

# AP-TAC300F Time Attendance Door Access Controller

High Performance Time & Attendance Door Access Controller Solution



AP-TAC300 No Fingerprint Recognition Interface Version

**AddPac**

**AddPac Technology**

2015, Sales and Marketing

[www.addpac.com](http://www.addpac.com)

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# Product Overview

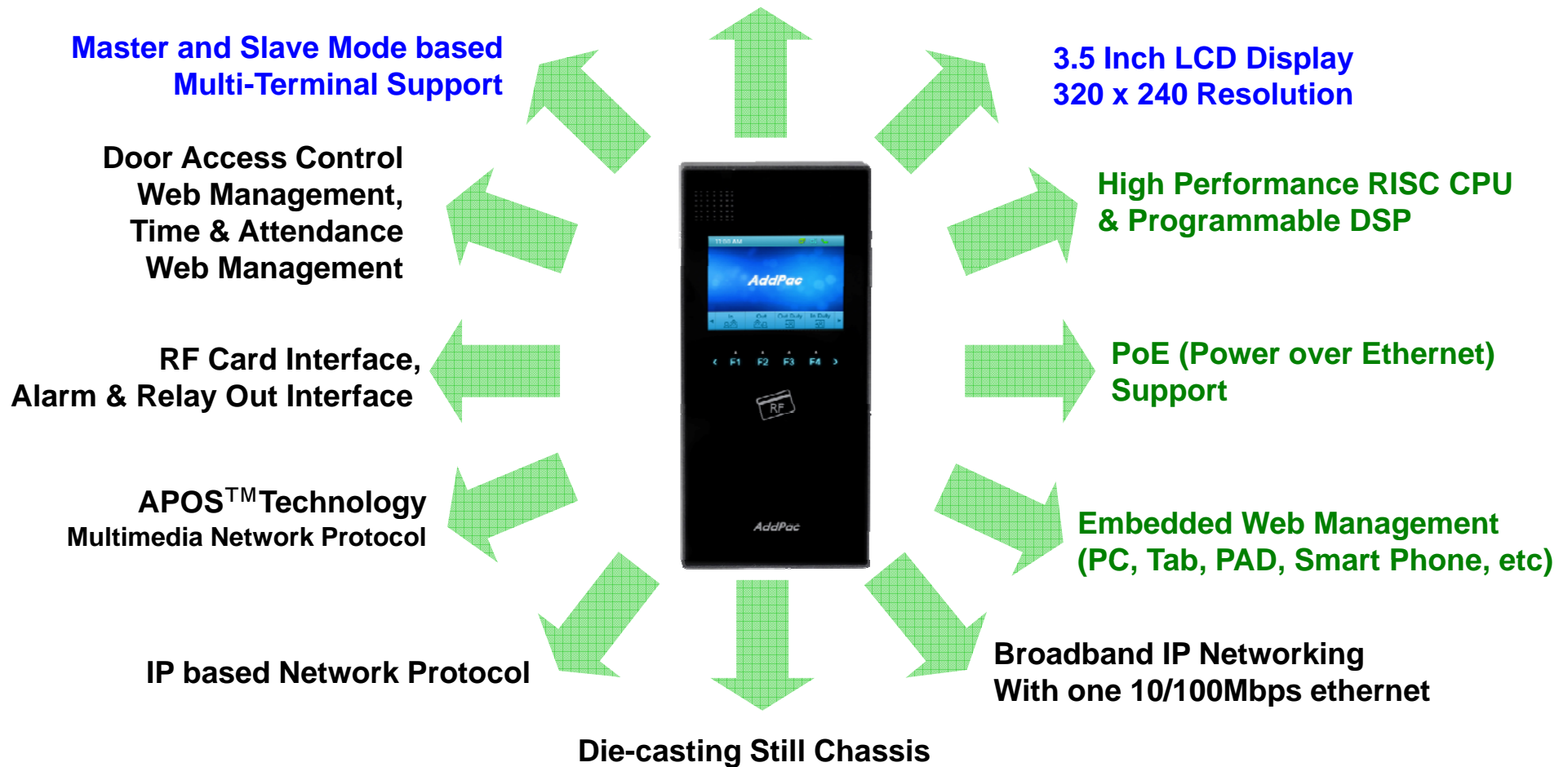
## AP-TAC300F Time & Attendance Door Access Controller

- Smart Time and Attendance Access Controller Solution
- TFT Color LCD, Internal Speaker
- High Quality 3.5 Inch LCD, 320 x 240 Video Resolution
- RF Card Support
- One(1) 10/100Mbps Fast Ethernet
- PoE(Power over Ethernet) Support
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Embedded Web based Management
- Master-Slave Mode based Multi-Terminal Support
- Smart Web Manager Support (PC, Tab, Smart Phone, etc)
- Smart Door Access Control Web Manager Support
- Smart Time and Attendance Web Manager Support
- Die-casting Still Chassis
- Firmware Upgradeable Architecture

# Product Highlights

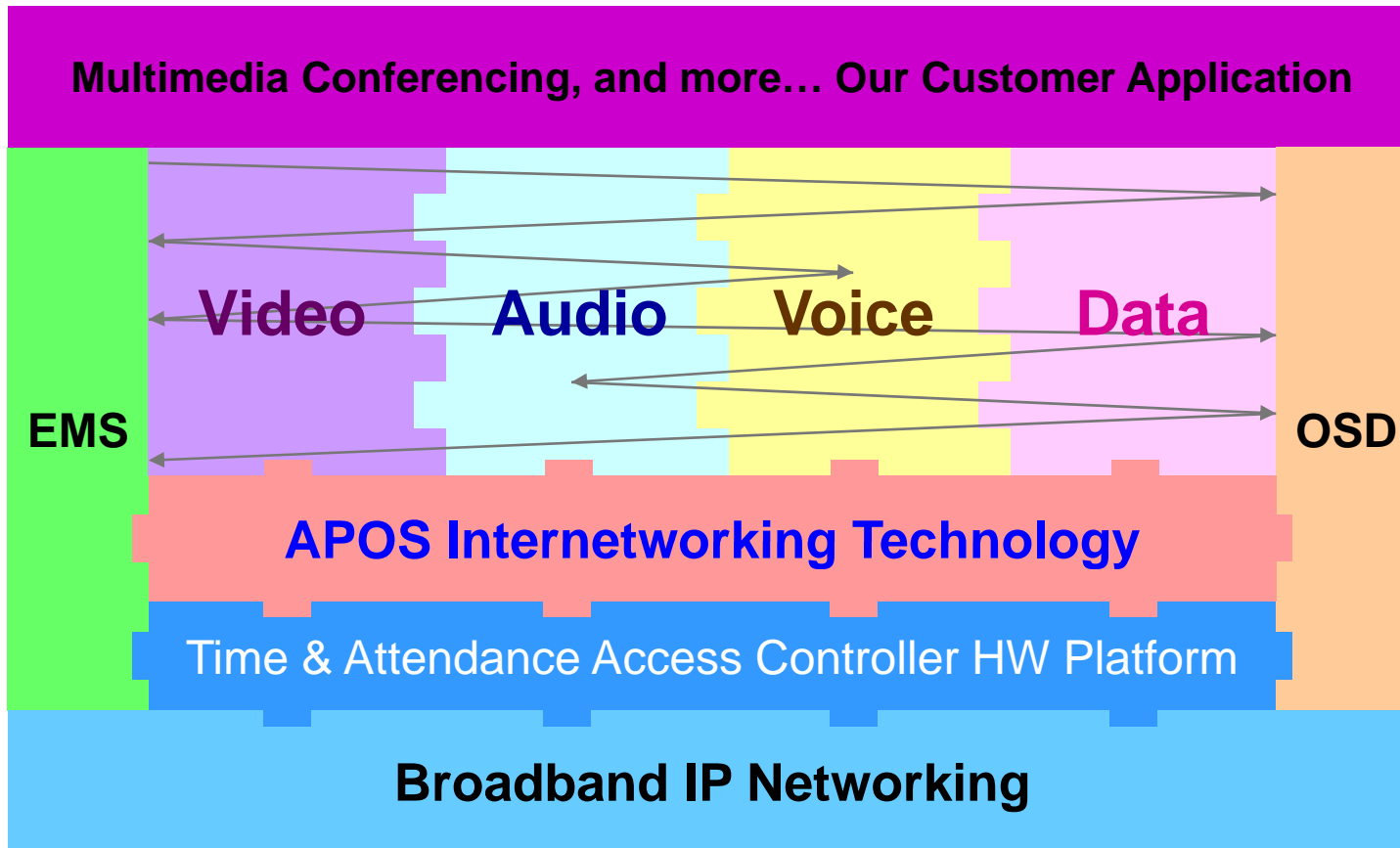
AP-TAC300F Time & Attendance Door Access Controller

