# AP-TAC500 Time Attendance Door Access Controller

High Performance Time & Attendance Door Access Controller Solution





AddPac Technology

2015, Sales and Marketing

#### Contents

- Product Overview
- Product Highlights
- Hardware Specification
- Software Service
- Smart Web Manager
- Door Access Control Manager
- Time and Attendance Web Manager
- Application Network Diagram
- Ordering Information



#### **Product Overview**

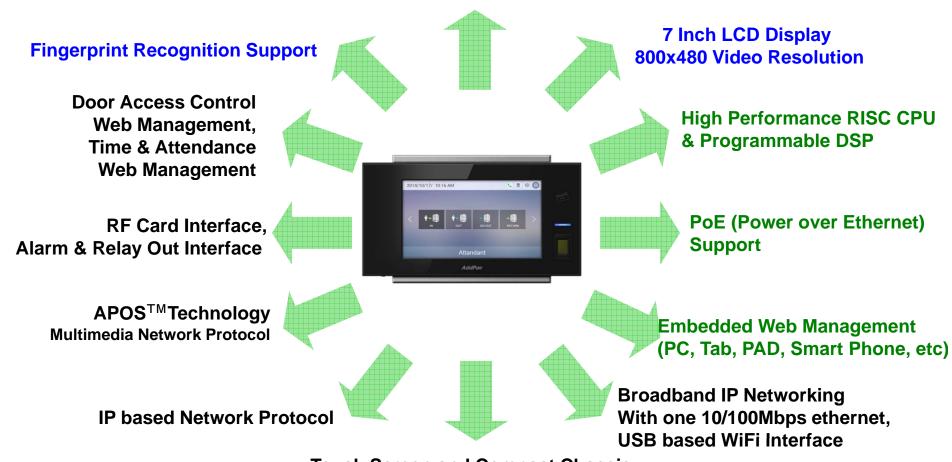
- Smart Time and Attendance Access Controller Solution
- High Performance Fingerprint Recognition Solution
- TFT Color LCD, Internal Speaker
- High Quality 7 Inch LCD, 800 x 480 Video Resolution
- RF Card Support
- One(1) 10/100Mbps Fast Ethernet
- USB based WiFi Interface (Option)
- PoE(Power over Ethernet) 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-TAC500 Time & Attendance Door Access Controller

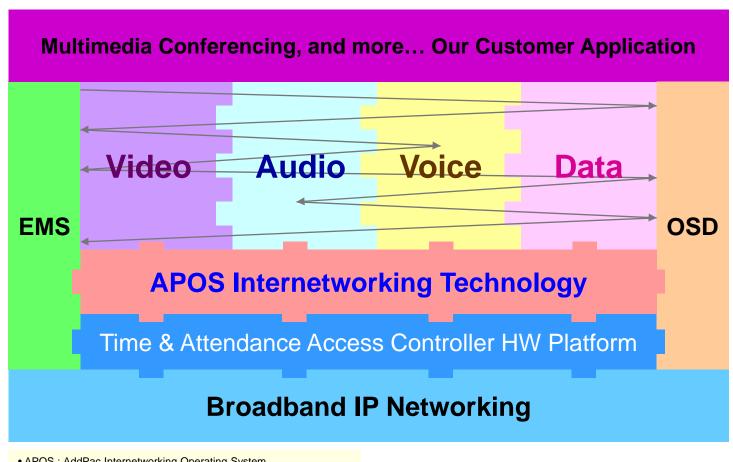
#### **Smart Time and Attendance Controller**



**Touch Screen and Compact Chassis** 

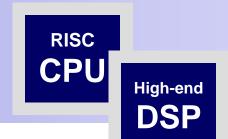


#### Multimedia Service



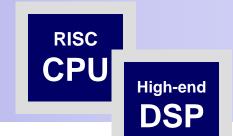
- APOS: AddPac Internetworking Operating System
- OSD : On- Screen Display
- EMS: Element Management System





- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
  - Internal Speaker
- TFT Color LCD Interface
  - 7 Inch LCD, 800x480 Video Resolution
- Network Interface
  - One(1) 10/100Mbps Fast Ethernet
  - USB based WiFi Interface
- Fingerprint Recognition Interface (No Option : AP-TAC500F)
- RF Card Interface
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS485 Interface
- Power Supply
  - Power over Ethernet (Option)
  - External Power Supply

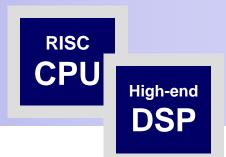




Model Service Features	AP-TAC500	AP-TAC500F
Time & Attendance Service	Support	Support
LCD	7 inch LCD	7 inch LCD
RF Card	Support	Support
Fingerprint	Support	N/A
Alarm & Relay Port	Support	Support
Speaker	Support	Support
LAN Port	1	1
USB WiFi Interface (option)	Support	Support
PoE(Option)	Support	Support



AP-TAC500 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

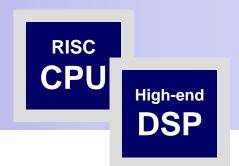
- 1-W BTL Output(5V, 0.11 % THD+N)
- Uncompensated Gains of 2 to 20 (BTL Mode)
- Thermal and Shot-circuit Protection
- High Supply Ripple Rejection Ratio

#### PoE(Power over Ethernet)

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



AP-TAC500 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

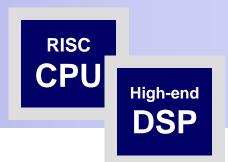
#### Transmitter

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-TAC500 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

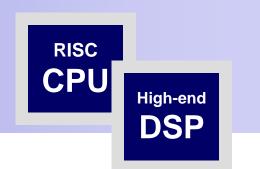
Encryption: 256bit AES



Fingerprint Recognition



AP-TAC500 Time & Attendance Door Access Controller

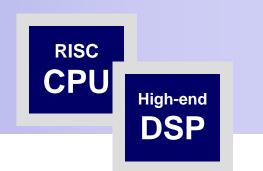


#### Front Side





AP-TAC500 Time & Attendance Door Access Controller



## Front Side AP-TAC800F Model

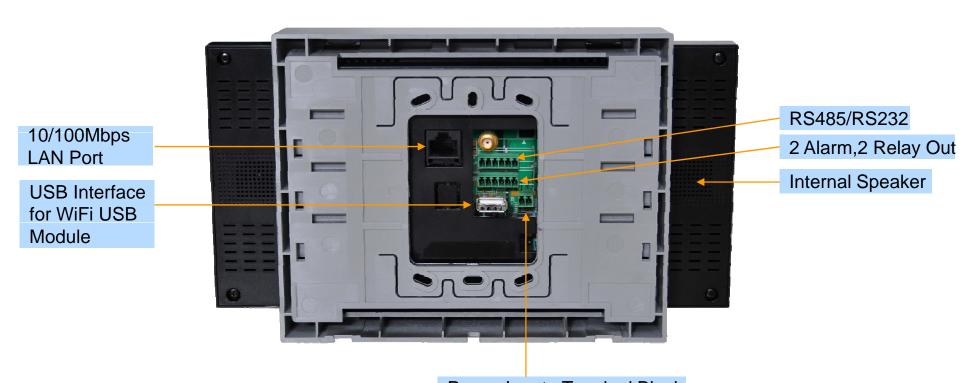






AP-TAC500 Time & Attendance Door Access Controller

#### **Back Side**



Power Input : Terminal Block 12V 1A





AP-TAC500 Time & Attendance Door Access Controller

High-end DSP

**Power Supply** 



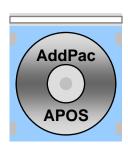
Example





#### Software Service

- 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)



