# AP-TAC200 Time Attendance Door Access Controller

High Performance Time & Attendance Door Access Controller Solution





AddPac Technology

2014, Sales and Marketing

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- Hardware Specification
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#### **Product Overview**

#### AP-TAC200 Time & Attendance Door Access Controller

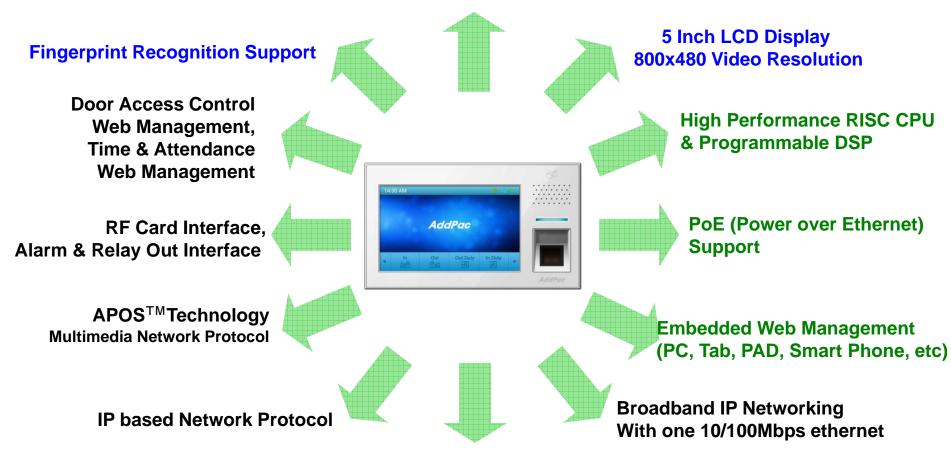
- Smart Time and Attendance Access Controller Solution
- High Performance Fingerprint Recognition Solution
- TFT Color LCD, Internal Speaker
- High Quality 5 Inch LCD, 800 x 480 Video Resolution
- RF Card Support
- One(1) 10/100Mbps Fast Ethernet
- PoE(Power over Ethernet) Support
- Powerful Network 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
- Firmware Upgradeable Architecture



#### **Product Highlights**

AP-TAC200 Time & Attendance Door Access Controller

#### **Smart Time and Attendance Controller**

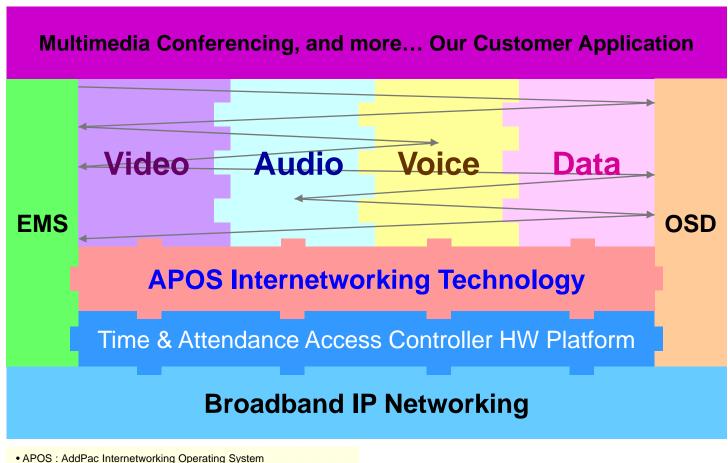


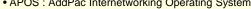
**Touch Screen and Compact Chassis** 



#### Multimedia Service

AP-TAC200 Time & Attendance Door Access Controller





• OSD : On- Screen Display

• EMS: Element Management System



RISC High-end DSP

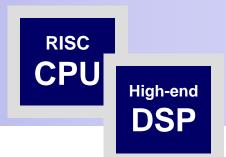
AP-TAC200 Time & Attendance Door Access Controller

- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
  - Internal Speaker
- TFT Color LCD Interface
  - 5 Inch LCD, 800x480 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





AP-TAC200 Time & Attendance Door Access Controller



#### 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

#### 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

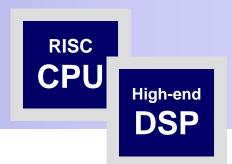
- 1-W BTL Output(5V, 0.11 % THD+N)
- Uncompensated Gains of 2 to 20 (BTL Mode)
- Thermal and Shot-circuit Protection
- High Supply Ripple Rejection Ratio

#### PoE(Power over Ethernet)

- IEEE802.3af compliant,
- Input voltage range 36V to 57V
- Short-circuit Protection