## Smart Time and Attendance Controller





# Multimedia Service

AP-TAC300F Time & Attendance Door Access Controller



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

# AP-TAC300 & AP-TAC300F Comparison Table

Model	AP-TAC300	AP-TAC300F
Service Features		
Time & Attendance Service	Support	Support
LCD	3.5 inch LCD	3.5 inch LCD
RF Card	Support	Support
Fingerprint	Support	N/A
Touch Function Key	Support	Support
Alarm & Relay Port	Support	Support
Speaker	Support	Support
LAN Port	1	1
PoE(Optional)	Support	Support

# Hardware Specification

AP-TAC300F Time & Attendance Door Access Controller

RISC  
CPU

High-end  
DSP

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
  - Internal Speaker
- TFT Color LCD Interface
  - 3.5 Inch LCD, 320 x 240 Video Resolution
- Network Interface
  - One(1) 10/100Mbps Fast Ethernet
- RF Card Interface
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- STILL Chassis
- Power Supply
  - Power over Ethernet (Option)
  - External Power Supply



# Hardware Specification

## AP-TAC300F Time & Attendance Door Access Controller

RISC  
CPU

High-end  
DSP

- **LCD Controller**
  - One-Chip Solution for amorphous TFT-LCD
  - Support resolution up to 240xRGBx320
  - Built-in 172800 bytes internal RAM
  - 6,8,16, and 18-bit RGB Interface
  - Resize Function ( x ½, x ¼)
  - On-Chip Power Management System
- **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-TAC300F Time & Attendance Door Access Controller

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

# Hardware Specification

AP-TAC300F Time & Attendance Door Access Controller

RISC  
CPU

High-end  
DSP

Front Side

Internal Speaker



TFT LCD Display

Time & Attendance Menu

Function & Direction Key

RF Card Sensor

STILL Chassis

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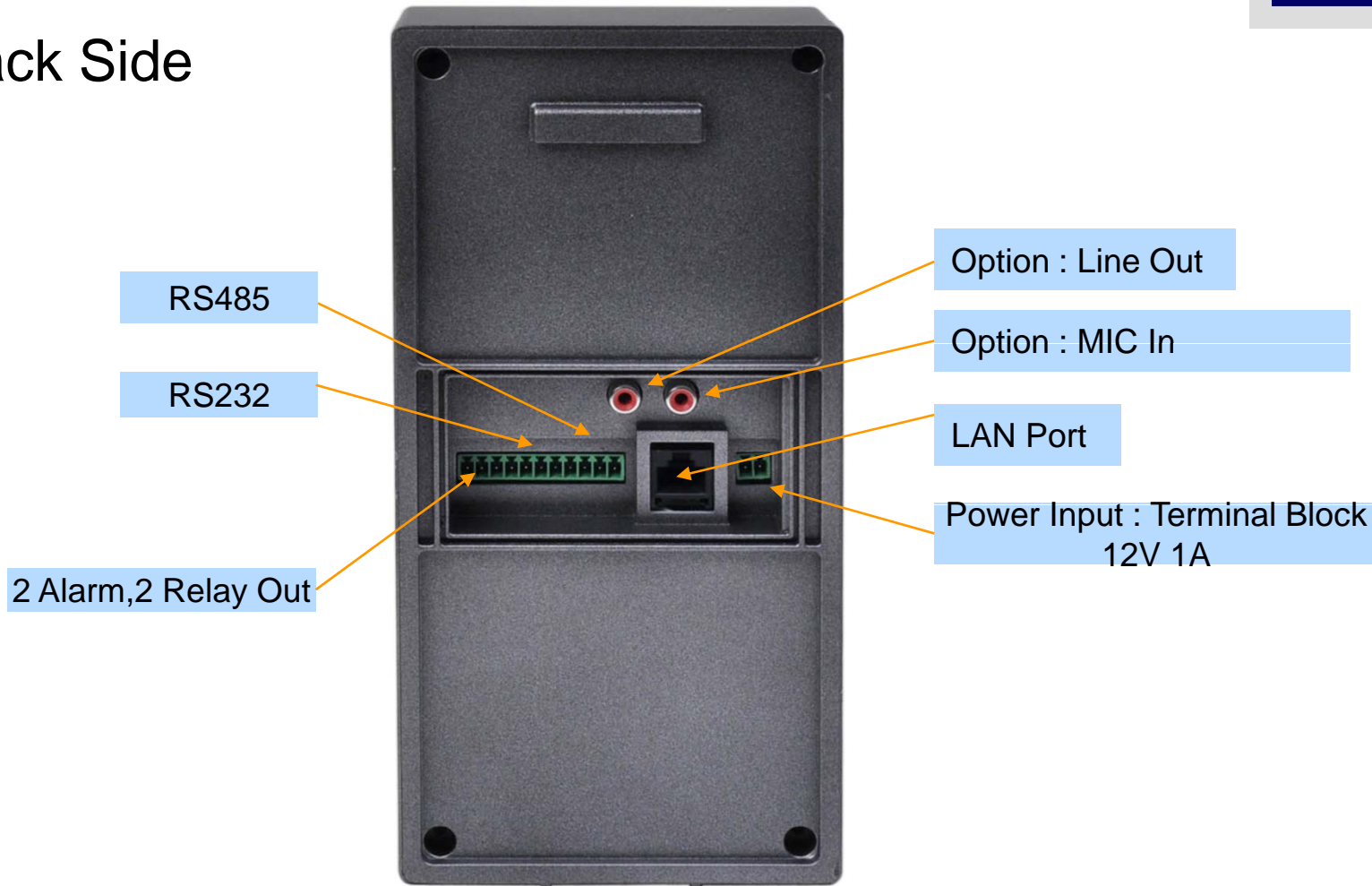
# Hardware Specification

AP-TAC300F Time & Attendance Door Access Controller

RISC  
CPU

High-end  
DSP

## Back Side



# Hardware Specification

AP-TAC300F Time & Attendance Door Access Controller

RISC  
CPU

High-end  
DSP

## Power Supply

Terminal Block



12V 1A Power Adaptor

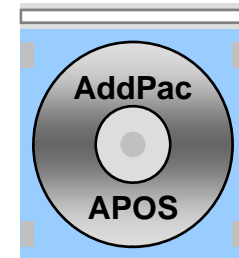
Example



# Software Service

AP-TAC300F Time & Attendance Door Access Controller

- Built-in AddPac APOS Internetworking Software
  - Scalability, Functionality, and Stability Features
- Firmware Upgradeable DSP Architecture
- OSD (On-screen Display) Function Support
- Industry Standard IP based Network Protocol Features
- Embedded Web Server
- Advanced Door Access Control Software





