

AP-TAS120 Time & Attendance IP Voice Door Phone

High Performance Time & Attendance IP Voice Door Phone Solution



AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

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Product Overview

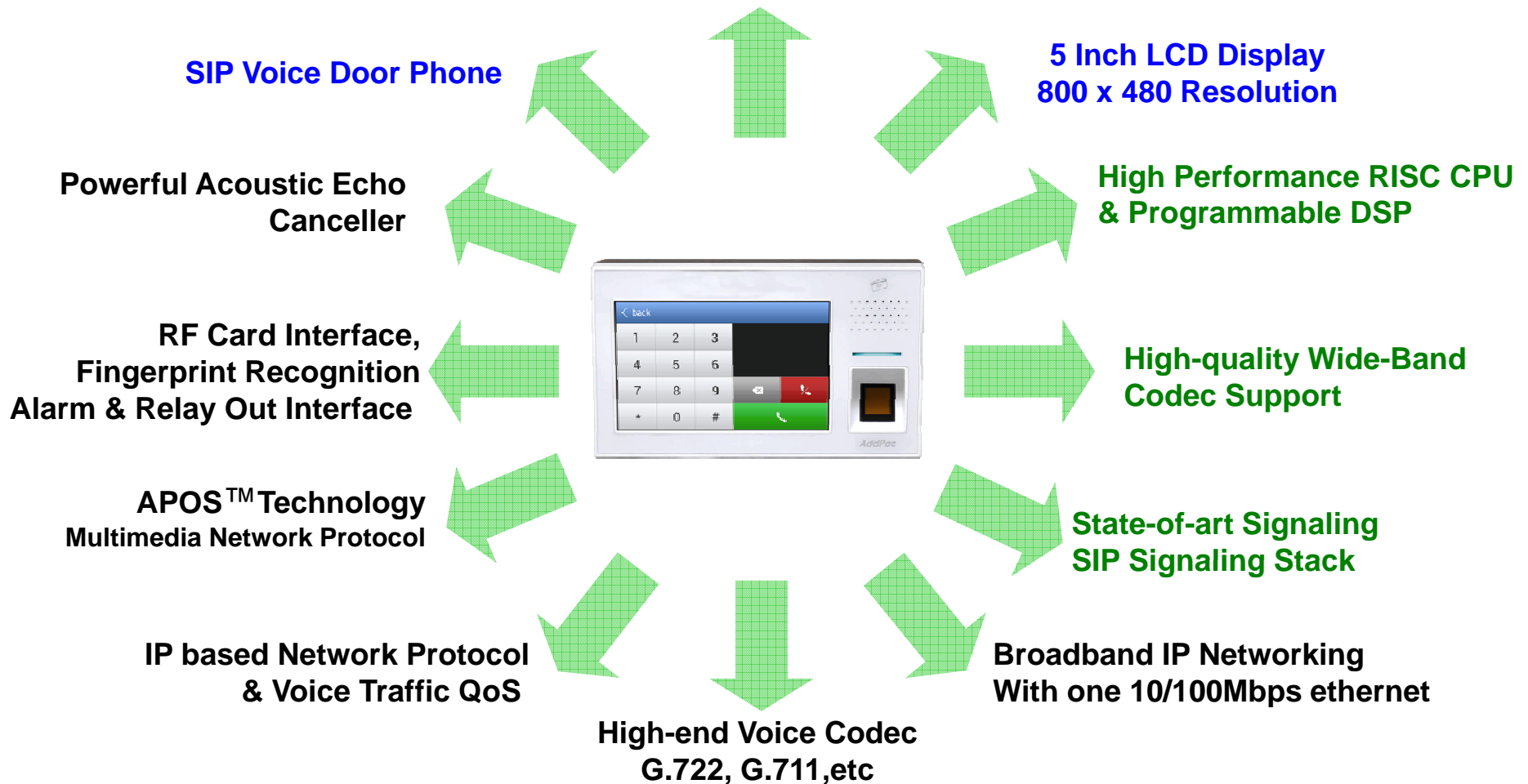
AP-TAS120 Time & Attendance IP Voice Door Phone

- Smart Time & Attendance IP Voice Door Phone Solution
- High Performance SIP Voice Door Phone Solution
- Voice Call Button, 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
 - G.722/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-TAS120 Time & Attendance IP Voice Door Phone

