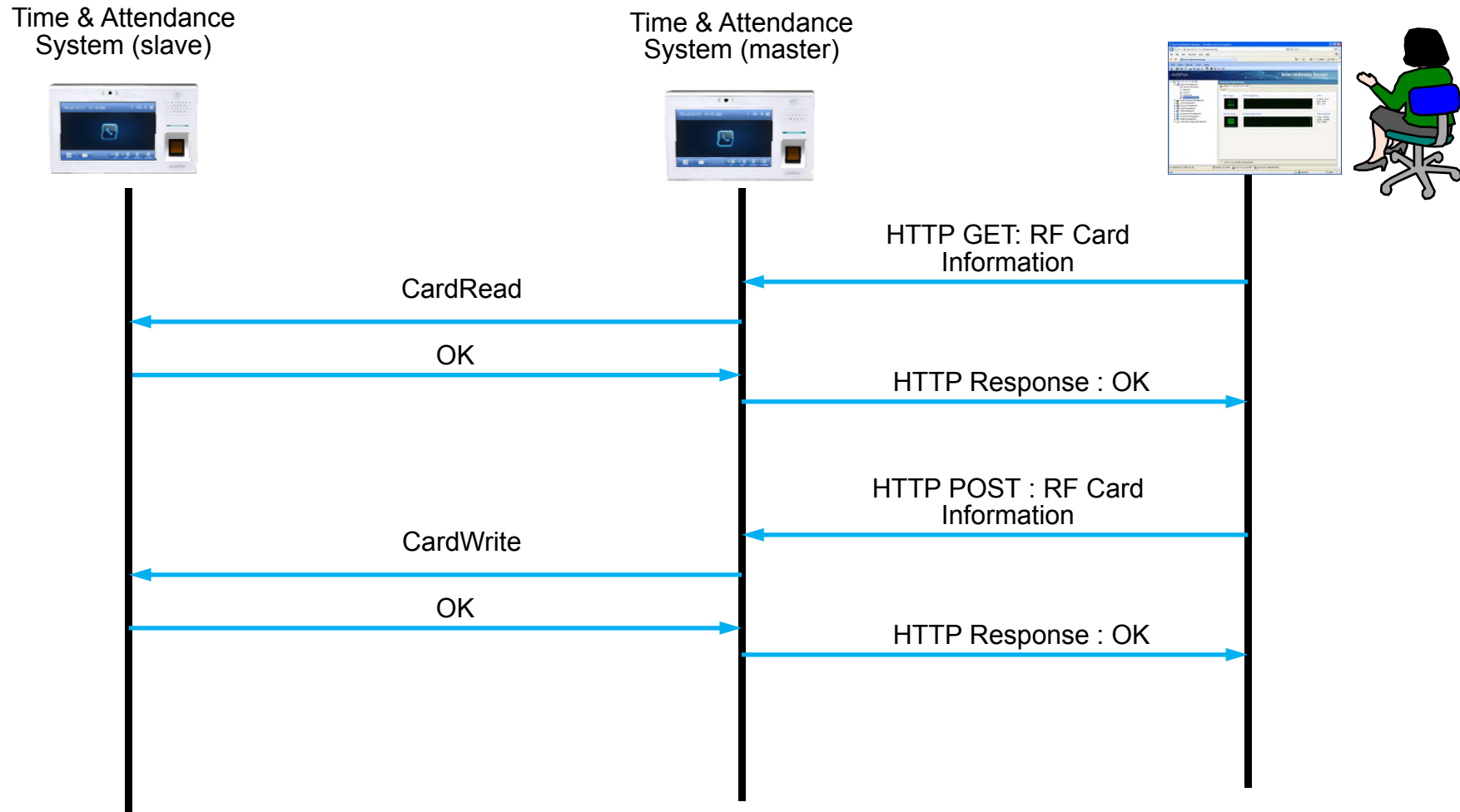
Time & Attendance System Message Flow

Access Privilege and Schedule Download



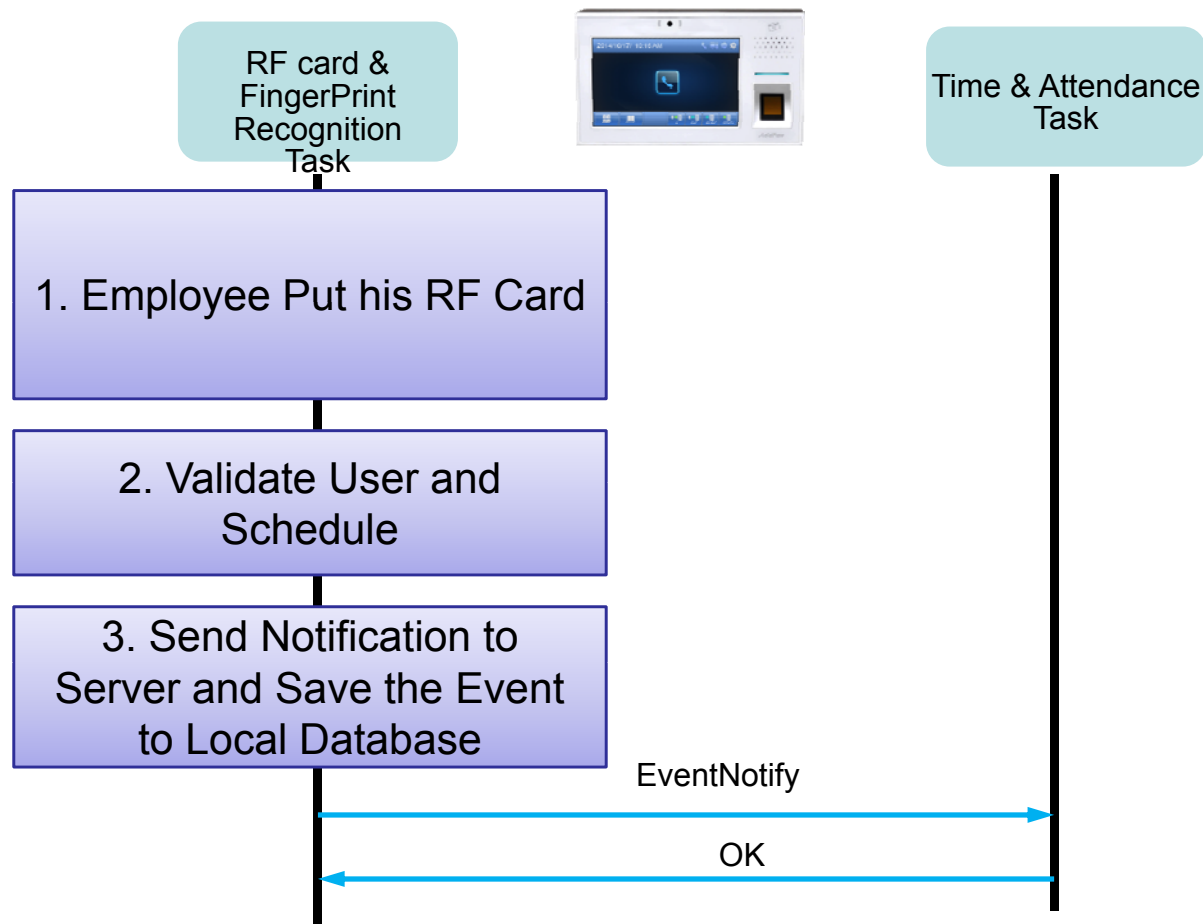
Time & Attendance System Message Flow

RF Card Read/Write and Registration



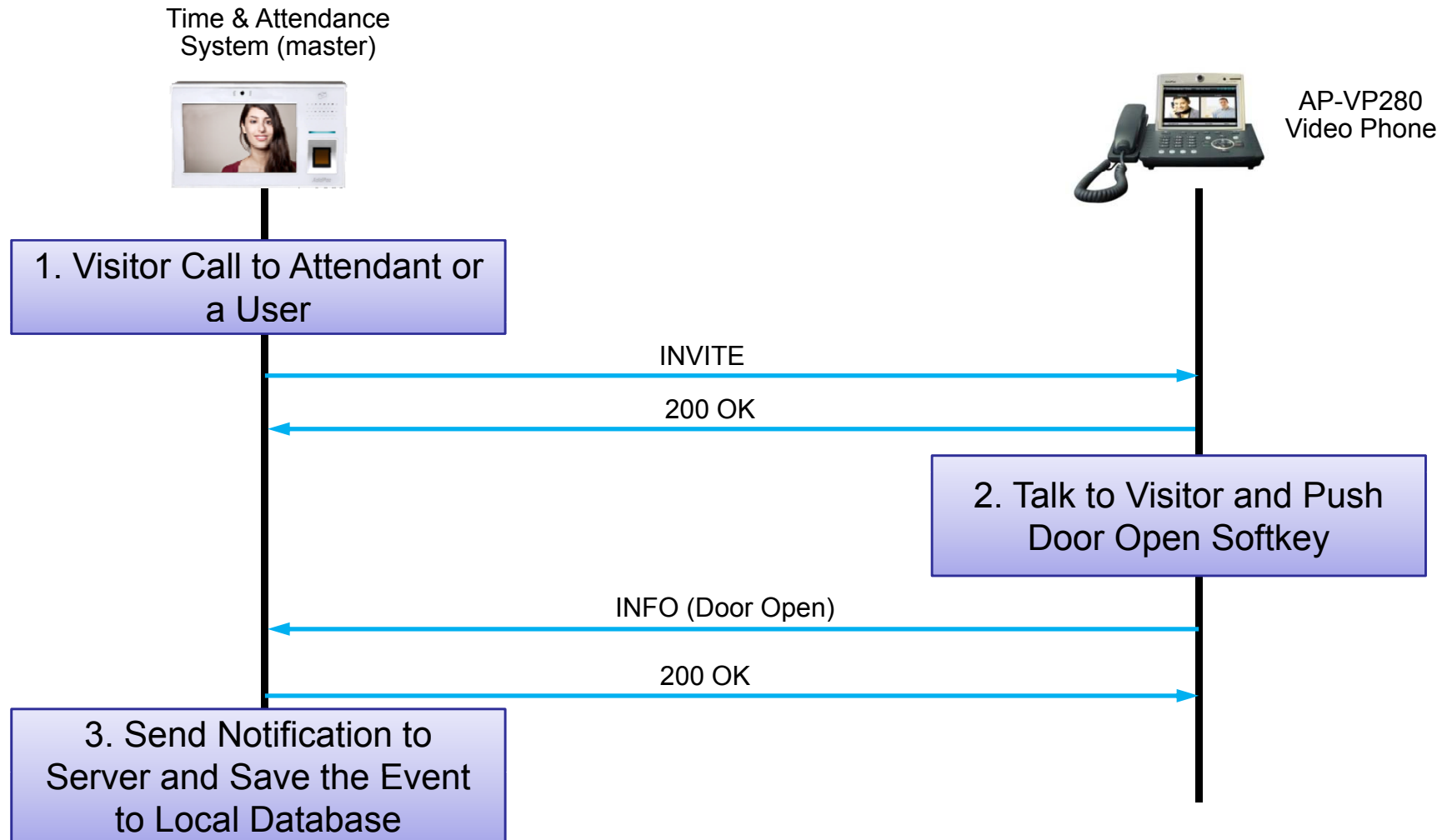
Time & Attendance System Message Flow

Door Open by RF Card



Time & Attendance System Message Flow

Door Open by Other Terminal





Door Access Control Manager for AP-TAS150

DACS (Door Access Control System)

Login page

The screenshot shows a web browser window with the URL `172.16.1.19/index.php`. The page title is "Door Access Control System". The main content area features the "AddPac Door Access Control System" logo and a login form with fields for "Administrator ID" (containing "root") and "Password" (masked with dots). Below the form are two buttons: "Door Access Control Manager" and "Time and Attendance Manager".

Annotations on the screenshot include:

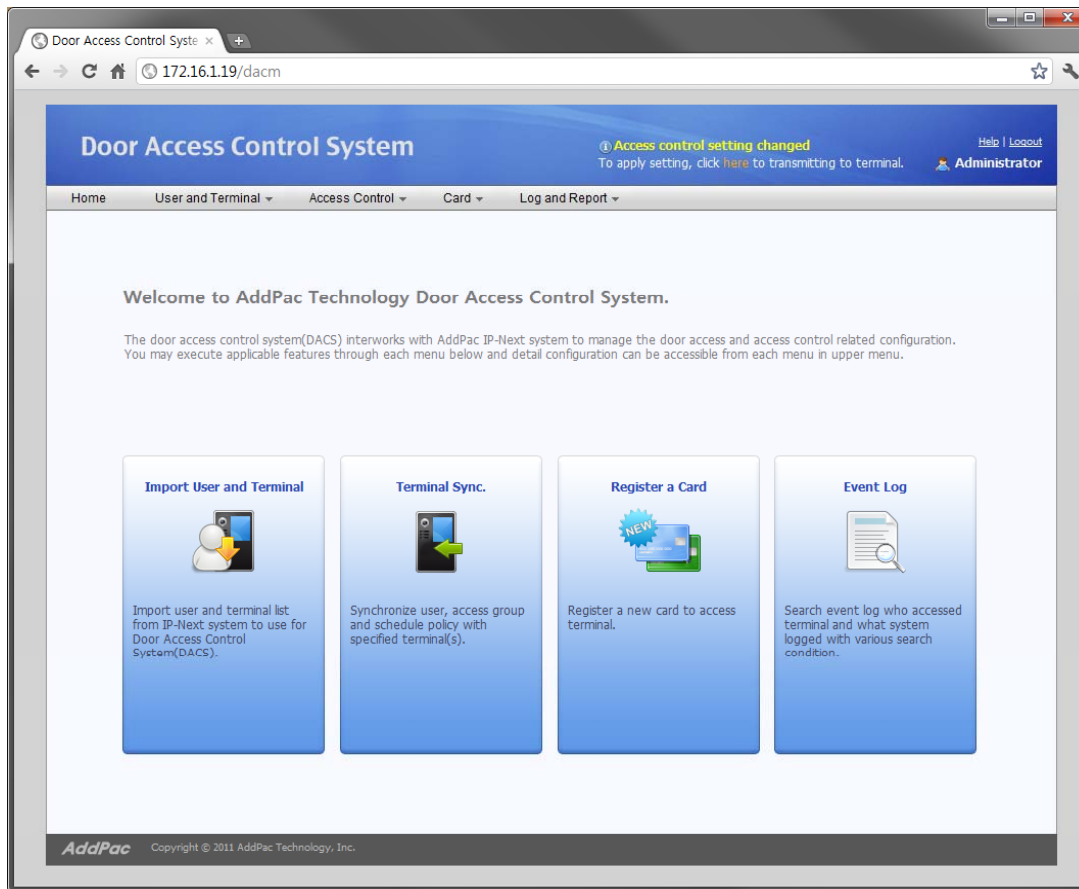
- A yellow box at the top center containing the text: "You can log on 'Door Access Control Manager' or 'Time and Attendance Manager' if license is valid and administrator have authentication right". A yellow arrow points from this box to the login form.
- A blue box on the left containing the text: "Log on to Door Access Control Management". A blue arrow points from this box to the "Door Access Control Manager" button.
- A blue box on the right containing the text: "Log on to Time and Attendance Management". A blue arrow points from this box to the "Time and Attendance Manager" button.



Door Access Control Web Manager Software (DACM)

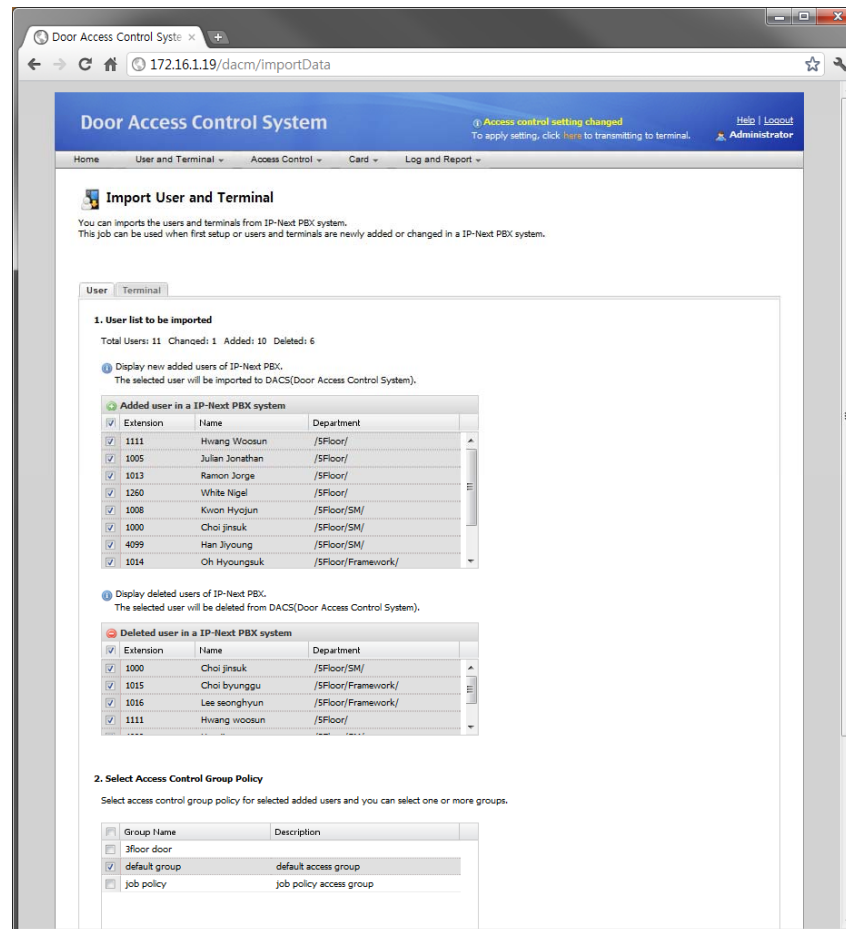
DACM (Door Access Control Manager)

Main Web Page



DACM (Door Access Control Manager)

Import User and Terminal



DACM (Door Access Control Manager)

User List

User List

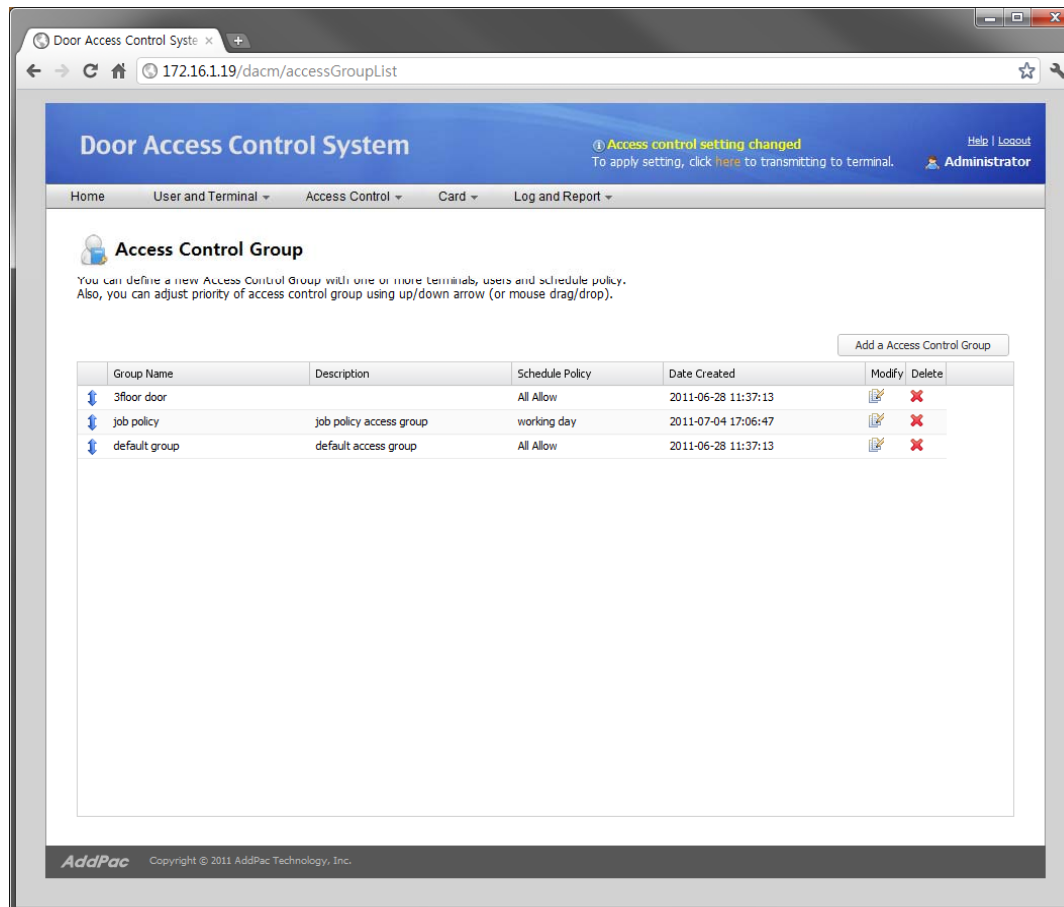
The screenshot shows a web browser window displaying the 'Door Access Control System' user list. The page title is 'Door Access Control System' and the URL is '172.16.1.19/dacm/userList'. A notification at the top right states 'Access control setting changed' with a link to 'To apply setting, click here to transmitting to terminal.' 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 menu 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.'