# Smart Web Manager (Example)

# Smart Web Manager

AP-TAC300F Time & Attendance Door Access Controller

- Main Screen
- System
  - Language
  - LAN Setup
  - DACS
  - Display
  - File Browser
- Miscellaneous
  - Door Control and Test
  - Network Test



# Smart Web Manager : Main Screen

AP-TAC300F Time & Attendance Door Access Controller

The screenshot displays the Smart Web Manager interface for the AP-TAC300F. The top navigation bar contains icons for 'Initialization', 'Rebooting', 'Save', and 'Telnet'. The main content area is divided into three sections:

- Menu Tree (Left):** A sidebar with 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 (Center):** A configuration page with two radio buttons: '한국어' (unselected) and 'English' (selected). An 'Apply' button with a green checkmark is located below the buttons.
- System Information and Help Message (Right):** A panel with two sections: 'Information' (AddPac Technology, Model: VAC50\_G2, DACS: (0), DACS Registration: Fail, SIP: 172.17.250.250(5060)) and '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

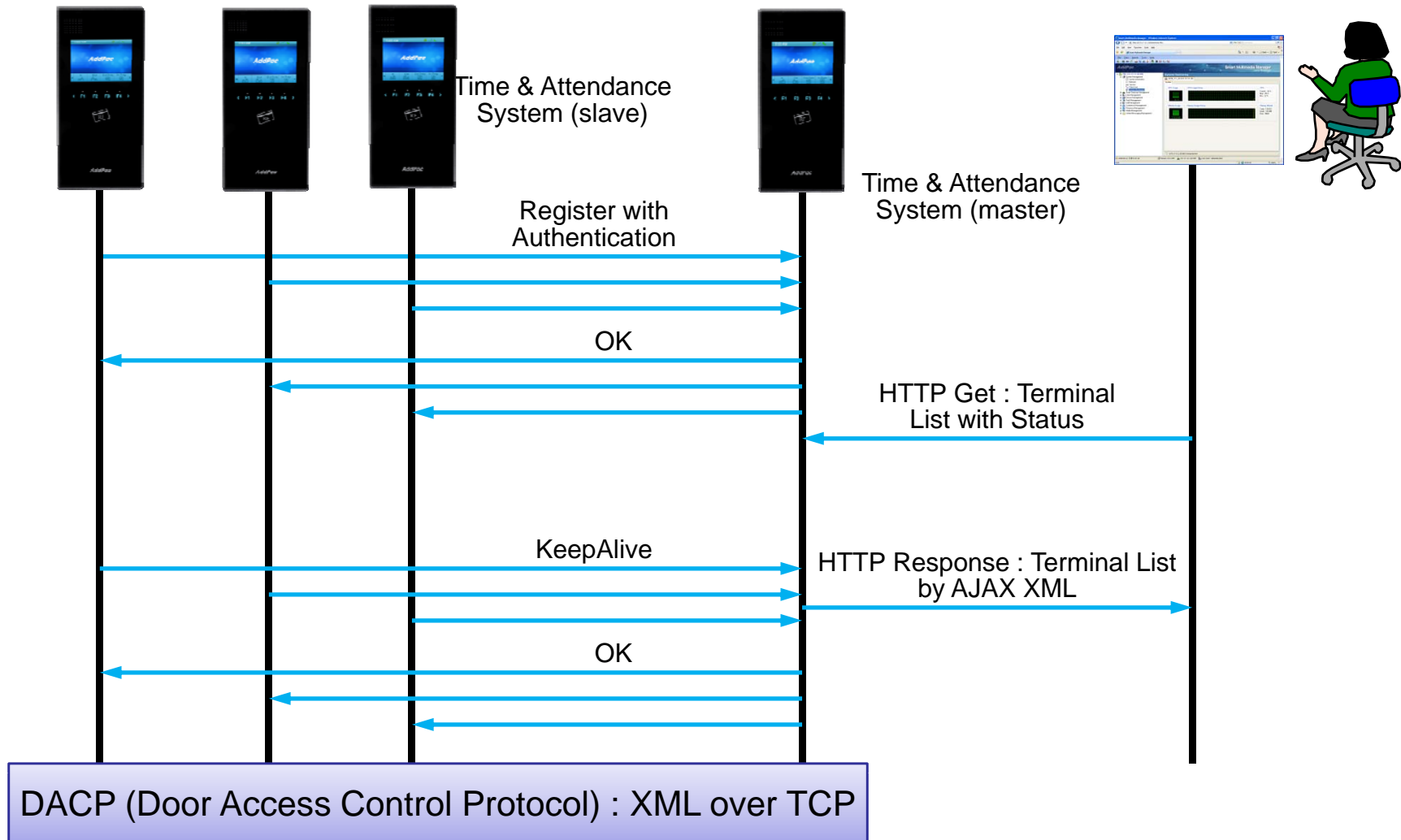




# Time & Attendance System Message Flow

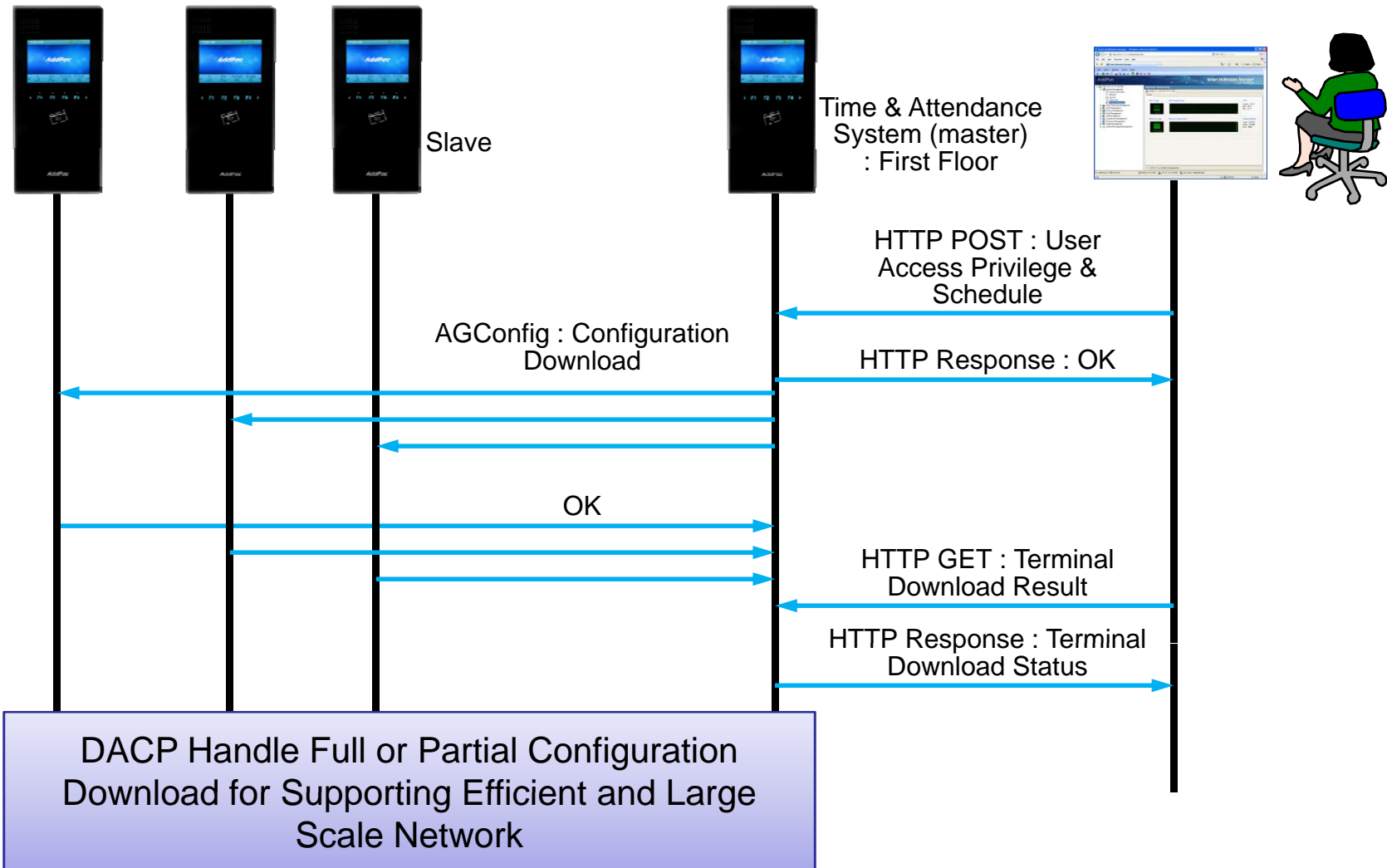
# Time & Attendance System Message Flow

## Registration and KeepAlive



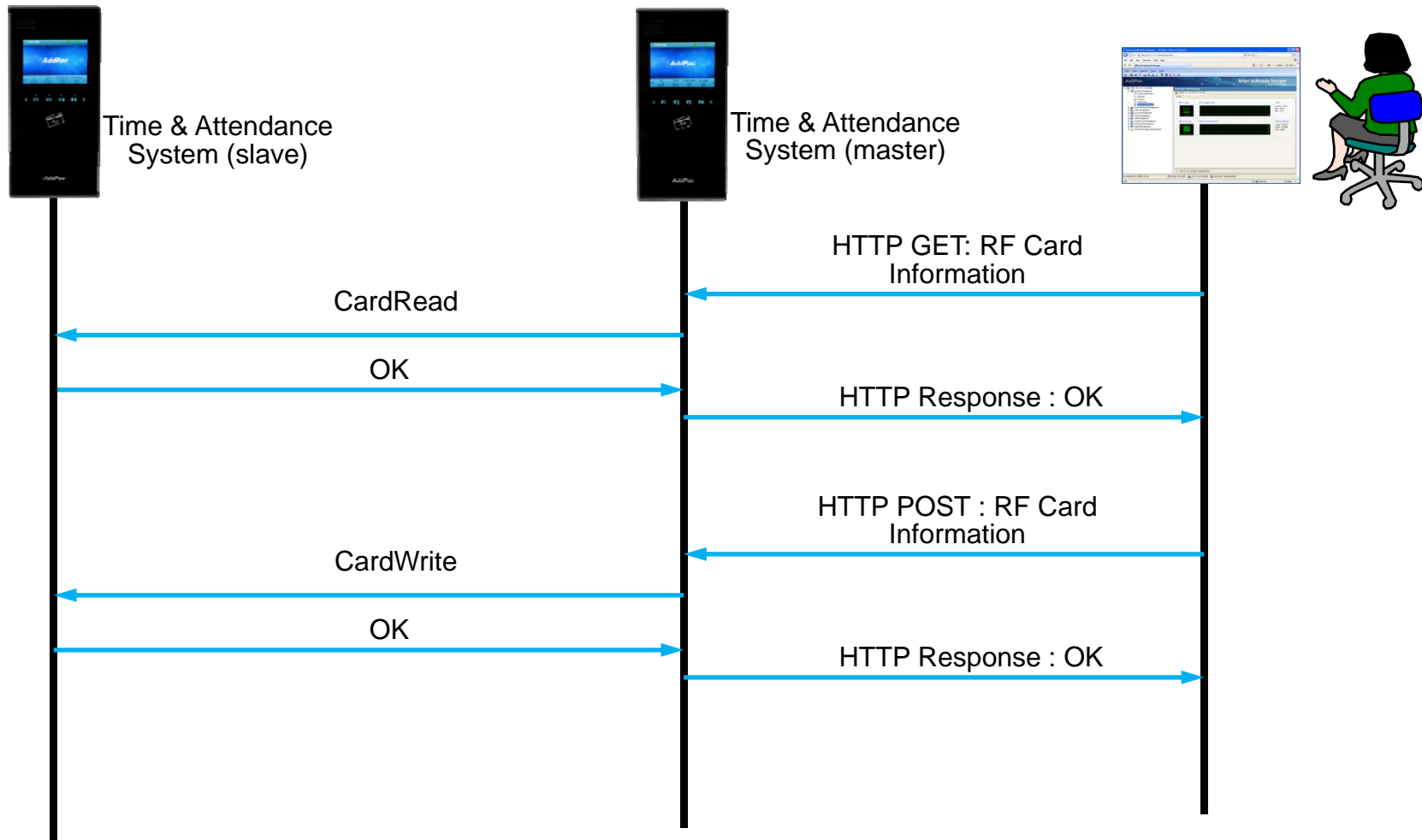
# Time & Attendance System Message Flow

## Access Privilege and Schedule Download



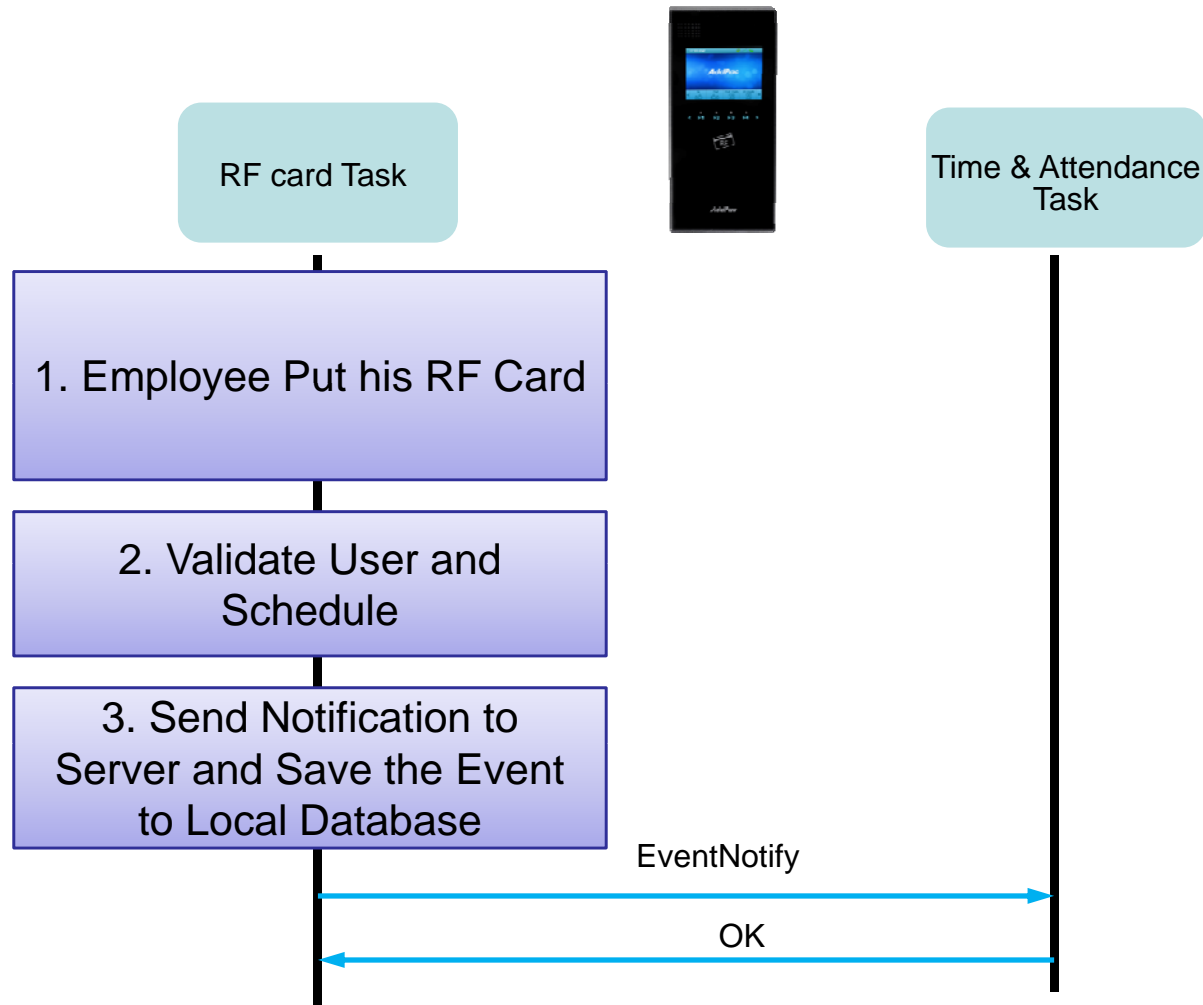