Smart Time & Attendance IP Voice Door Phone

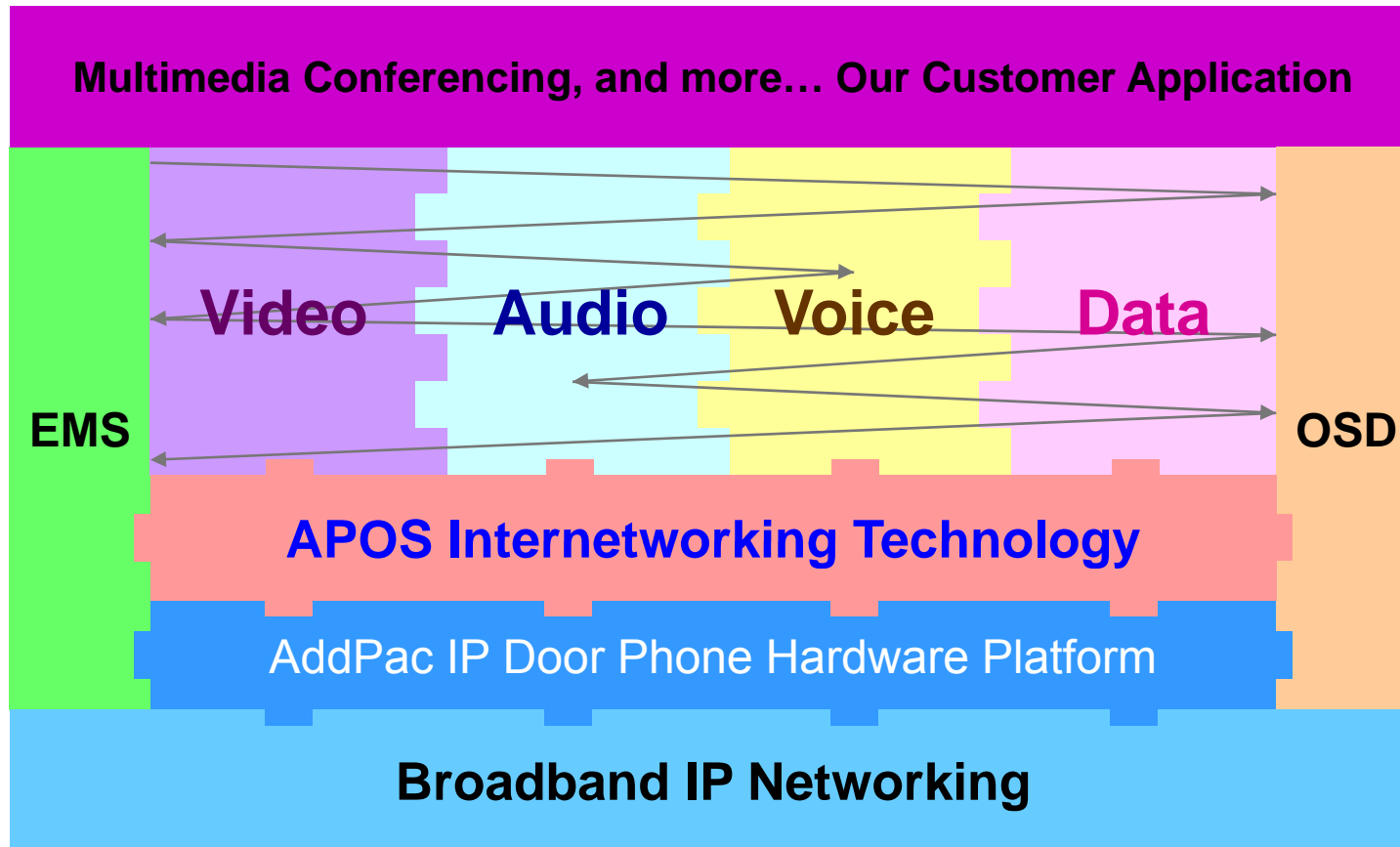


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Multimedia Service

AP-TAS120 Time & Attendance IP Voice Door Phone



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

Hardware Specification

AP-TAS120 Time & Attendance IP Voice Door Phone

RISC
CPU

High-end
DSP

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
- 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-TAS120 Time & Attendance IP Voice 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-TAS120 Time & Attendance IP Voice 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

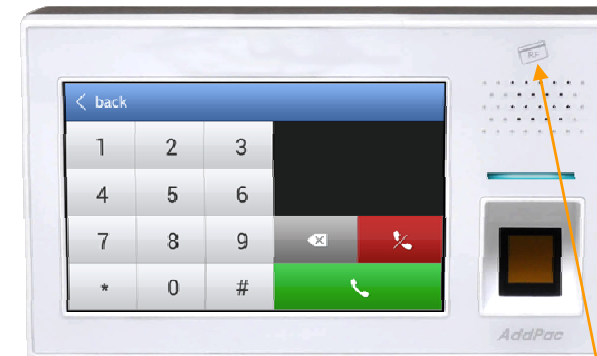
Hardware Specification

AP-TAS120 Time & Attendance IP Voice 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-TAS120 Time & Attendance IP Voice 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