AP-TAC300 Time & Attendance Door Access Controller



#### RF Card Sensor

Protocol Supported

ISO14443A/B all bit rates

> 106,212,424 and 848 kbps

Compatible to MiFare Classic

ISO15693 all modes

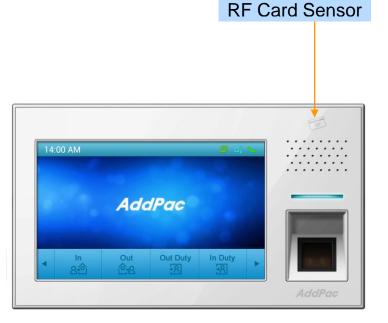
- > 1.65/6.6 & 26.5 kbps
- > Uplink 1 & 2 sub-carrier

#### 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

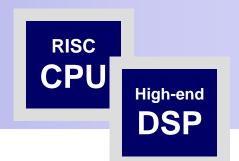
#### Transmitter

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





AP-TAC200 Time & Attendance Door Access Controller



#### 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



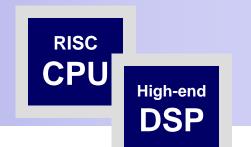


AP-TAC200 Time & Attendance Door Access Controller

#### Front Side

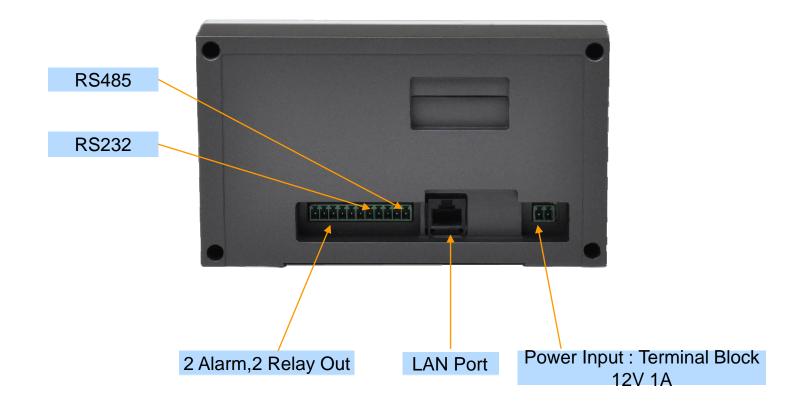






AP-TAC200 Time & Attendance Door Access Controller

#### **Back Side**







AP-TAC200 Time & Attendance Door Access Controller

High-end DSP

**Power Supply** 



Example

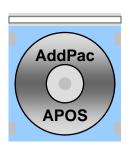




#### Software Service

#### AP-TAC200 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-TAC200 Time & Attendance Door Access Controller

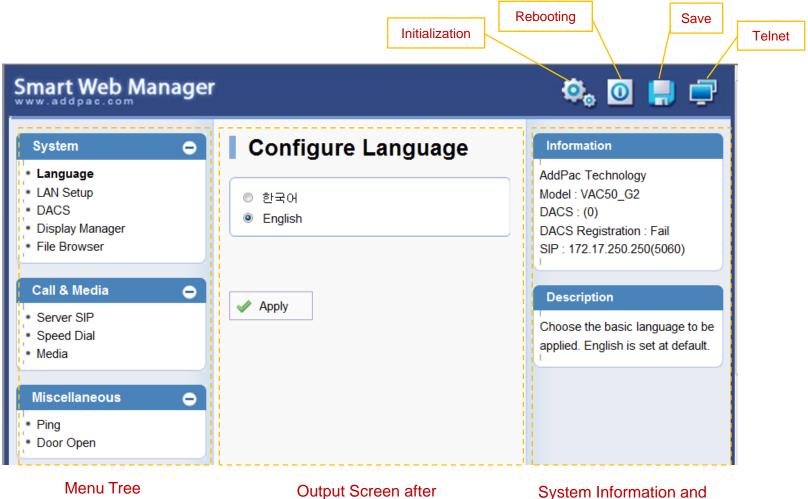
- Main Screen
- System
  - Language
  - LAN Setup
  - DACS
  - Display
  - File Browser
- Miscellaneous
  - Door Control and Test
  - Network Test