# Time & Attendance System Message Flow

## RF Card Read/Write and Registration



# Time & Attendance System Message Flow

## Door Open by RF Card

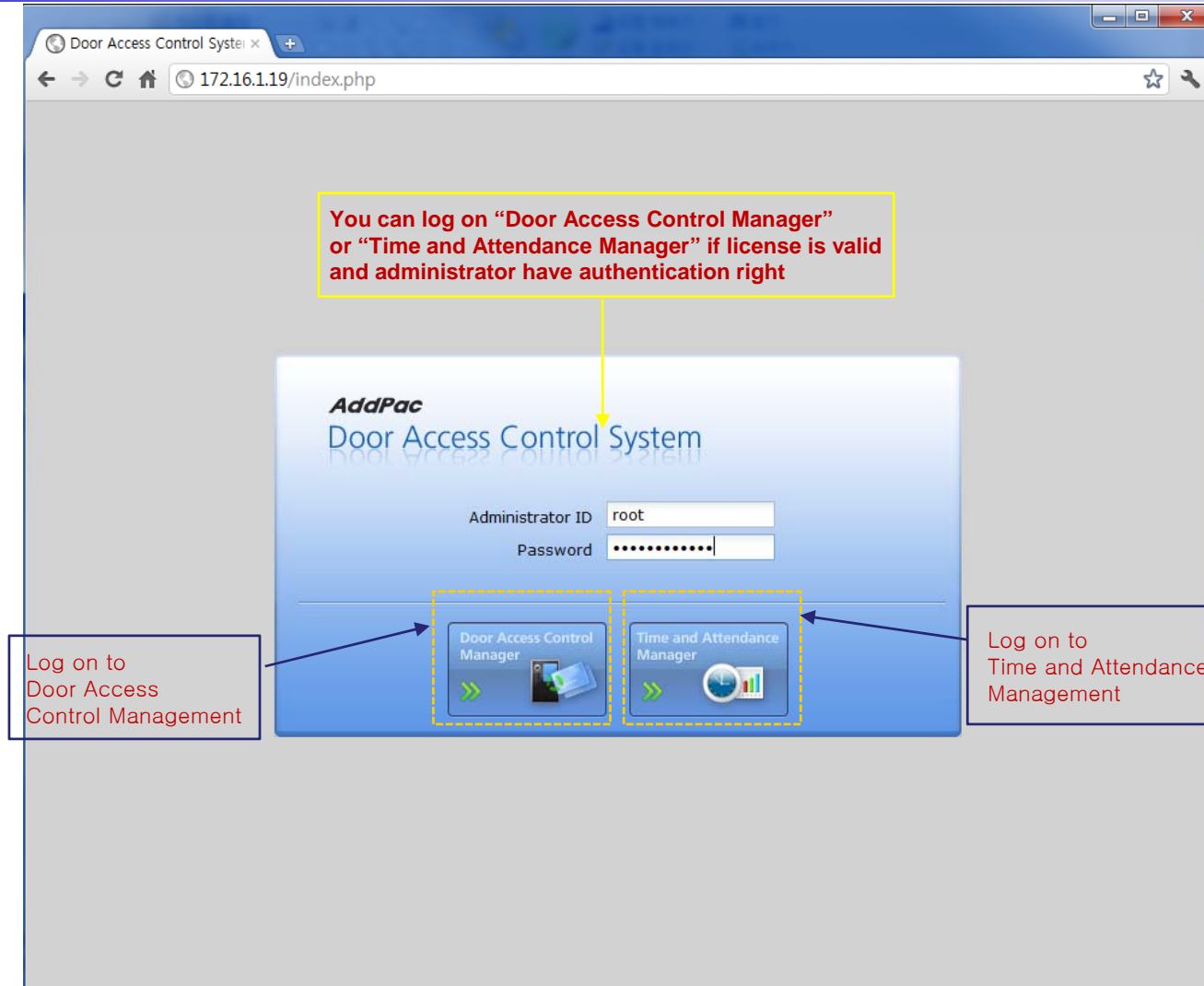




# Door Access Control Manager for AP-TAC300F

# DACS (Door Access Control System)

Login page



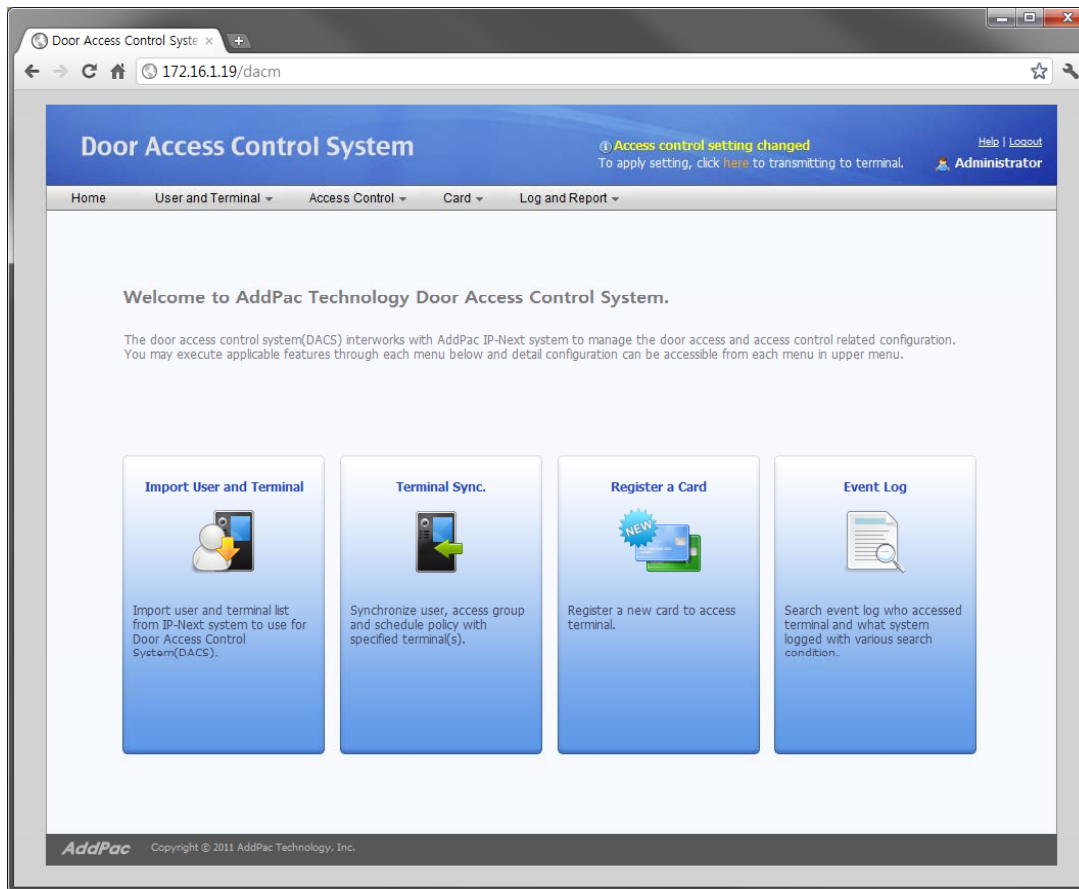


# Door Access Control Web Manager Software (DACM)



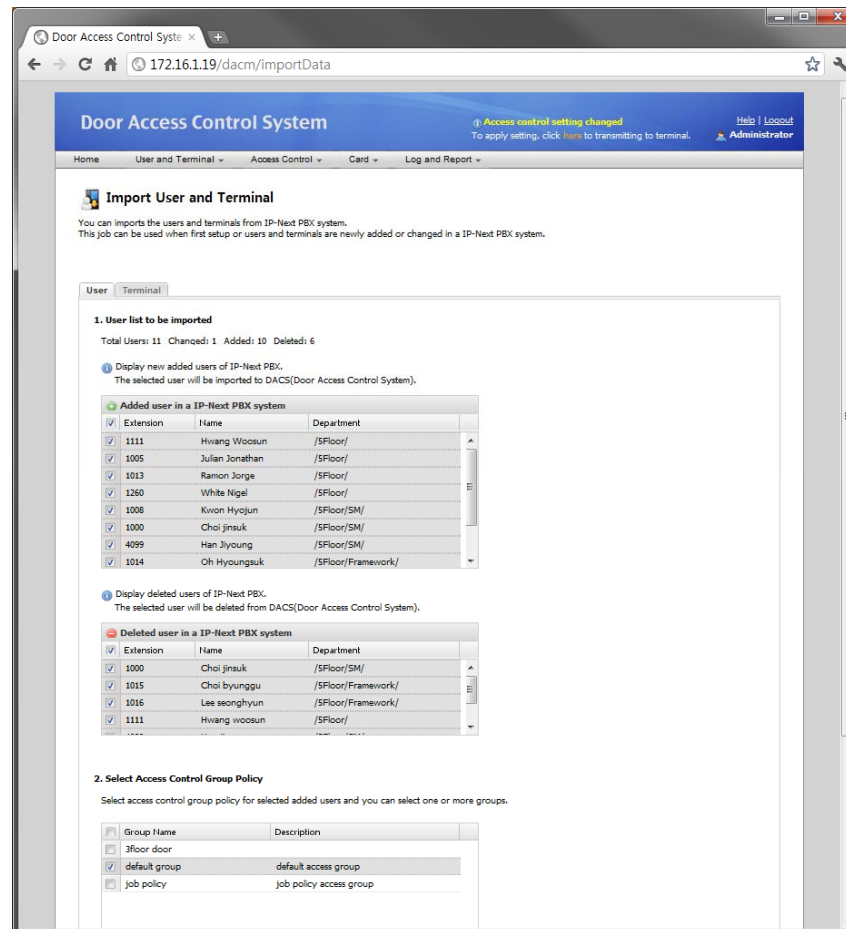
# DACM (Door Access Control Manager)

## Main Web Page



# DACM (Door Access Control Manager)

## Import User and Terminal



# DACM (Door Access Control Manager)

## User List

## User List

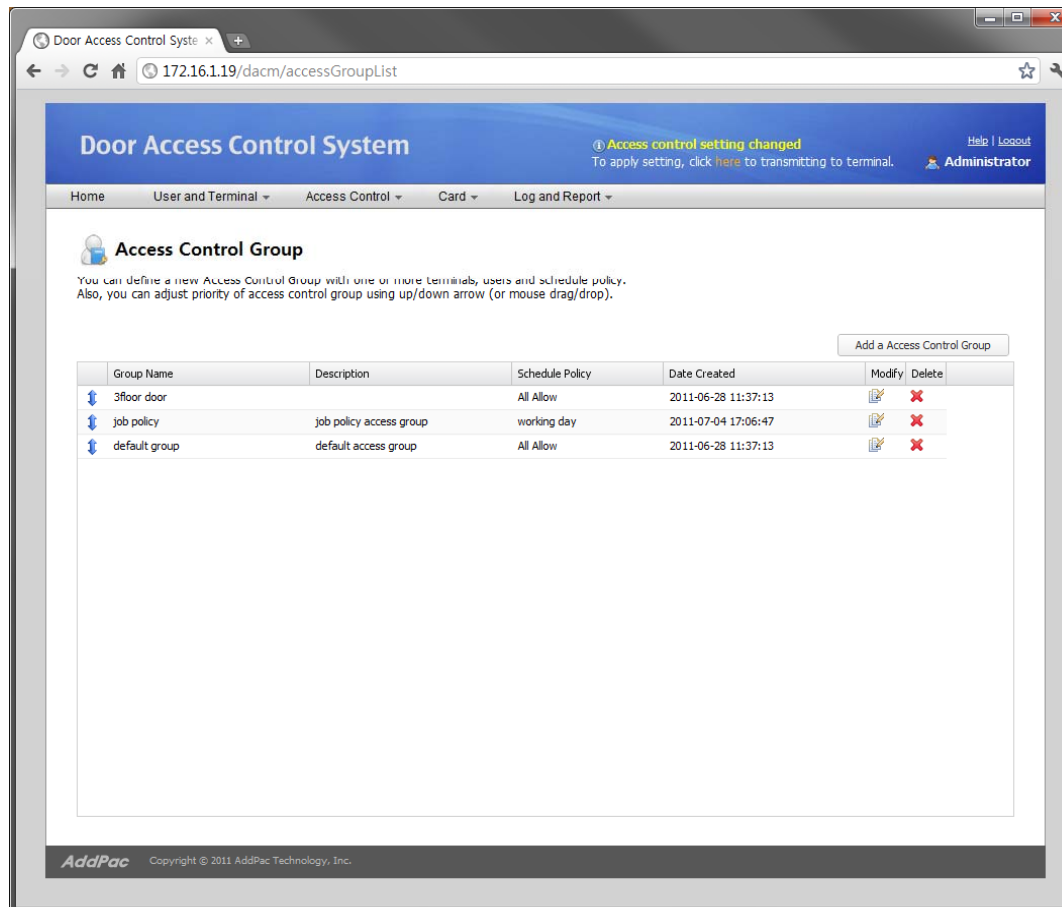
The screenshot shows a web browser window displaying the 'Door Access Control System' user list. The page title is 'Door Access Control System' and the URL is '172.16.1.19/dacm/userList'. A notification at the top right states 'Access control setting changed' with a link to 'here' and a 'Logout' button. The user is logged in as 'Administrator'. The main content area is titled 'User List' and includes a search bar with a dropdown 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

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

### Terminal Sync.

Synchronize user, access group and schedule policy with selected terminals.  
Default checked terminals have updated configurations need to be synchronized.