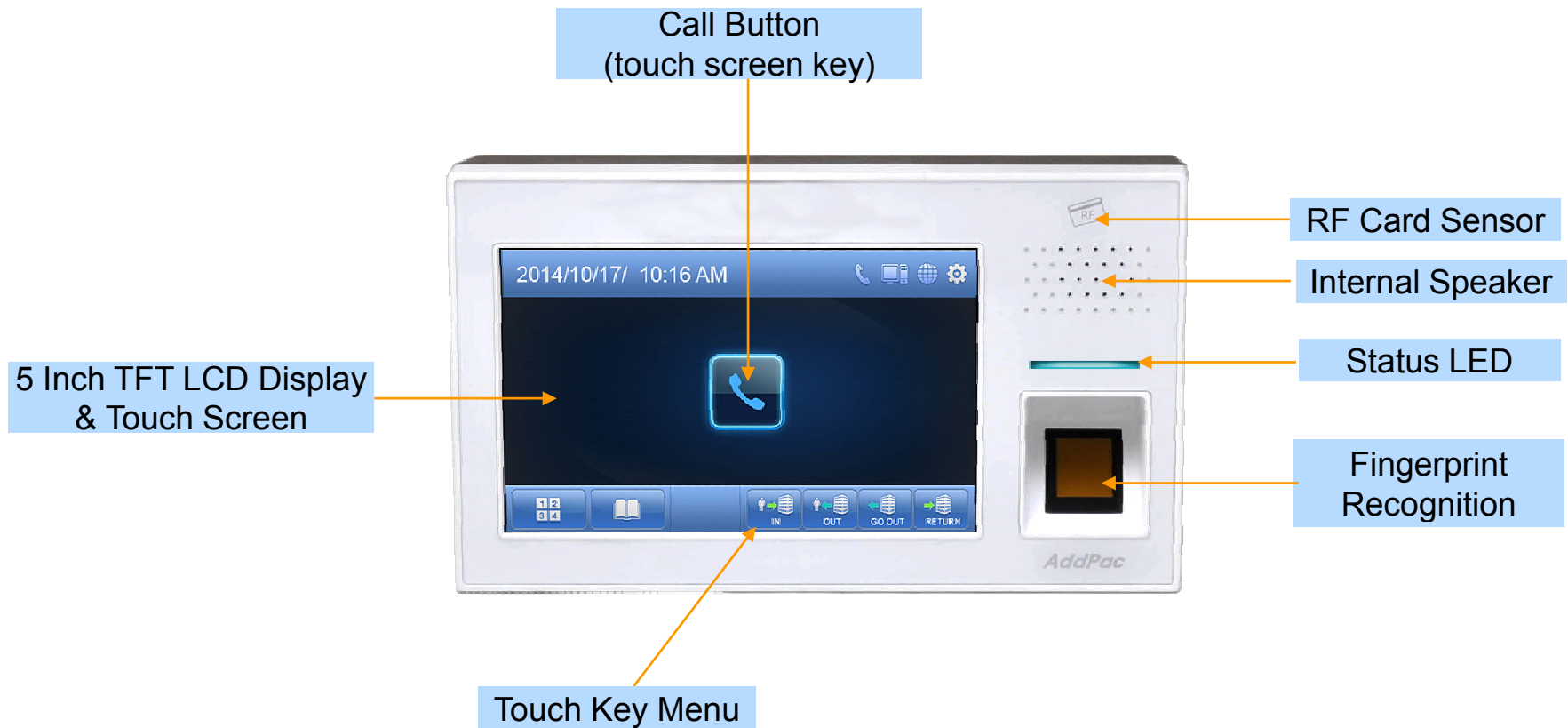
Fingerprint Recognition

Hardware Specification

AP-TAS120 Time & Attendance IP Voice Door Phone

RISC
CPU

High-end
DSP



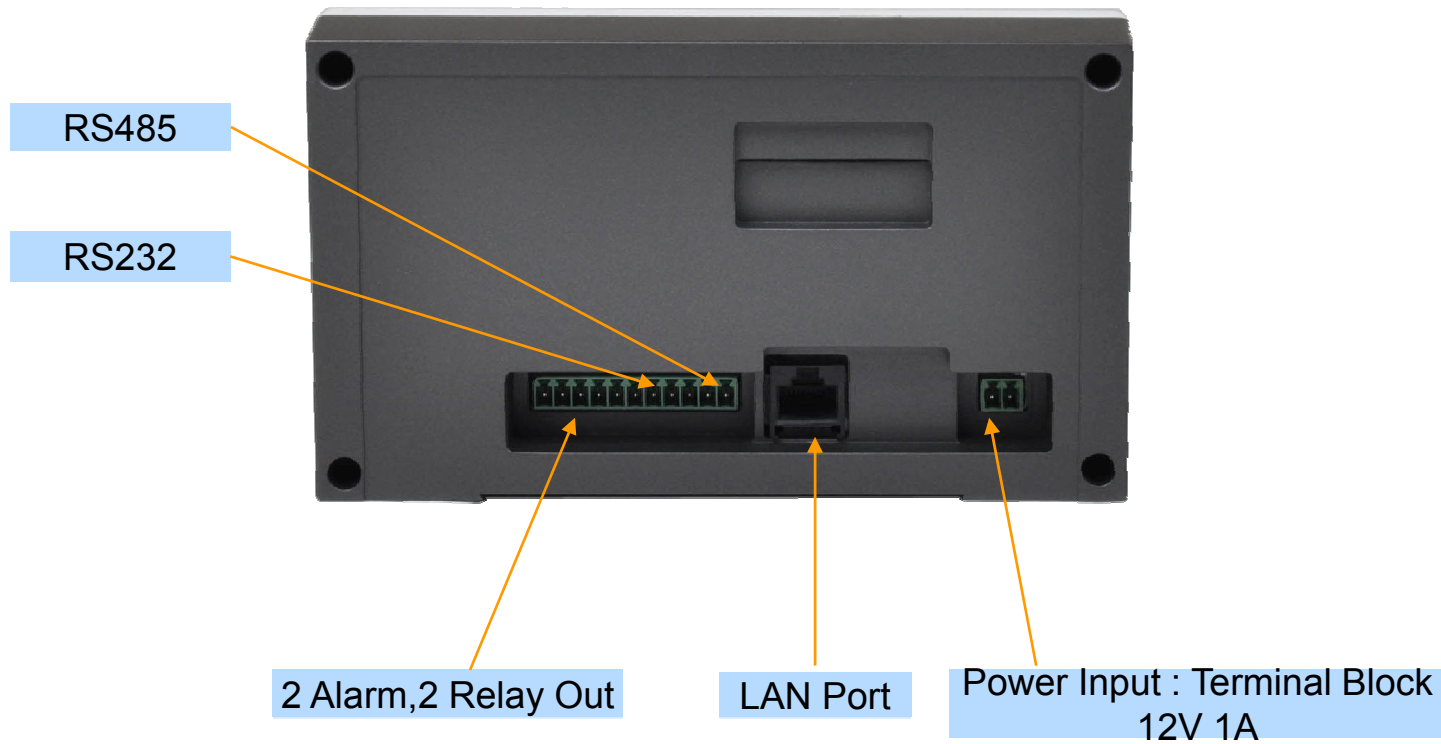
Hardware Specification

AP-TAS120 Time & Attendance IP Voice Door Phone

RISC
CPU

High-end
DSP

Back Side



Hardware Specification

AP-TAS120 Time & Attendance IP Voice Door Phone

RISC
CPU

High-end
DSP

Back Side



Mount Bracket

Hardware Specification

AP-TAS120 Time & Attendance IP Voice Door Phone

RISC
CPU

High-end
DSP

Power Supply

Terminal Block



12V 1A Power Adaptor

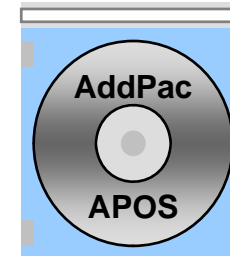
Example



Software Service

AP-TAS120 Time & Attendance IP Voice Door Phone

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



Audio & Voice Service and Features

AP-TAS120 Time & Attendance IP Voice Door Phone

- VoIP based Signaling Protocol Support
 - SIP Signaling Protocol Stack
- High-performance Audio & Voice Codec Support
 - G.722, G.711, G.726 Audio Codec
- Enhanced QoS Management Features for Voice Traffics



Smart Web Manager (Example)

Smart Web Manager

AP-TAS120 Time & Attendance IP Voice 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-TAS120 Time & Attendance IP Voice Door Phone

The screenshot shows the Smart Web Manager interface. At the top right, there are four icons: a gear (Initialization), a power button (Rebooting), a floppy disk (Save), and a terminal icon (Telnet). The main content area is divided into three sections: a left-hand menu tree, a central configuration area, and a right-hand information panel.

- Menu Tree:** Contains three expandable sections: 'System' (Language, LAN Setup, DACS, Display Manager, File Browser), 'Call & Media' (Server SIP, Speed Dial, Media), and 'Miscellaneous' (Ping, Door Open).
- Configure Language:** The active configuration screen. It shows radio buttons for '한국어' and 'English' (selected). An 'Apply' button with a green checkmark is at the bottom.
- System Information and Help Message:** Contains 'Information' (AddPac Technology, Model: VAC50_G2, DACS: (0), DACS Registration: Fail, SIP: 172.17.250.250(5060)) and a 'Description' (Choose the basic language to be applied. English is set at default.)

Menu Tree

Output Screen after
Menu Select

System Information and
Help Message

Smart Web Manager : SIP configuration

AP-TAS120 Time & Attendance IP Voice 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

Yes No

Primary SIP Server

172.17.250.250

5060

Server address and Port
(default 5060)

Secondary SIP Server

5060

Server address and Port
(default 5060)

Local Domain Name

(SIP userpart of authentication)

SIP Signaling Port

5060

(default 5060, between 1 to 65535)

Register Expiration

60

(in seconds, default 60, between 10 to 86400)

Session Re-Fresh

INVITE UPDATE

Session Expire Time

1800

(in seconds, default 1800, between 30 to 86400, 0 = disable)

Min-SE

1800

(in seconds, default 1800, between 30 to 86400)