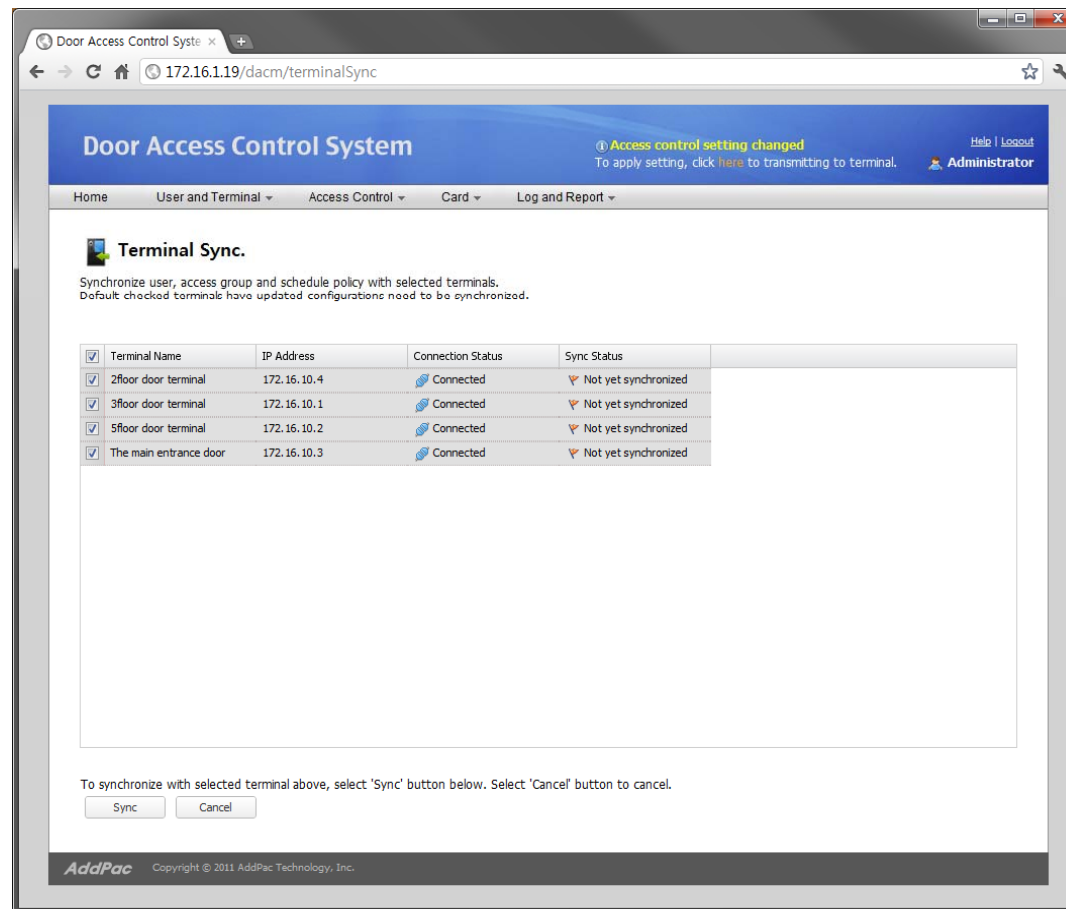
DACM (Door Access Control Manager)

Access Control Group Management



DACM (Door Access Control Manager)

Configuration Download to Terminal



DACM (Door Access Control Manager)

RF Card Management

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

Card List

Display registered card list. Also, you can register a new card or modify/delete selected card(s).

Search List: All card Search

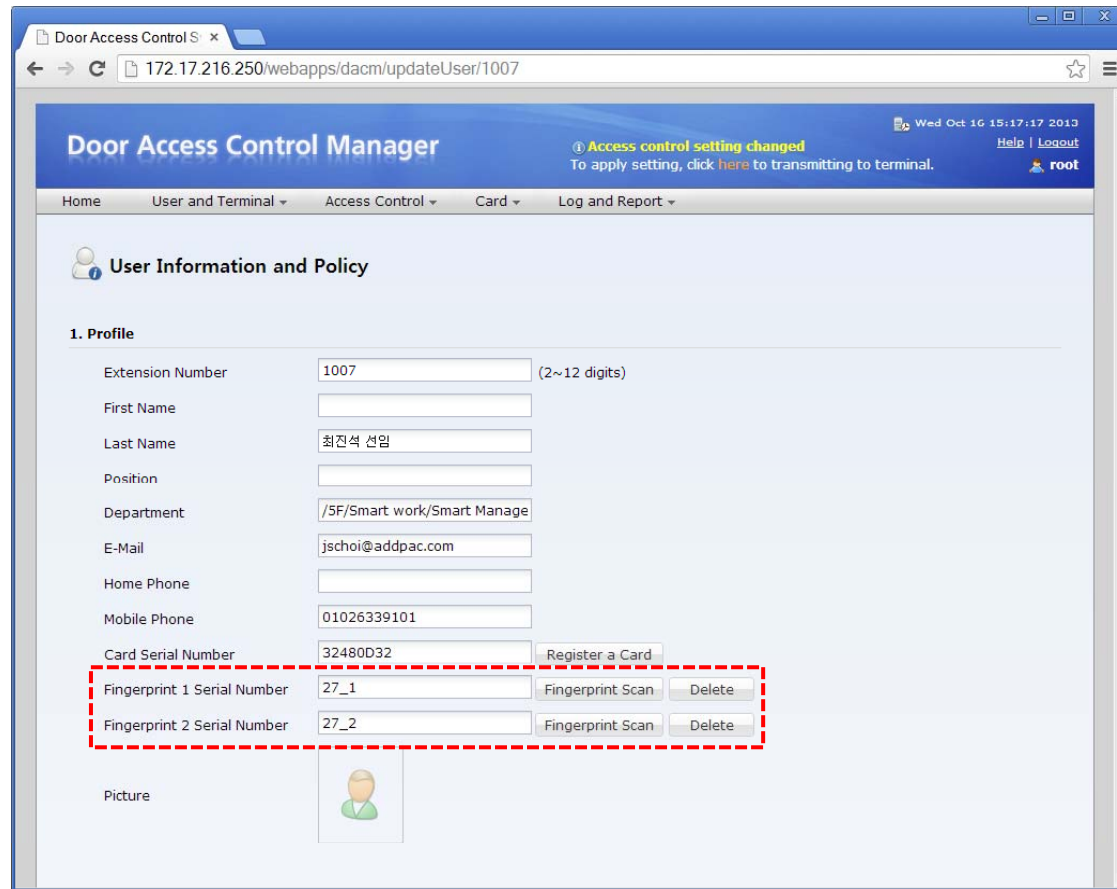
Serial Number	Extension	Username	Status	Description	Date Created	Modify	Delete
1 4000238	1008	Kwon hyojun	<input checked="" type="checkbox"/> Specified	Temporary cards are issued.	2011-07-08 15:59:03		
2 123456789	1008	Kwon hyojun	<input type="checkbox"/> Unspecified	Temporary cards are issued.	2011-07-22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