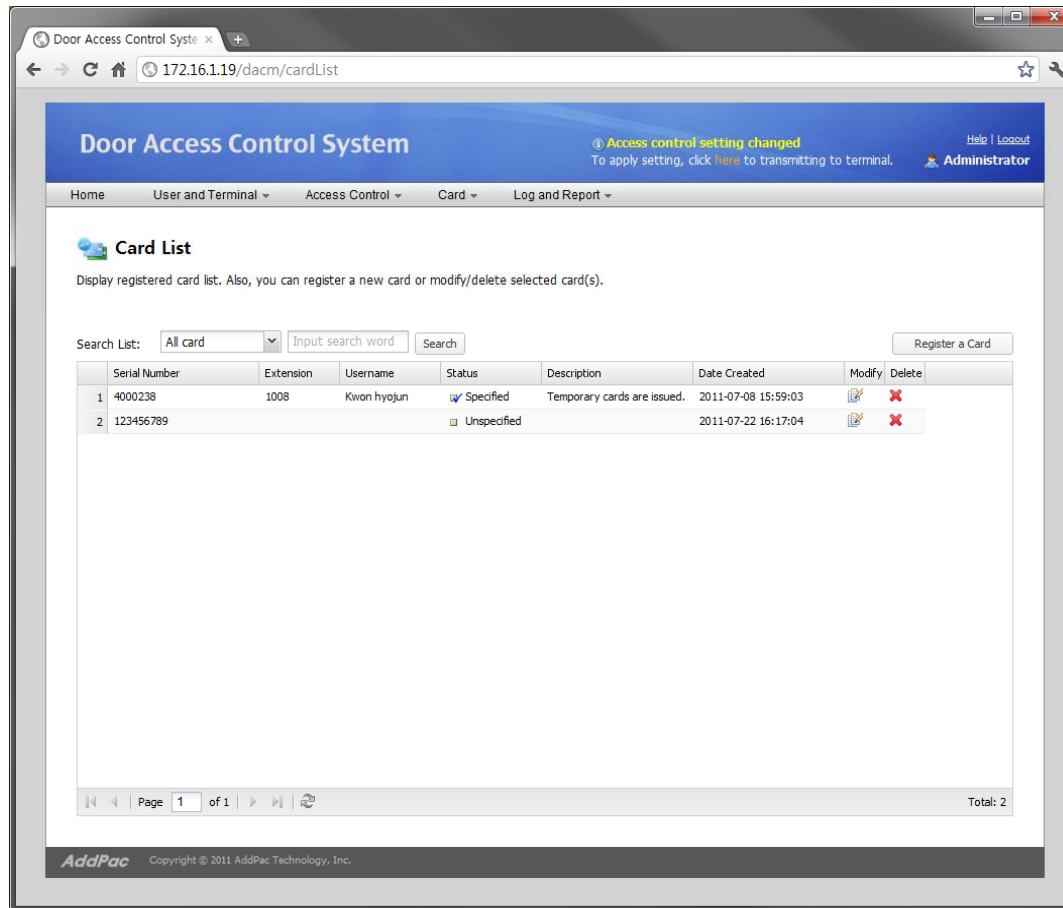
<input checked="" type="checkbox"/>	Terminal Name	IP Address	Connection Status	Sync Status
<input checked="" type="checkbox"/>	2floor door terminal	172.16.10.4	Connected	Not yet synchronized
<input checked="" type="checkbox"/>	3floor door terminal	172.16.10.1	Connected	Not yet synchronized
<input checked="" type="checkbox"/>	5floor door terminal	172.16.10.2	Connected	Not yet synchronized
<input checked="" type="checkbox"/>	The main entrance door	172.16.10.3	Connected	Not yet synchronized

To synchronize with selected terminal above, select 'Sync' button below. Select 'Cancel' button to cancel.

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# DACM (Door Access Control Manager)

## RF Card 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 1<sup>st</sup> week to 6<sup>th</sup> 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 rows of data. A dashed yellow box highlights the 'User', 'Type', 'Start', and 'End' columns for both rows. Three yellow callout boxes provide additional information: one points to the 'User' column, another to the 'Type' column, and a third to the 'Start' and 'End' columns.

**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**

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:...		

# TAAM (Time and Attendance Manager)

## Time and Attendance Codes

Door Access Control System x  
172.16.1.19/dacm/timeAttendanceCodeList

Time and Attendance Manager  
Mon Nov 7 14:44:06 2011  
Help | Logout  
root

Home Policy Trip and Vacation Report Configuration Report View

**Time and Attendance Codes**  
Shows list of user defined attendance code which can be used as correction in the attendance report.

Add a Code

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

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# 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.

**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**  
Mon Nov 7 14:52:05 2011  
Help | Logout  
root

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)**

attendance summary for each time and attendance code with specified date

Type	Count
Late In	1
Early Out	1
Normal	10

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

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		

# TAAM (Time and Attendance Manager)

## Attendance Report Excel Export

The screenshot shows an Excel spreadsheet titled "Attendance Report by Date (2011-10-19)". The spreadsheet contains the following data:

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



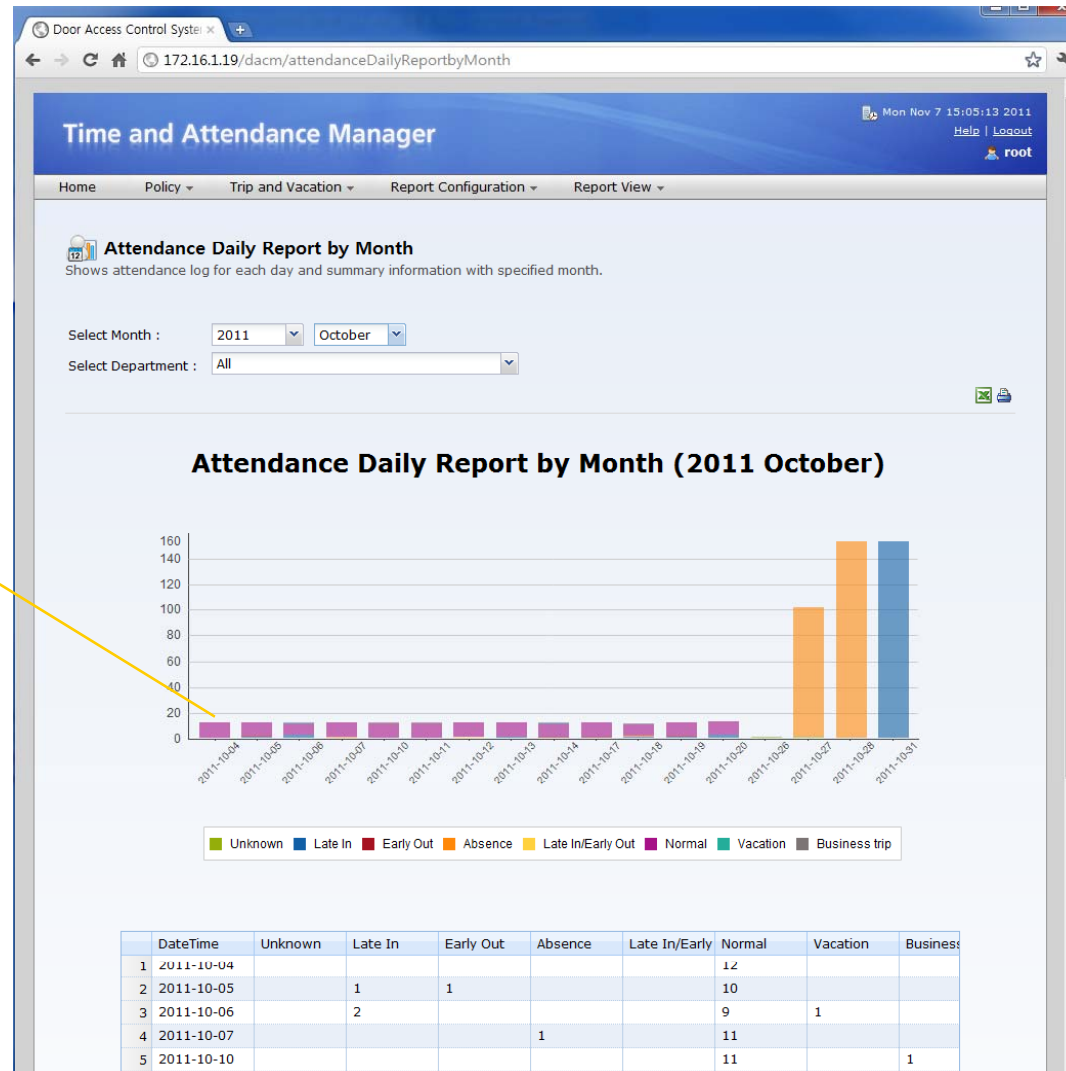
attendance summary for each time and attendance code with specified month