#### Smart Web Manager: Main Screen

AP-TAC200 Time & Attendance Door Access Controller

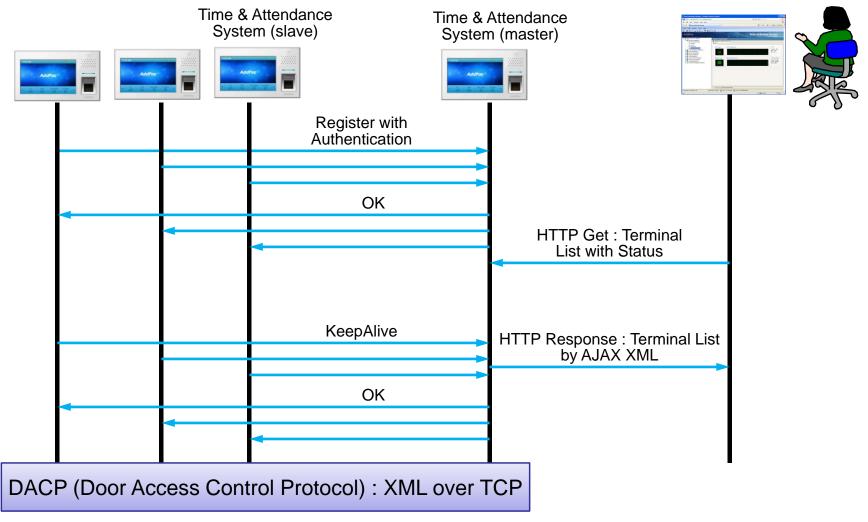




Output Screen after Menu Select System Information and Help Message

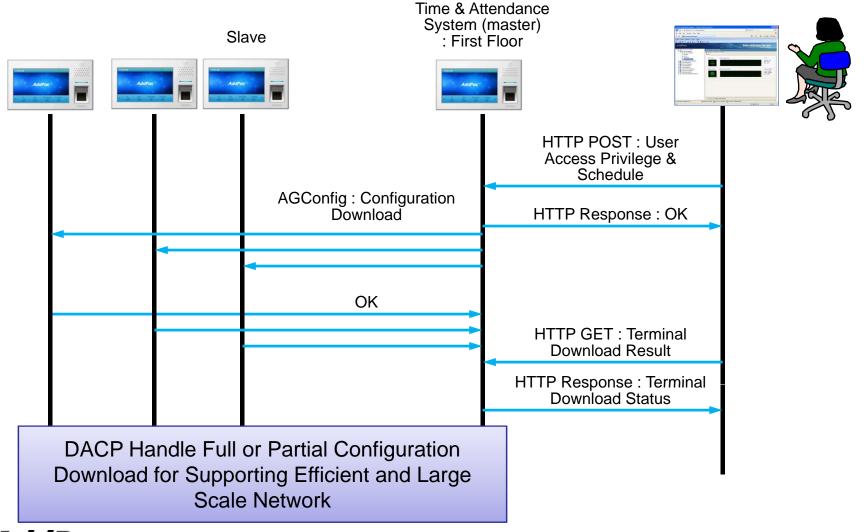


Registration and KeepAlive

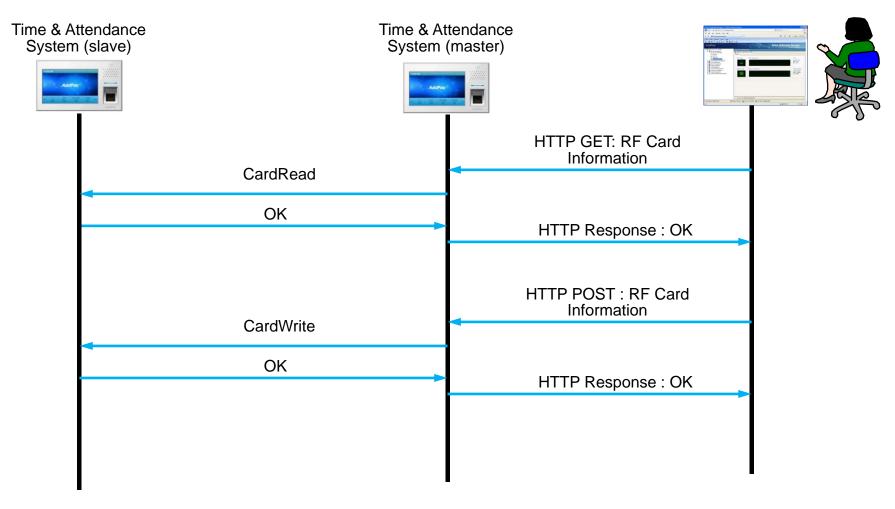


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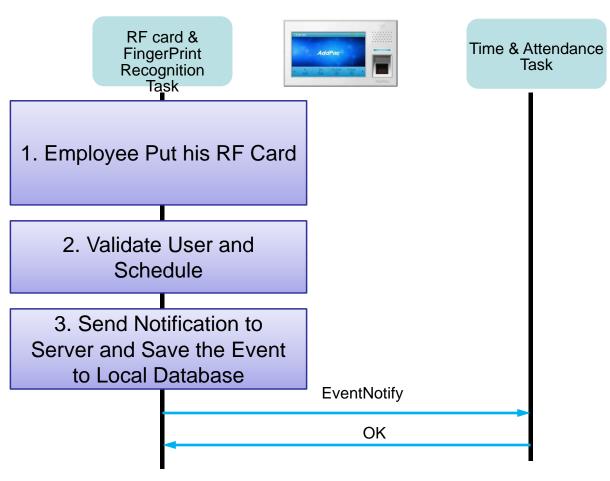
Access Privilege and Schedule Download