Page 1 of 1 Total: 2

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DACM (Door Access Control Manager)

Fingerprint Management




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 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.

	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

At the bottom of the page, there is a pagination control showing 'Page 1 of 1' and a 'Total: 7' indicator. The footer contains the 'AddPac' logo and 'Copyright © 2011 AddPac Technology, Inc.'



Time Attendance Web Manager Software (TAAM)

TAAM (Time and Attendance Manager)

Daily Attendance Rules

shows In (office-in time), Out (office-out time) and Regular working time, for example 9 hours

Name	Description	In	Out	Regular Hour	Date Created
1 default rule	default daily rule	09:00	18:00	9 hr	
2 Factory First Rule	Factory first daily work rule	08:00	20:00	12 hr	2011-11-07 14:32:2
3 Factory Second Rule	Factory second daily work r...	20:00	08:00	9 hr	2011-11-07 14:33:1

This day rule can be used in the monthly rule for sunday through saturday each.

TAAM (Time and Attendance Manager)

Monthly Attendance Rules

Door Access Control System

172.16.1.19/dacm/monthlyWorkRuleList

Monthly Attendance Rule List

Shows list of monthly based attendance rule for time(week, full day off, national holiday)

Name	Description
1 Default Rule	Default attendance rule
2 Head Office Rule	Head office work monthly rule
3 Factory First Rule	Factory first work monthly rule
4 Factory Second Rule	Factory second work monthly rule

1. Monthly Rule

Defines day off or work day from starting first week to sixth week of the month. Each day of the week can be applied to daily-based attendance rule.

Rule Name*

Description

1st week: Sun Mon Tue Wed Thu Fri Sat

2nd week: Sun Mon Tue Wed Thu Fri Sat

3rd week: Sun Mon Tue Wed Thu Fri Sat

4th week: Sun Mon Tue Wed Thu Fri Sat

5th week: Sun Mon Tue Wed Thu Fri Sat

6th week: Sun Mon Tue Wed Thu Fri Sat

*Clicked: Full Day Off *Non-Clicked: Work Day

Sunday: N/A

Monday: N/A

Tuesday: N/A

Wednesday: N/A

Thursday: N/A

Friday: N/A

Saturday: N/A

2. Holiday Rule

Defines rule for non-working day such as national holiday, user defined holiday in the day template.

Day Template List	
Name	Description
public holiday	public holiday description
company holiday	company holiday description

List of applied Day Templates	
Name	Description

Annotations:

- Day of week rule from 1st week to 6th week and grey color means full day off, other color is work day
- You can specify daily rule from the list for sunday through saturday

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TAAM (Time and Attendance Manager)

Business Trip and Vacation

The screenshot shows the 'Business Trip and Vacation' section of the TAAM application. It includes a table with two entries and three callout boxes explaining specific features.

Name	Description	User	Type	Start	End	Date Created	Modify	Delete
1 Rusia Business...	Presentation for Ne...	Total 2 includin...	Business trip	2011-09...	2011-10...			
2 Summer Vacati...			Vacation	2011-08...	2011-08...	2011-10-12 07:...		

one or more user can be specified for each business trip and vacation rule.

Extension user will be not processed as absentee between start day and end day, also log as user-defined time attendance code

user-defined time and attendance code for attendance report or log correction

TAAM (Time and Attendance Manager)

Time and Attendance Codes

The screenshot shows a web browser window with the URL `172.16.1.19/dacm/timeAttendanceCodeList`. The page title is "Time and Attendance Manager" and the user is logged in as "root". The main content area is titled "Time and Attendance Codes" and includes a description: "Shows list of user defined attendance code which can be used as correction in the attendance report." There is an "Add a Code" button. A table lists the codes, with columns for Name, Description, Date Created, Modify, and Delete. A yellow dashed box highlights the first ten rows of the table. Three callout boxes provide additional information: one points to the first three rows, another points to the 'Delete' column, and a third points to the entire table.

Name	Description	Date Created	Modify	Delete
1 Unknown				
2 Not yet defined				
3 Late In				
4 Early Out				
5 Absence				
6 Late In/Early Out				
7 Normal				
8 Vacation				
9 Business trip				
10 Sick Leave	Sick Leave code by admin	2011-11-07 14:44:15		

system built-in time and attendance code is provided as default, for example late-in, early-out and absence

show built-in and user-defined time and attendance code which will be used in the attendance report and log correction

only user-define code can be removed if needed

TAAM (Time and Attendance Manager)

Delivery Policy for Attendance Report

1. Report Policy
Defines email delivery policy for manager or each user to receive daily, monthly attendance report.

Send reports to the particular person every day at 08:00

Send reports to the particular person at specific day (28) of every month. 08:00

User List
Search Field: Last Name

Name	Department	Extension
batista Eike	/2F/	1000
Stefan Persson	/2F/	1016

Applied user list

Name	Department	Extension
batista Eike	/2F/	1000
Stefan Persson	/2F/	1016

Send personal monthly report to each user.

2. SMTP Server
You can specify sending email server(SMTP) configurations.

SMTP Server: 61.33.161.2

Sender Email Address: dacs_admin@company.com

Server Authentication Required

User ID: admin

Password: ****

To apply this features, select 'Apply' or 'Cancel'

Apply Cancel

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manager level users (extension) list who want to receive daily and monthly attendance report

if checked, system will send personal attendance report of each month to extension user

TAAM (Time and Attendance Manager)

Attendance Report by Date

Time and Attendance Manager

Home | Policy | Trip and Vacation | Report Configuration | Report View

Attendance Report by Date
Shows attendance log for each user and summary information with specified day.