Extension

1020

Number, Password

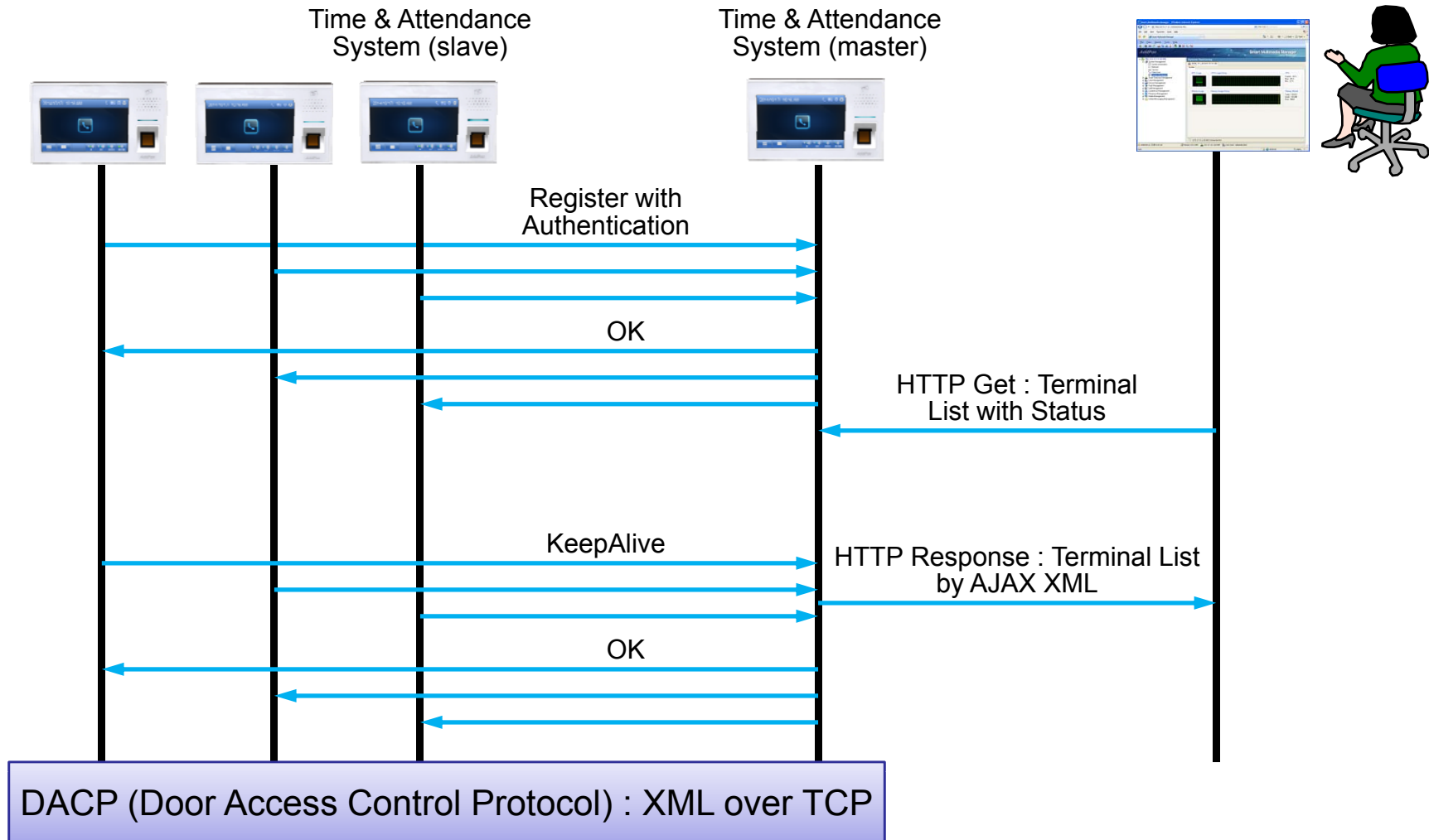
Extension



Time & Attendance System Message Flow

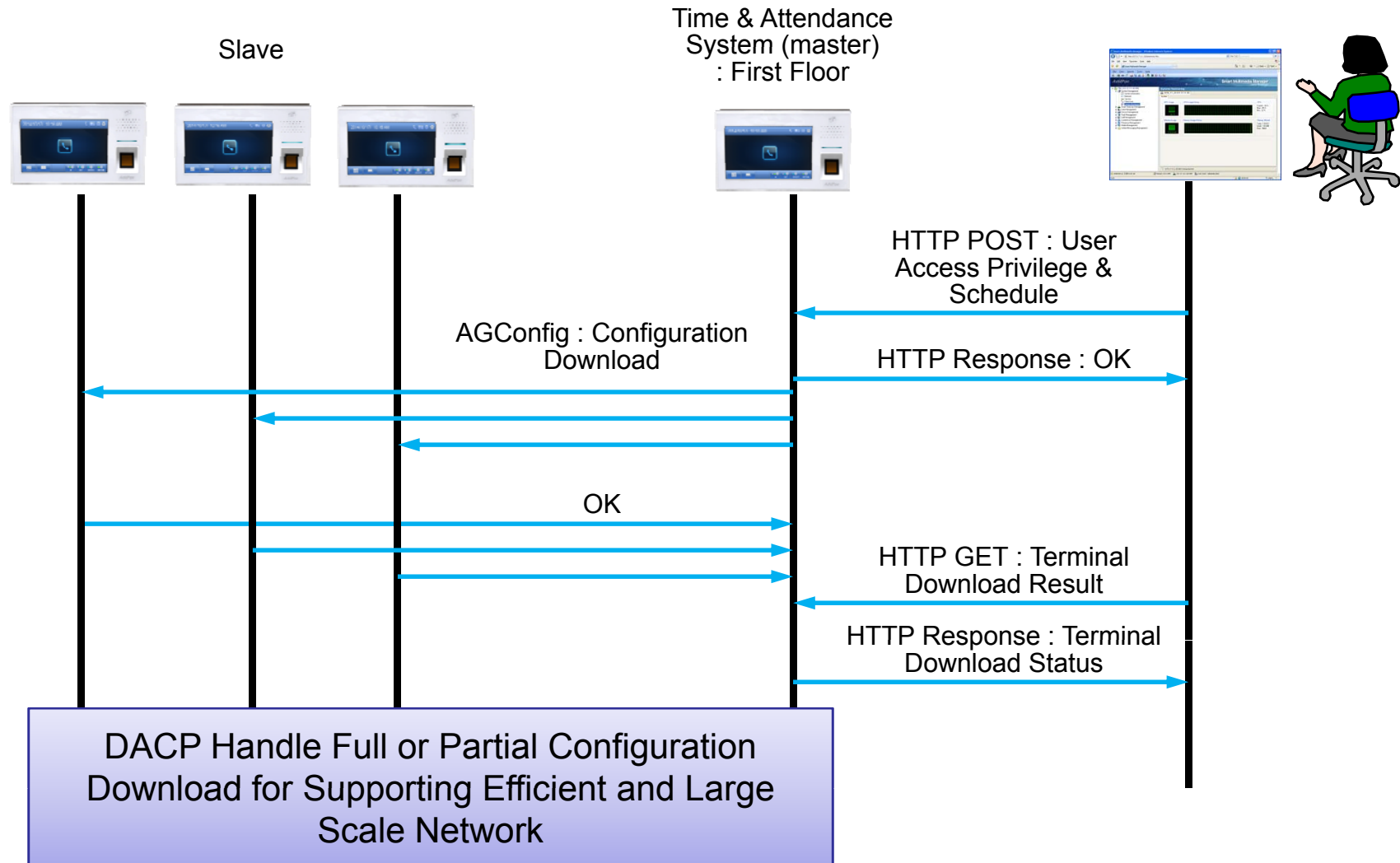
Time & Attendance System Message Flow

Registration and KeepAlive



Time & Attendance System Message Flow