RF Card Read/Write and Registration



Door Open by RF Card





# Door Access Control Manager for AP-TAC200



## DACS (Door Access Control System)

Login page

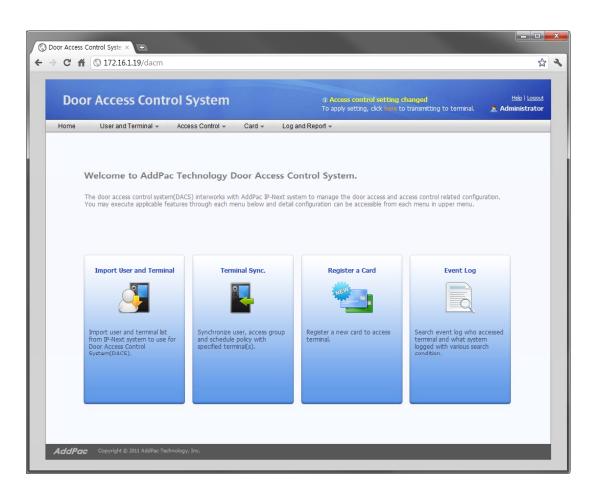




## Door Access Control Web Manager Software (DACM)

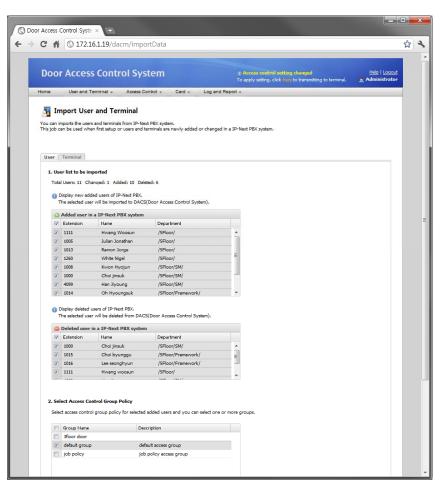


Main Web Page





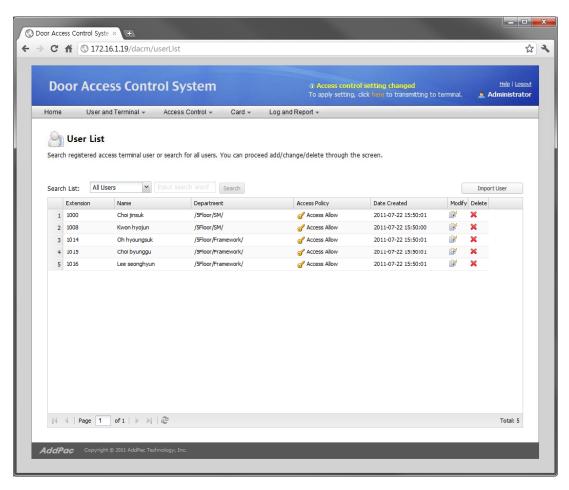
**Import User and Terminal** 





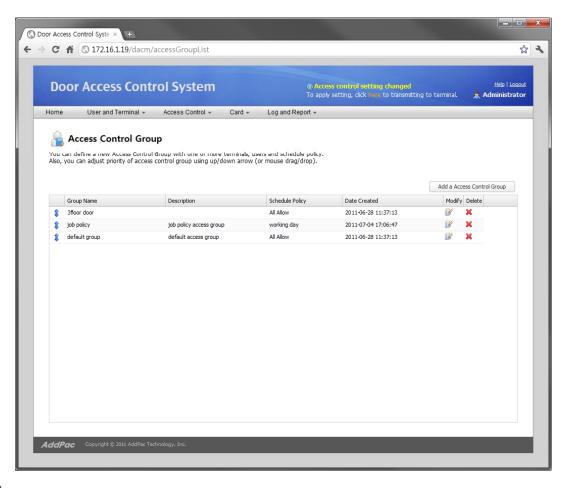