Select Date : 2011-10-19
Select Department : All

Attendance Report by Date (2011-10-19)

Type

Type	Count
Late In	1
Early Out	1
Normal	10

	Username	Department	In	Out	Overtime	Office Hc	Result	Correction Ti	Correct
1	Eike batista	smart management팀	08:05:00	18:05:00	0 hr	10:0...	Normal		
2	Bill Gates	multimedia팀	09:15:00	17:15:00	0 hr	08:0...	Normal	2011-11-...	
3	Larry Ellison	multimedia팀	09:00:00	18:00:00	0 hr	09:0...	Normal		
4	karl Albrecht	smart framework팀	09:00:00	17:00:00	0 hr	08:0...	Early Out		
5	Carlos Slim Helu	smart management팀	09:10:00	19:10:00	0 hr	10:0...	Normal		
6	Lakshmi Mittal	multimedia팀	09:00:00	18:00:00	4 hr	09:0...	Normal		
7	Christy Walton	smart framework팀	09:00:00	18:00:00	0 hr	09:0...	Normal		

You can export to excel or print out for attendance report

attendance summary for each time and attendance code with specified date

administrator may adjust or correct attendance log which system have processed if necessary

TAAM (Time and Attendance Manager)

Attendance Report Excel Export

Attendance Report by Date (2011-10-19)							
Username	Department	In	Out	Overtime	Office Hours	Result	Correction Time
Eike batista	smart management	08:05:00	18:05:00	0 hr	10:00:00	Normal	
Bill Gates	multimedia	09:15:00	17:15:00	0 hr	08:00:00	Normal	2011-11-07 14:52:28
Larry Ellison	multimedia	09:00:00	18:00:00	0 hr	09:00:00	Normal	
karl Albrecht	smart framework	09:00:00	17:00:00	0 hr	08:00:00	Early Out	
Carlos Slim Helu	smart management	09:10:00	19:10:00	0 hr	10:00:00	Normal	
Lakshmi Mittal	multimedia	09:00:00	18:00:00	4 hr	09:00:00	Normal	
Christy Walton	smart framework	09:00:00	18:00:00	0 hr	09:00:00	Normal	
Lika Shing	smart framework	09:20:00	18:20:00	0 hr	09:00:00	Late In	
Stefan Persson	smart framework	09:00:00	20:00:00	2 hr	11:00:00	Normal	
Warren Buffett	multimedia	09:15:00	18:15:00	0 hr	09:00:00	Normal	
Amancio Ortega	smart management	09:00:00	21:00:00	3 hr	12:00:00	Normal	
Mukesh Ambani	smart management	09:00:00	18:30:00	0 hr	09:30:00	Normal	

TAAM (Time and Attendance Manager)

Attendance Report by Month

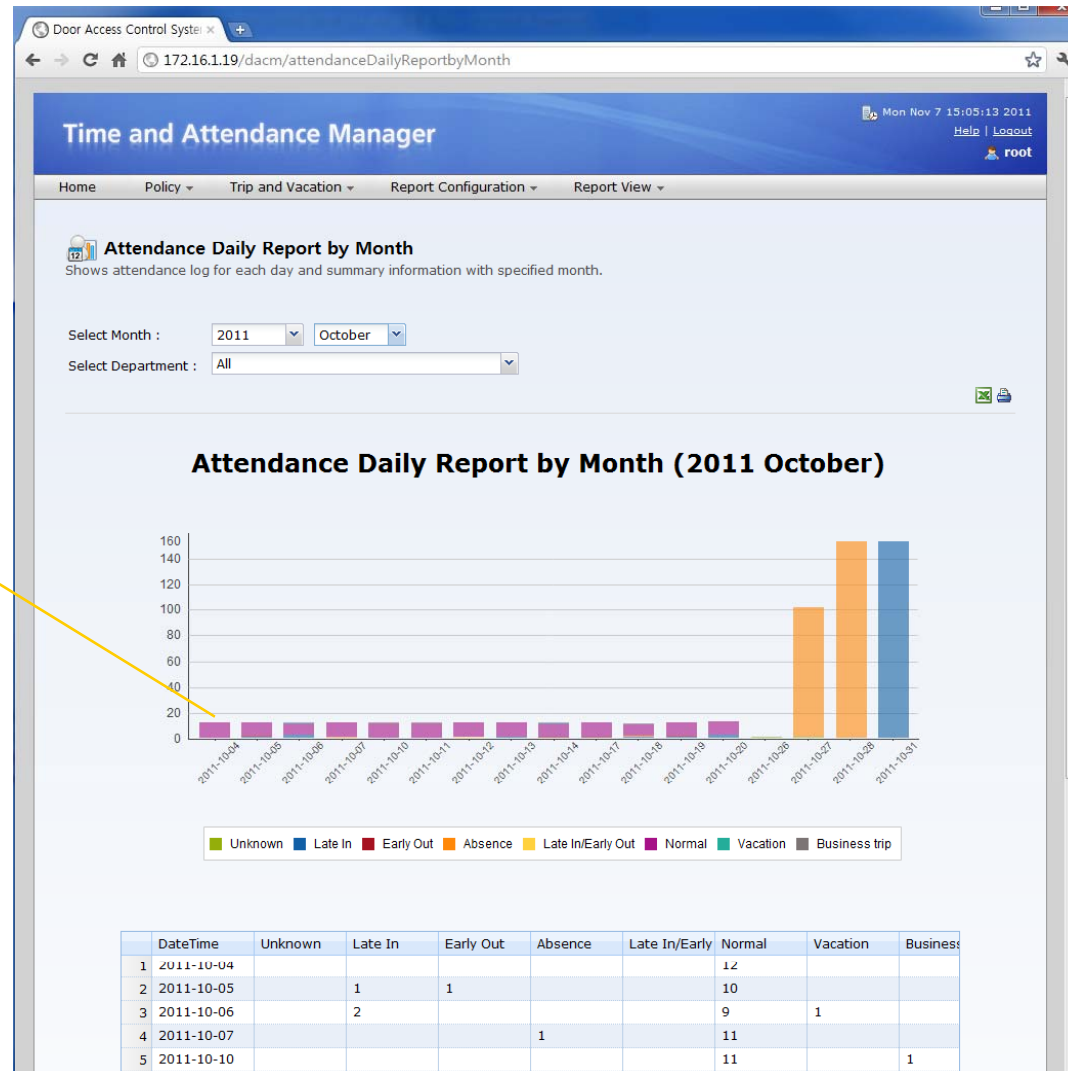


attendance summary for each time and attendance code with specified month

attendance summary for each extension user

TAAM (Time and Attendance Manager)

Attendance Daily Report by Month



clustered column of attendance summary with time span from first to end of the month

TAAM (Time and Attendance Manager)

Attendance Personal Report

Attendance Personal Report
Shows attendance log of each day for the month with specified user.