Access Privilege and Schedule Download

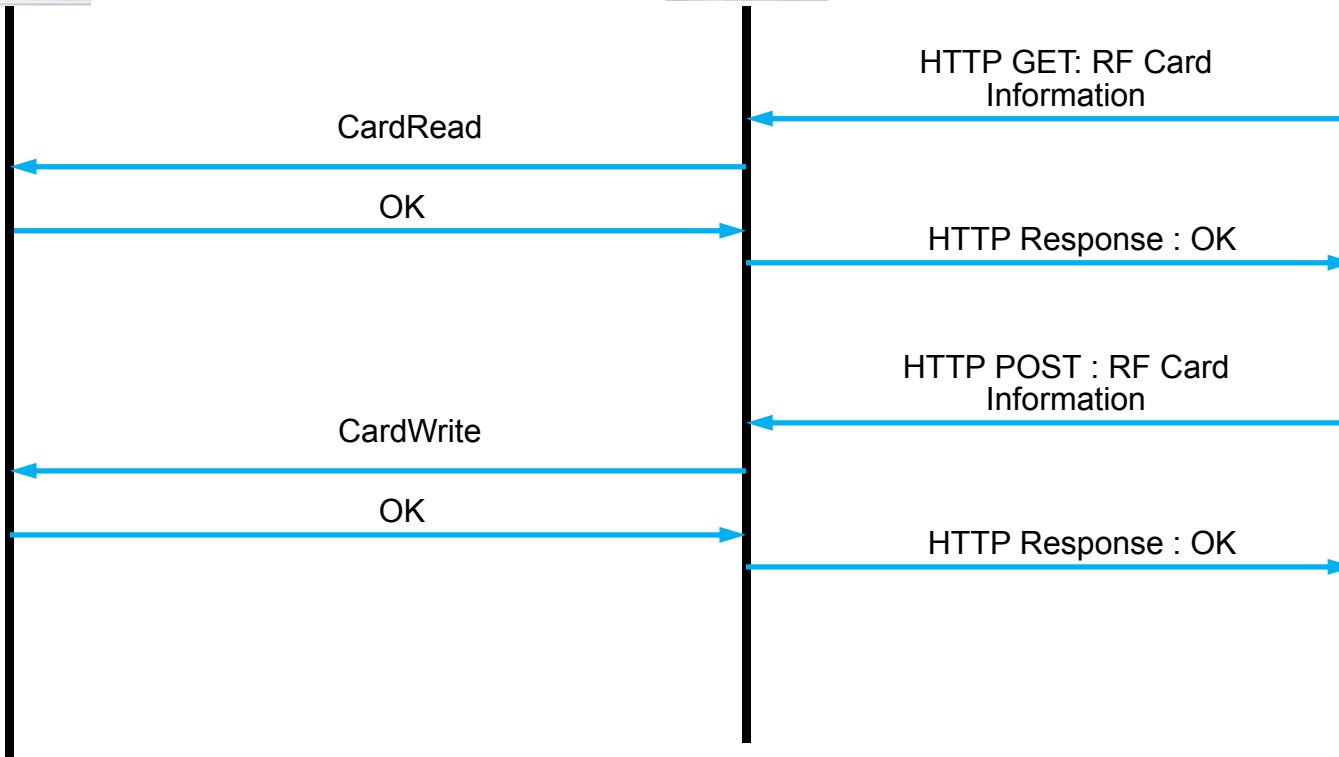
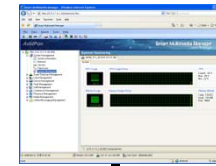


Time & Attendance System Message Flow

RF Card Read/Write and Registration

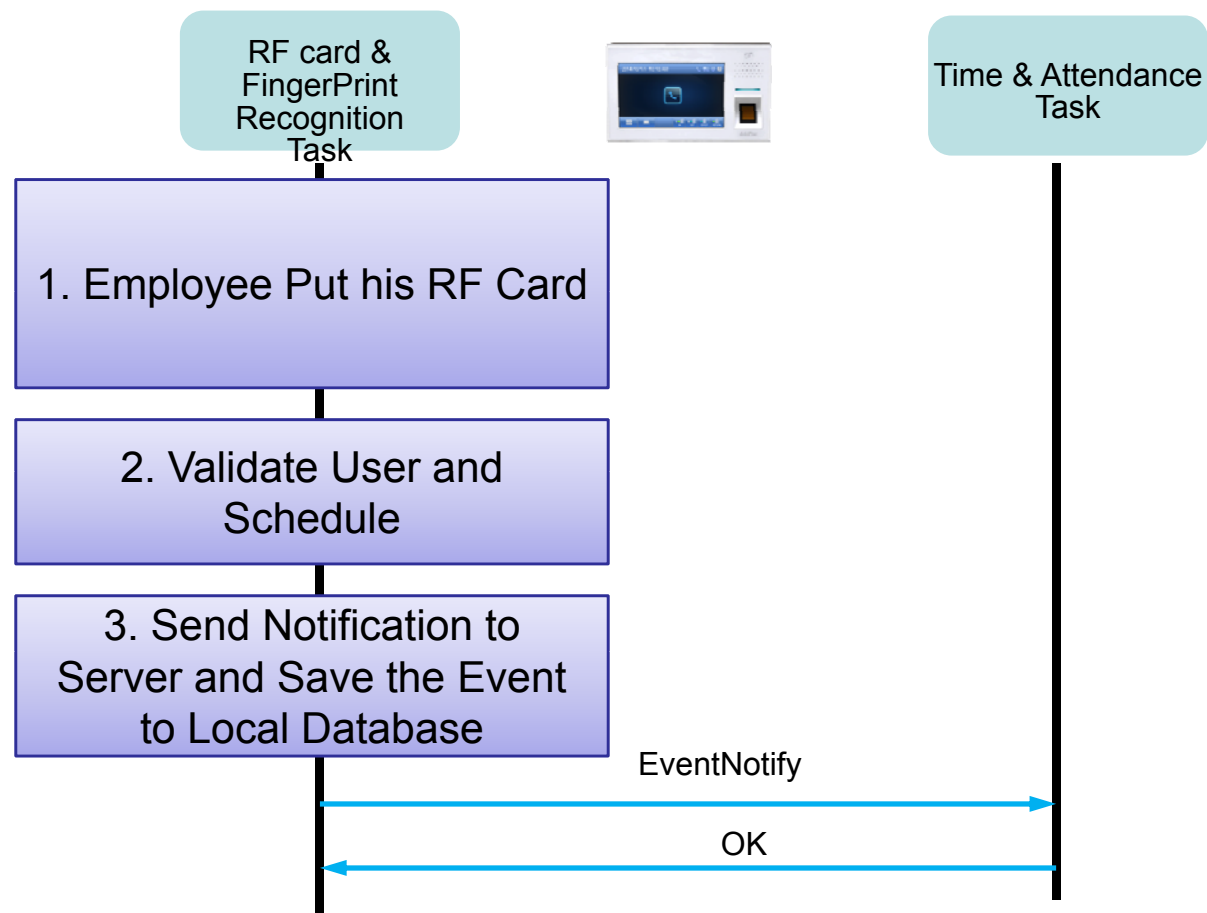
Time & Attendance System (slave)

Time & Attendance System (master)