**User List** 

#### **User List**



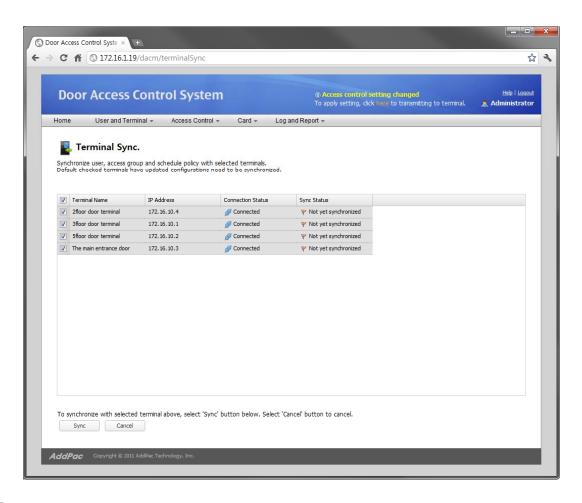


Access Control Group Management





Configuration Download to Terminal



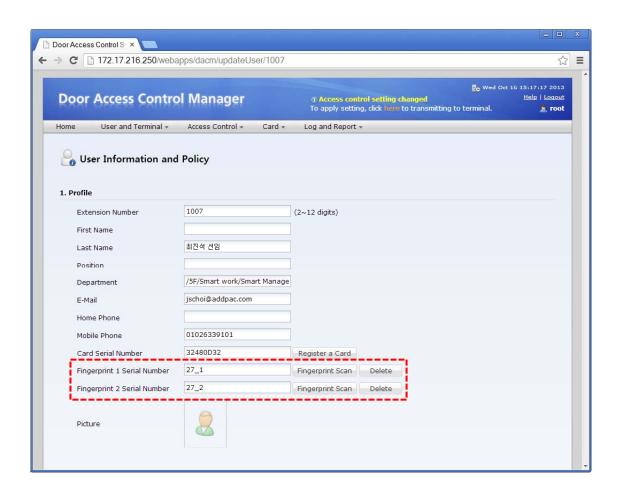


**RF Card Management** 





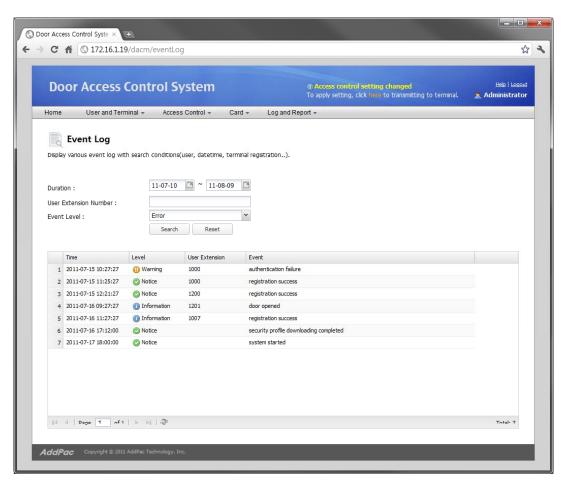
Fingerprint Management





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Access Log Management



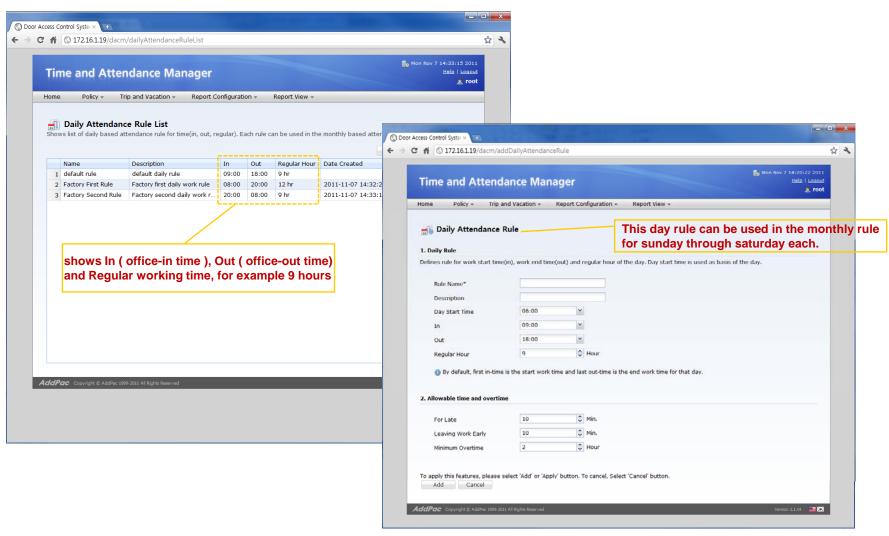


## Time Attendance Web Manager Software (TAAM)



## TAAM (Time and Attendance Manager)

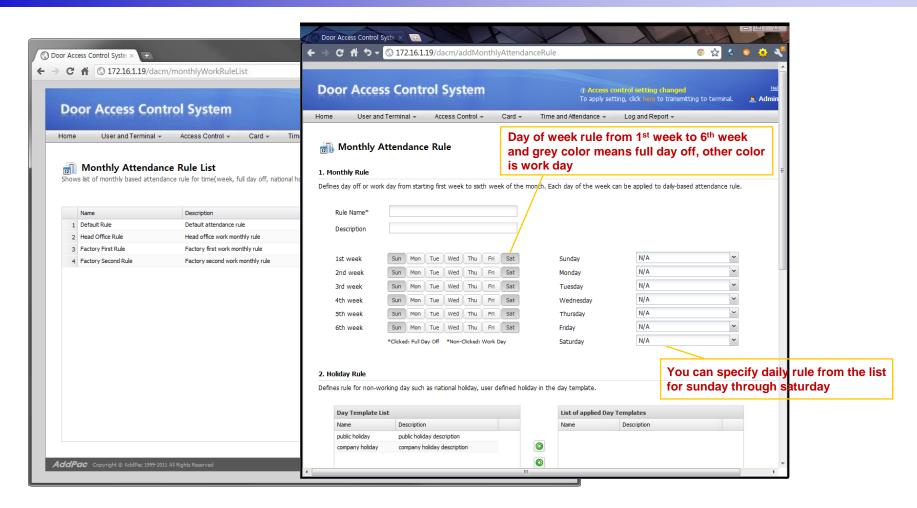