Select Month : 2011 | October
Select User : Carlos slim Helu

Attendance Personal Report (2011 October)
Carlos slim Helu (/2F/)

Type	Count
Late In	1
Early Out	2
Absence	1
Normal	10
Business trip	1

ID	DateTime	In	Out	Overtime	Office Hours	Result
1	2011-10-04	09:00:00	18:00:00	0 hr	10:00:00	Normal
2	2011-10-05	09:00:00	18:00:00	0 hr	10:00:00	Normal
3	2011-10-06	09:00:00	18:00:00	0 hr	10:00:00	Normal
4	2011-10-07	09:00:00	18:00:00	0 hr	10:00:00	Normal
5	2011-10-10	09:10:00	19:10:00	0 hr	10:00:00	Normal
6	2011-10-11	09:10:00	19:10:00	0 hr	10:00:00	Normal
7	2011-10-12	09:10:00	19:10:00	0 hr	10:00:00	Normal
8	2011-10-13	09:10:00	19:10:00	0 hr	10:00:00	Normal
9	2011-10-14	09:10:00	17:10:00	0 hr	08:00:00	Early Out

You can specify one extension user for attendance report of the month

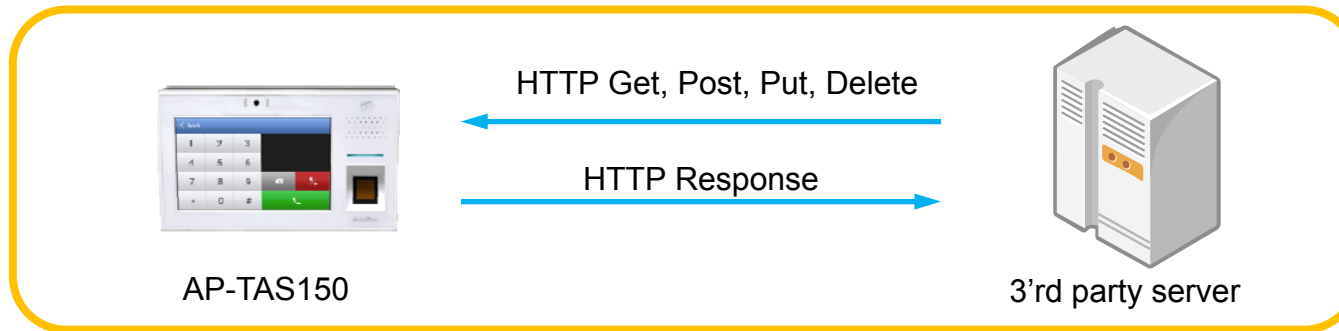
attendance summary for time and attendance code of a extension user



Open API

Open API

Open API for 3'rd Party Management System

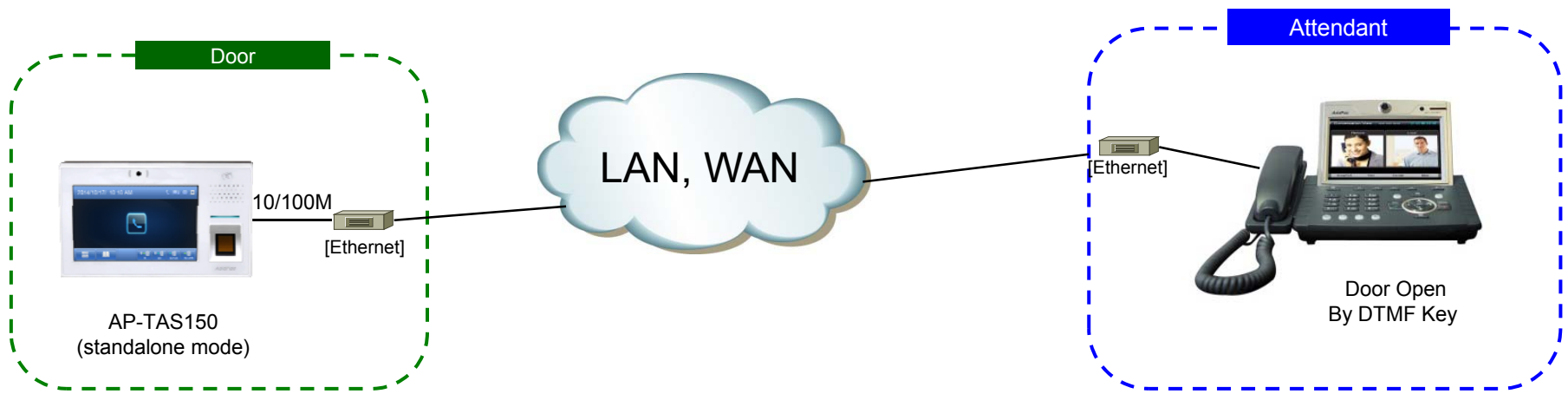


- HTTP based RESTful Open API for Door Access Management
- XML based Flexible and Expandable Message Contents
- Provides More than 40 APIs as Bellow
 - user_list(GET), user(GET, POST, PUT, DELETE), ...
 - terminal_list(GET), terminal(GET, POST, PUT, DELETE), ...
 - access_group(GET, POST, PUT, DELETE),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

Application Area

- Point-to-Point Application (Simple Application)
- Point-to-Multipoint Application
- Legacy IP-PBX Environment

Point-to-Point Connection (Simple Appl.)