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**

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

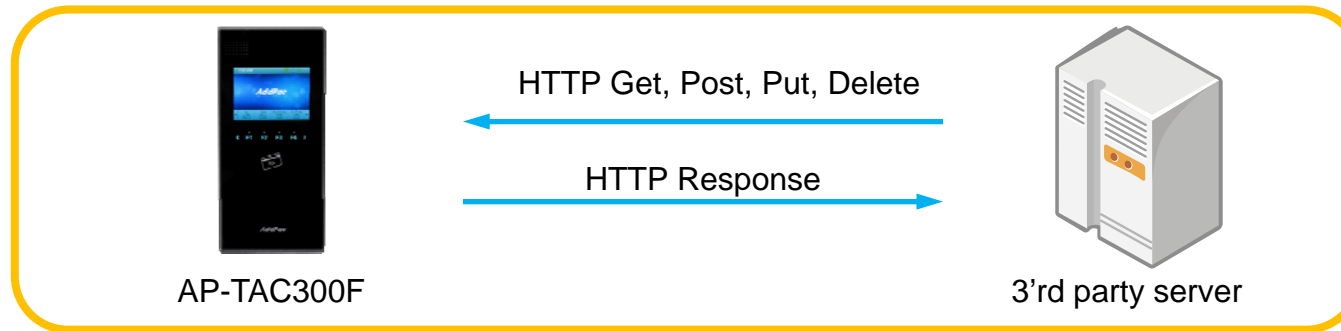
attendance summary for time and attendance code of a extension user



# Open API

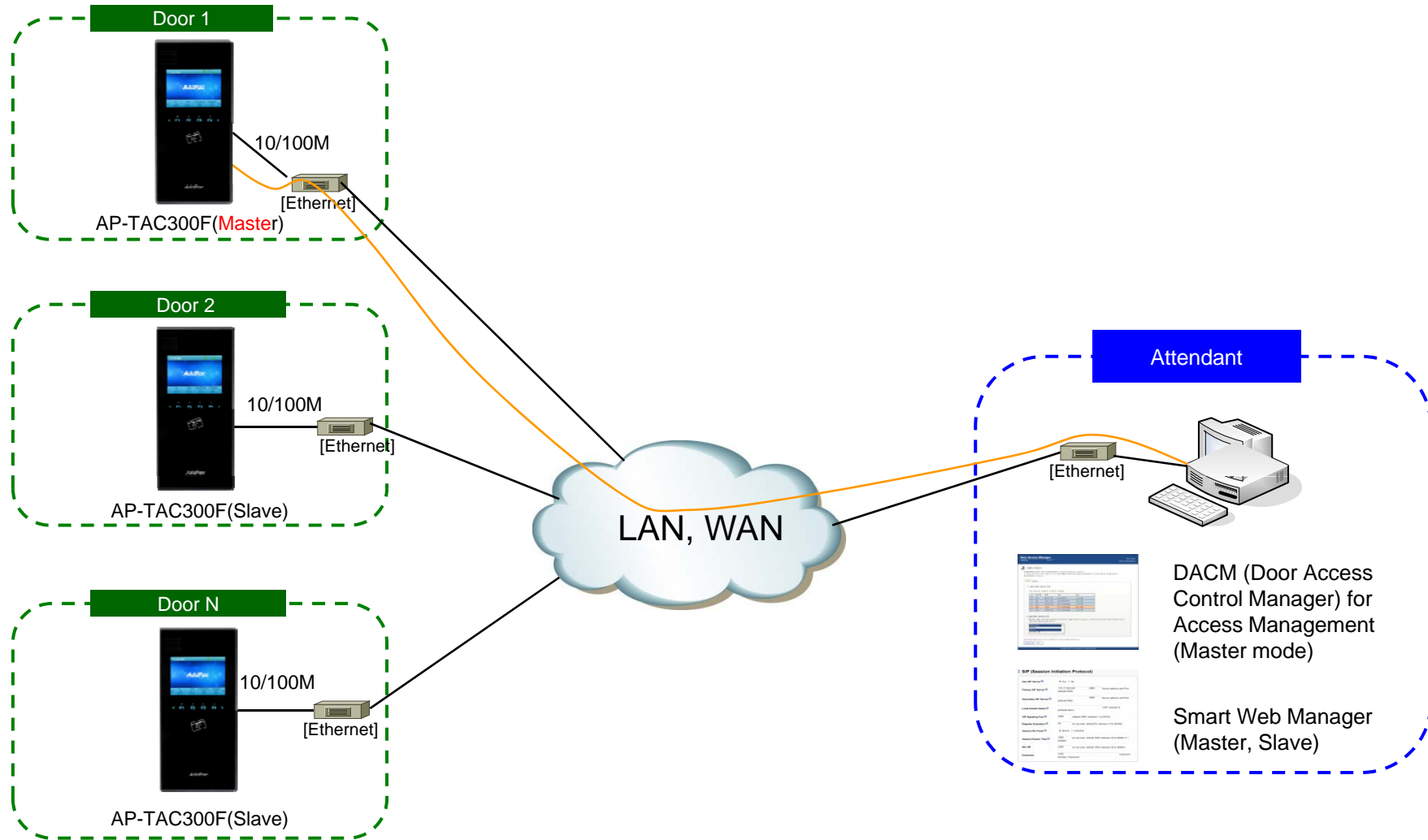
# Open API

## 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 Network Diagram



# Ordering Information

- **AP-TAC300F Time & Attendance Door Access Controller Hardware**
  - AP-TAC300F Main Body
  - RISC Microprocessor with High-end Programmable DSP Architecture
  - 3.5 Inch LCD
  - RF card Interface
  - STILL Chassis
  - 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-TAC300F**
- **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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