#### Daily Attendance Rules





## TAAM (Time and Attendance Manager)

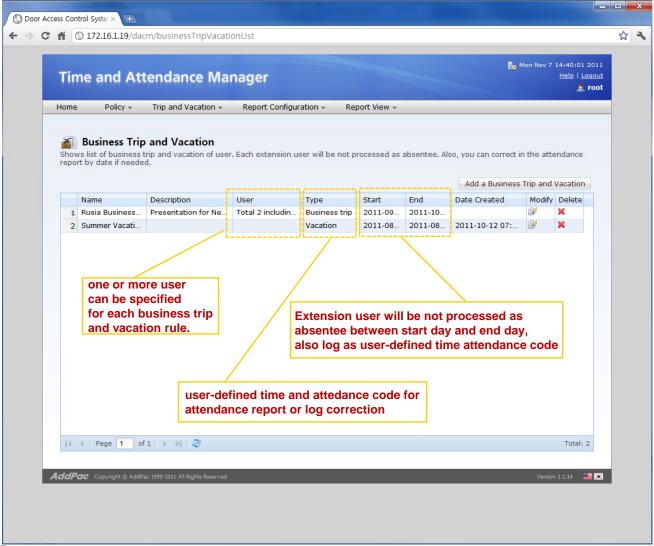
Monthly Attendance Rules



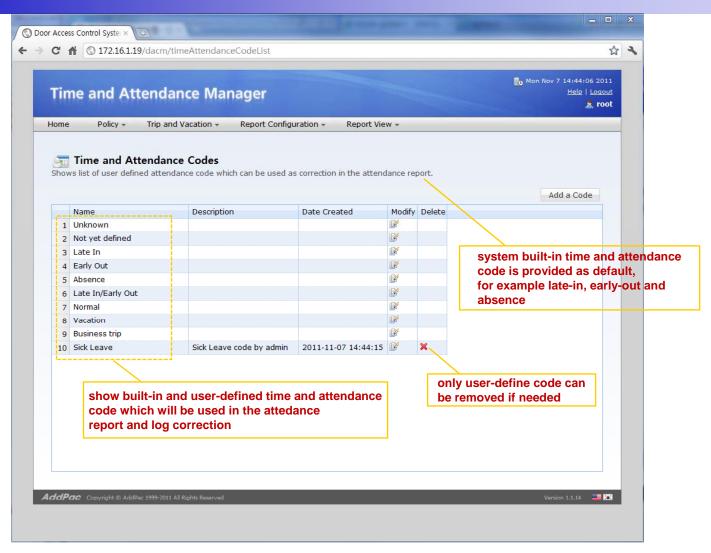


## TAAM (Time and Attendance Manager)

**Business Trip and Vacation** 

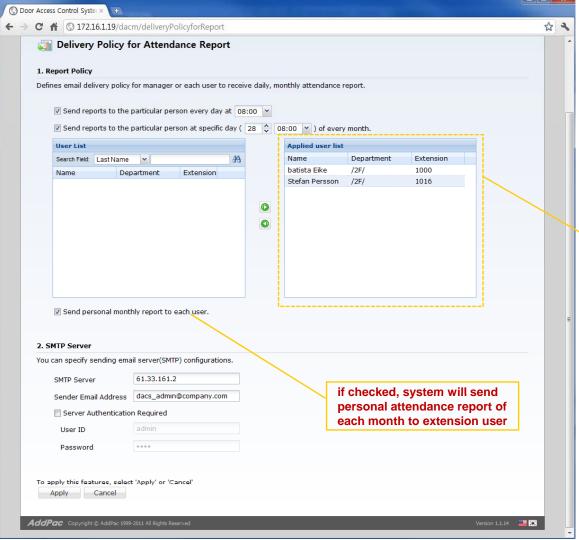


Time and Attendance Codes





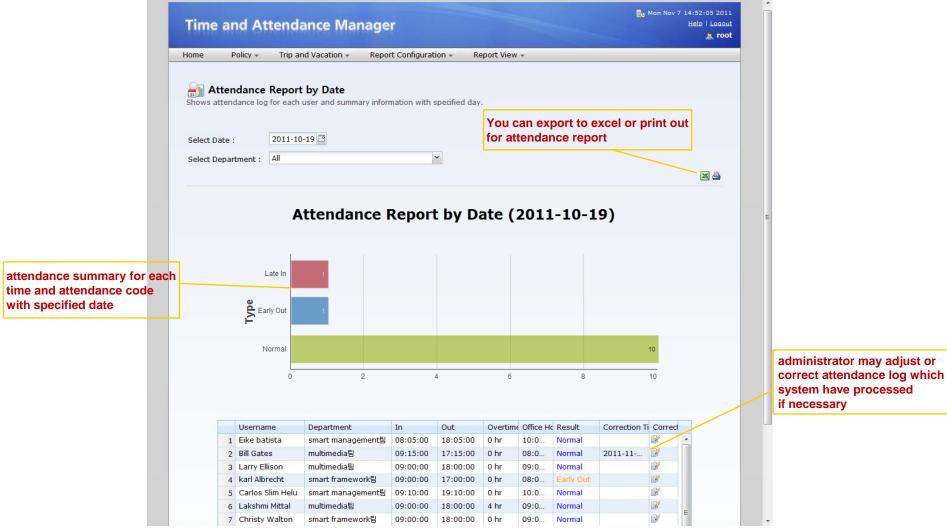
**Delivery Policy for Attendance Report** 