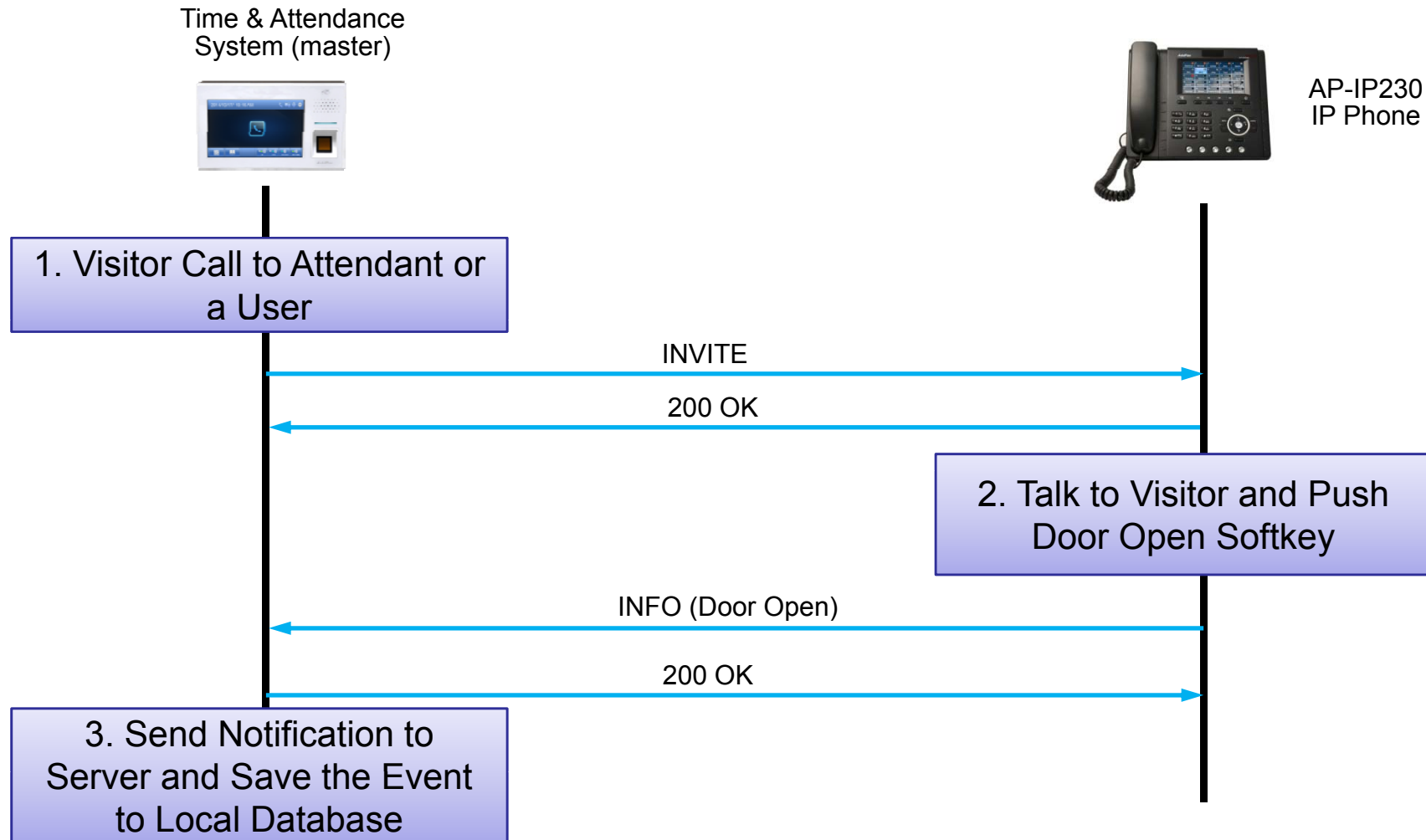
Time & Attendance System Message Flow

Door Open by RF Card



Time & Attendance System Message Flow

Door Open by Other Terminal





Door Access Control Manager for AP-TAS120

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.

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 (grey), Mon, Tue, Wed, Thu, Fri, Sat (grey)

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 features a table with two entries: a business trip and a vacation. Annotations explain that multiple users can be specified for each entry, that extension users are not processed as absentees during the period, and that user-defined time and attendance codes are used for reporting and corrections.

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 following codes:

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		

Three callout boxes provide additional information:

- A box pointing to the first three rows (Unknown, Not yet defined, Late In) states: "system built-in time and attendance code is provided as default, for example late-in, early-out and absence".
- A box pointing to the 'Sick Leave' row states: "only user-define code can be removed if needed".
- A box pointing to the entire table states: "show built-in and user-defined time and attendance code which will be used in the attendance report and log correction".

The footer of the page includes "AddPac Copyright © AddPac 1999-2011 All Rights Reserved" and "Version 1.1.14".

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.

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

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)

Summary:

Type	Count
Late In	1
Early Out	1
Normal	10

Table:

	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

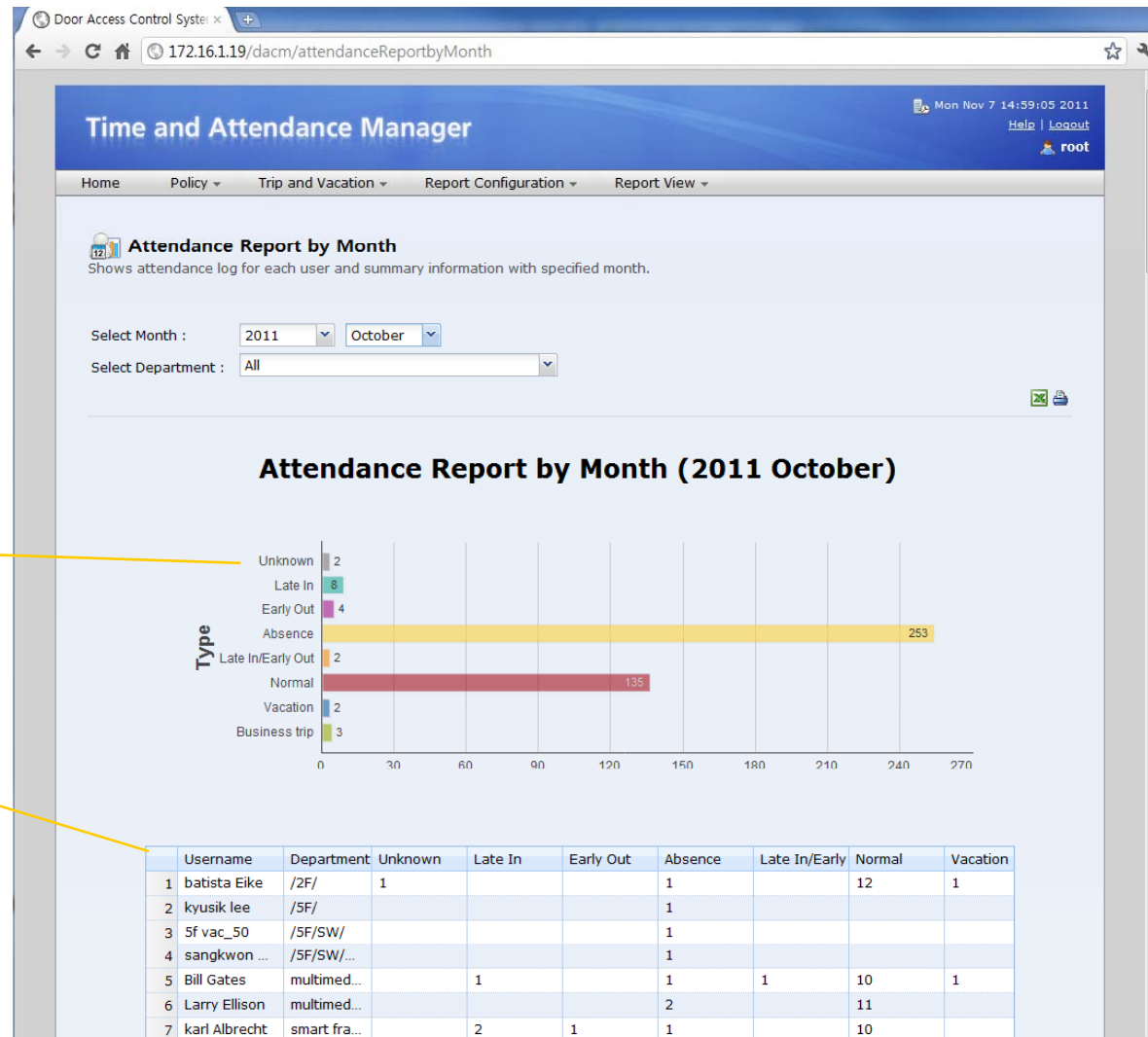
administrator may adjust or correct attendance log which system have processed if necessary