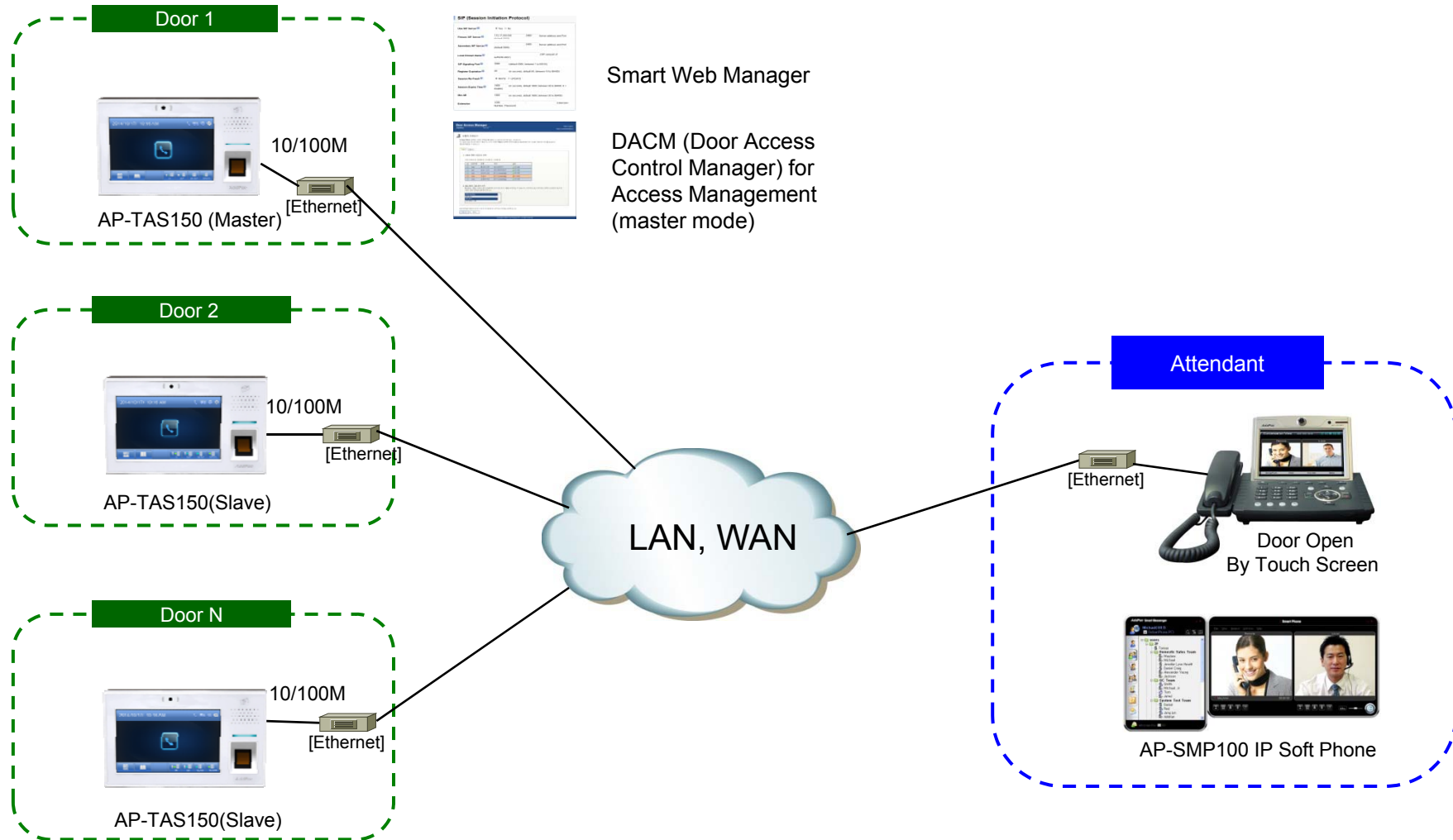


Smart Web Manager

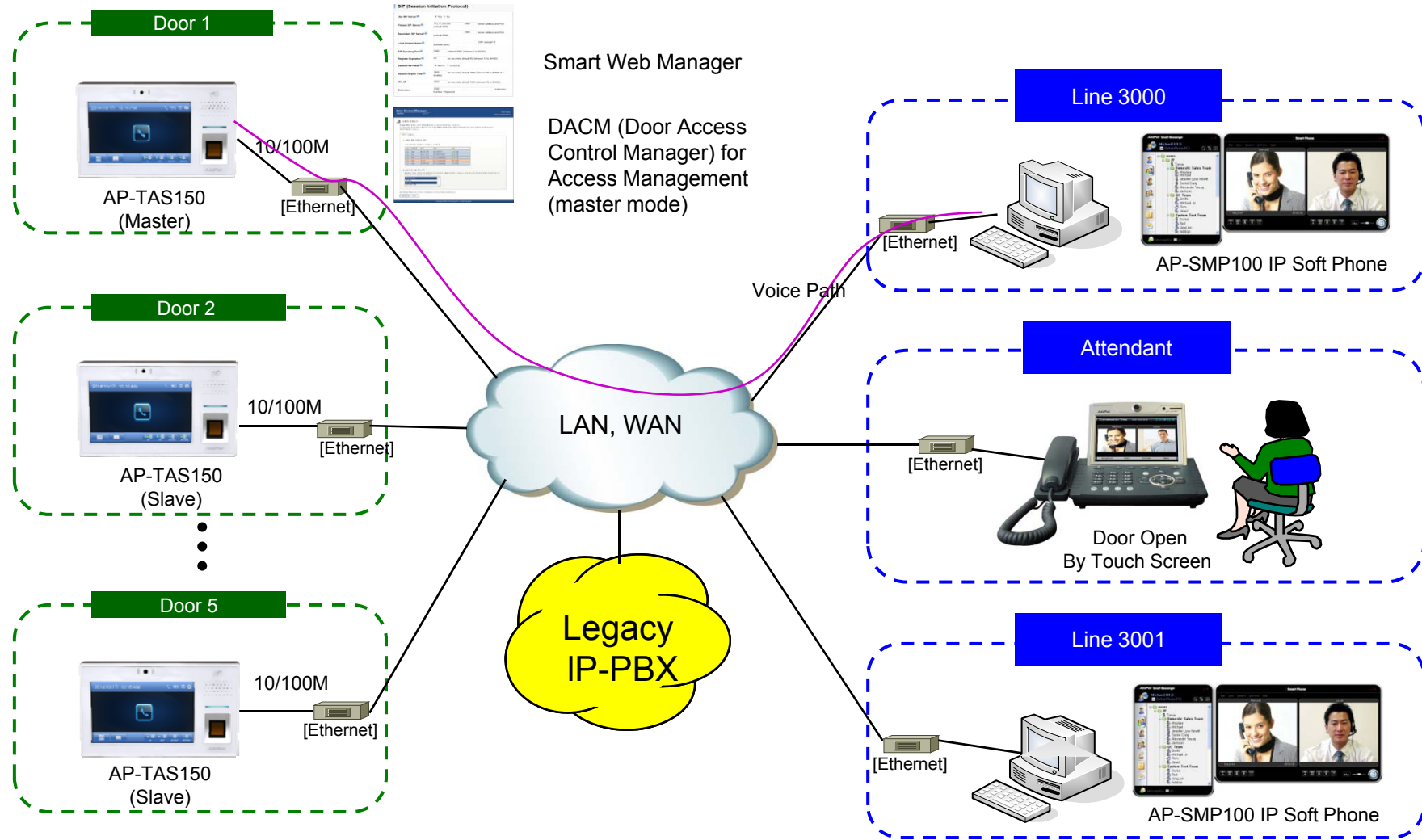


DACM (Door Access Control Manager) for Access Management (master mode)

Point-to-Multi-Point Connection



Legacy IP-PBX Environment



Ordering Information

- **AP-TAS150 Time & Attendance IP Video Door Phone Hardware**
 - AP-TAS150 Main Body
 - RISC Microprocessor with High-end Programmable DSP Architecture
 - 5 Inch LCD, Built In Camera
 - Fingerprint Recognition, RF card Interface
 - Internal MIC, Internal Speaker
 - 1-ports 10/100Mbps Fast Ethernet
 - PoE Interface
 - Including Network Cable Set & Ext. Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-TAS150**
- **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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