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

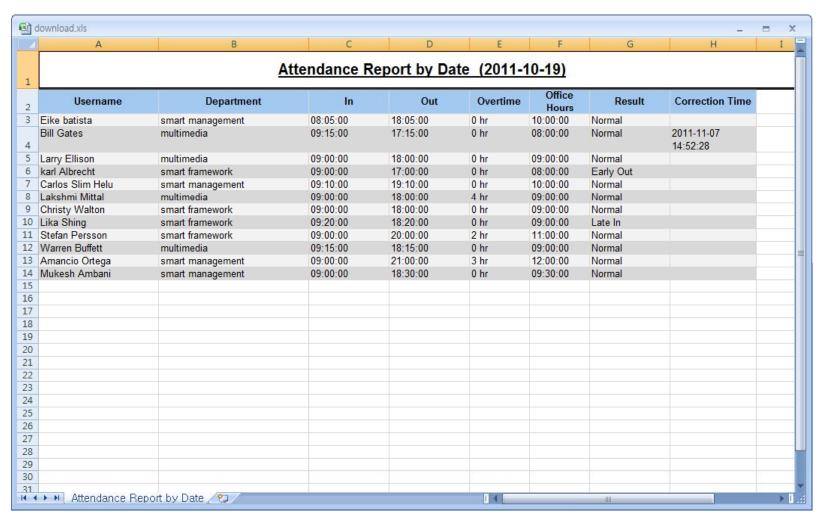


Attendance Report by Date



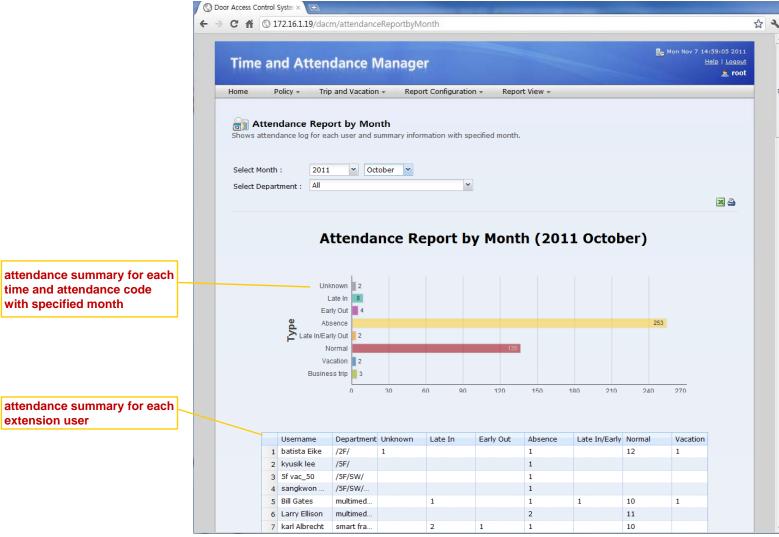


Attendance Report Excel Export



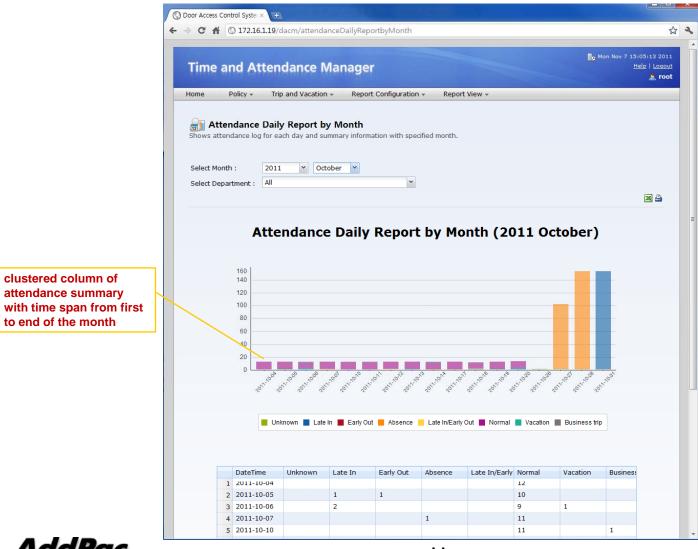


Attendance Report by Month



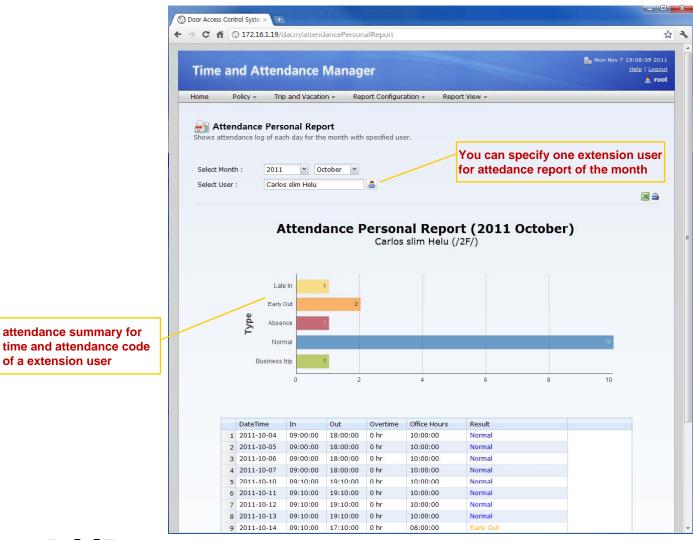


Attendance Daily Report by Month





**Attendance Personal Report** 





attendance summary for

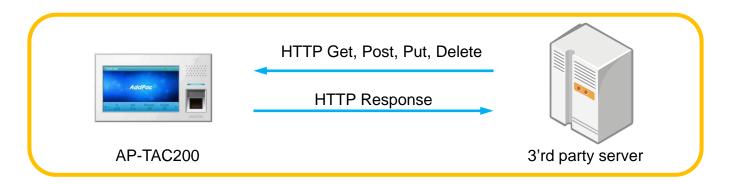
of a extension user

## Open API



## Open API

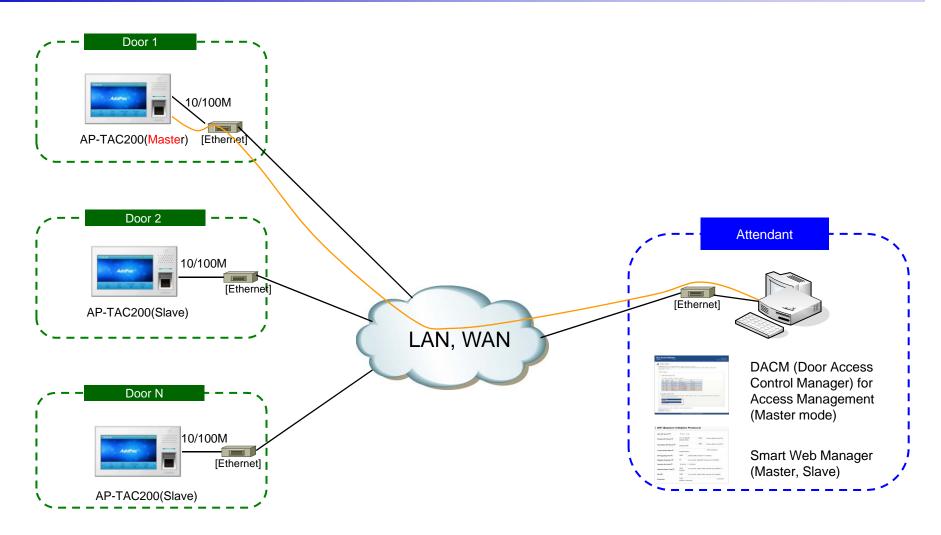
#### Open API for 3'rd Party Management System



- 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-TAC200 Time & Attendance Door Access Controller Hardware
  - AP-TAC200 Main Body
  - RISC Microprocessor with High-end Programmable DSP Architecture
  - 5 Inch LCD
  - Fingerprint Recognition, RF card Interface
  - 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-TAC200
- 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!

# AddPac Technology Co., Ltd. Sales and Marketing

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