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

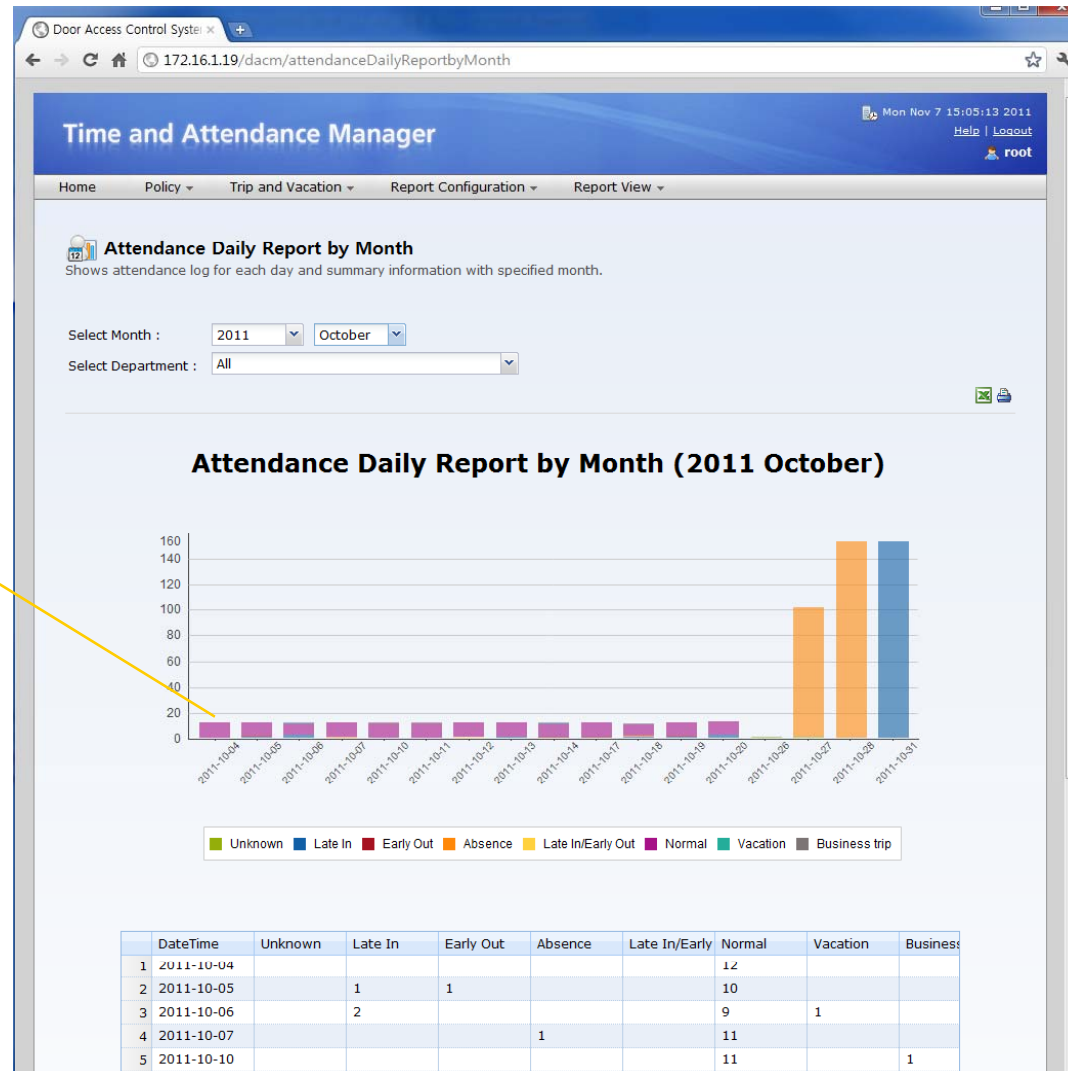


attendance summary for each time and attendance code with specified month

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

Time and Attendance Manager
Mon Nov 7 15:08:39 2011
Help | Logout
root

Home Policy Trip and Vacation Report Configuration Report View

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

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

	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

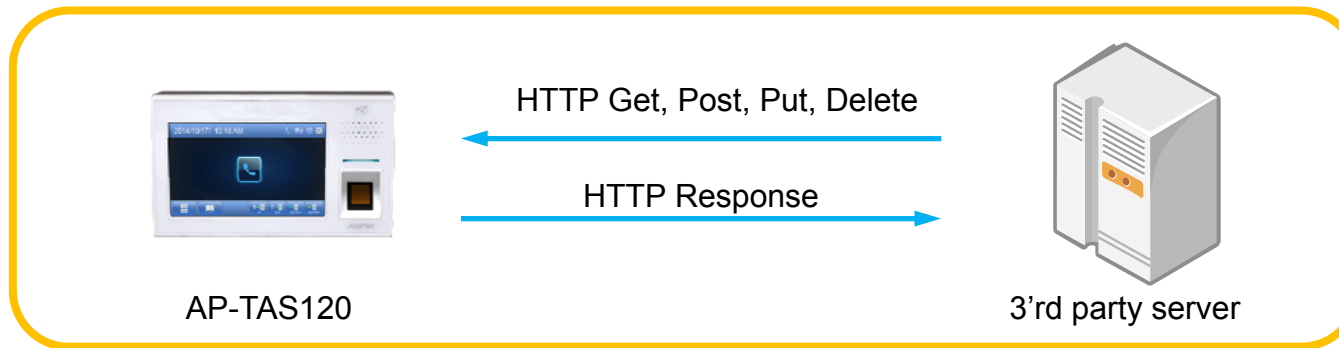
attendance summary for time and attendance code of a extension user



Open API

Open API

Open API for 3'rd Party Management System



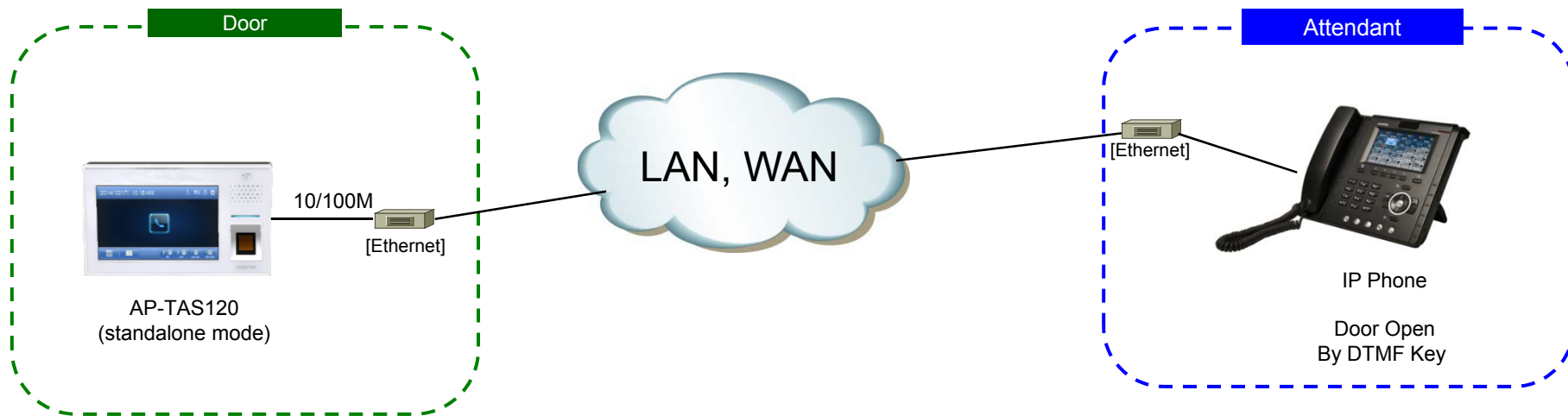
- HTTP based RESTful Open API for Door Access Management
- XML based Flexible and Expandable Message Contents
- Provides More than 40 APIs as Bellow
 - user_list(GET), user(GET, POST, PUT, DELETE), ...
 - terminal_list(GET), terminal(GET, POST, PUT, DELETE), ...
 - access_group(GET, POST, PUT, DELETE),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



Point-to-Point Connection (Simple Appl.)

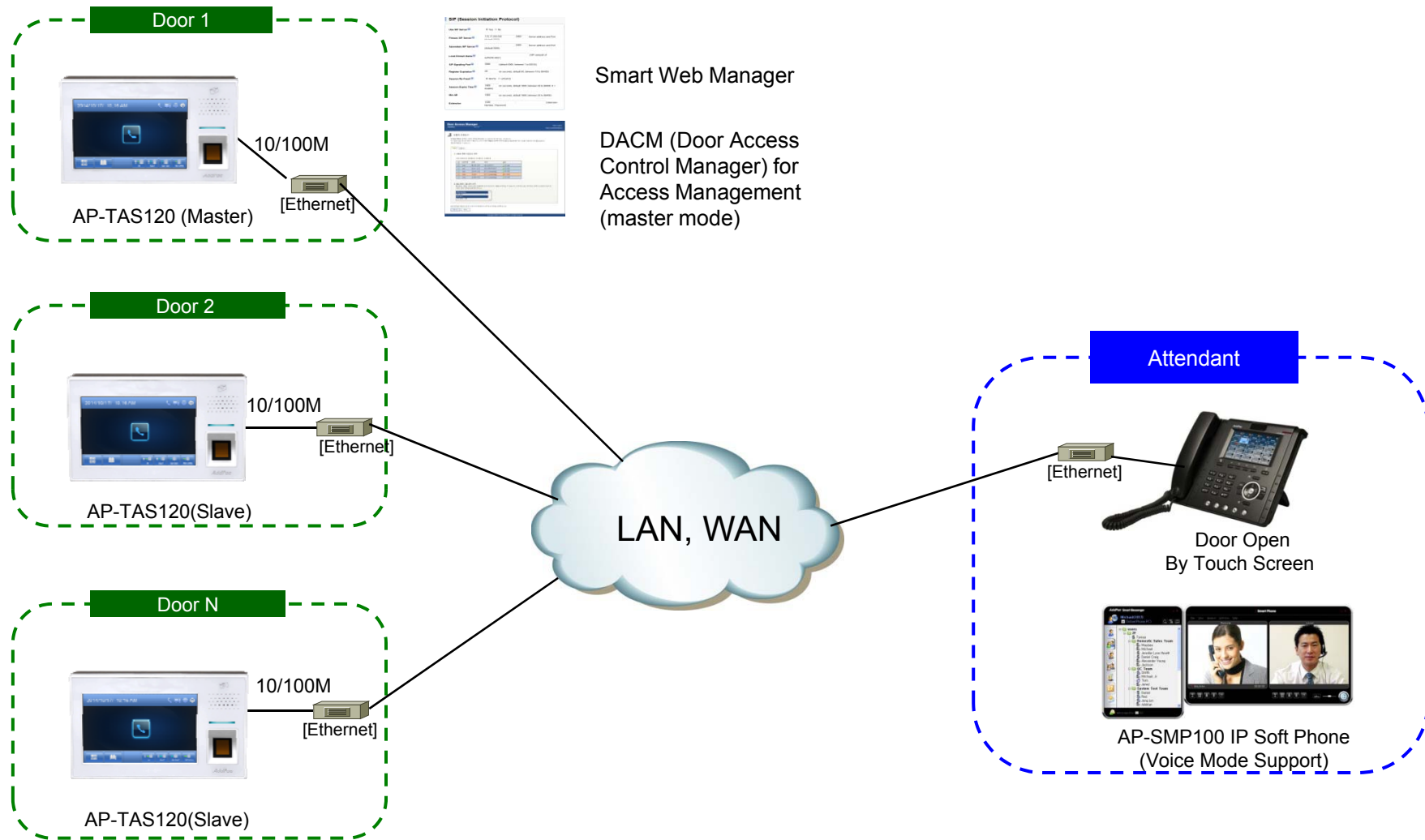


Smart Web Manager



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

Integrated Door Access Control and Call Control



Ordering Information

- **AP-TAS120 Time & Attendance IP Voice Door Phone Hardware**
 - AP-TAS120 Main Body
 - RISC Microprocessor with High-end Programmable DSP Architecture
 - 5 Inch LCD Display
 - 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-TAS120**
- **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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