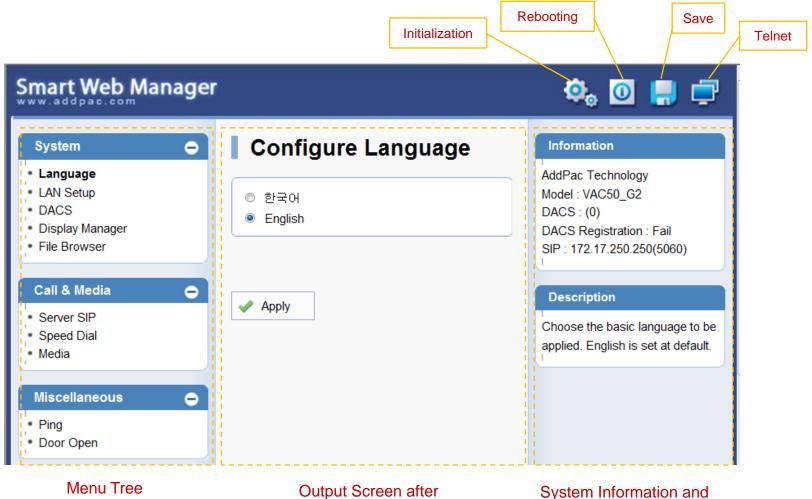
### Smart Web Manager

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



### Smart Web Manager: Main Screen

AP-TAC500 Time & Attendance Door Access Controller



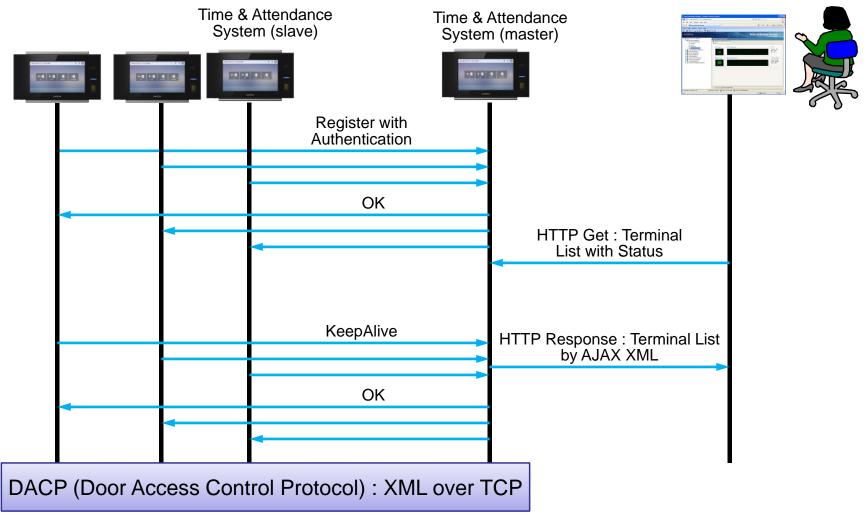


Output Screen after Menu Select

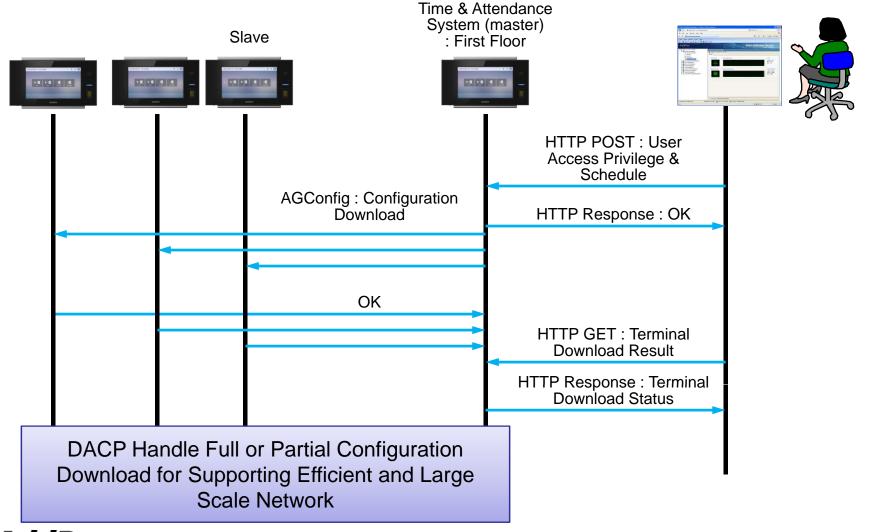
System Information and Help Message



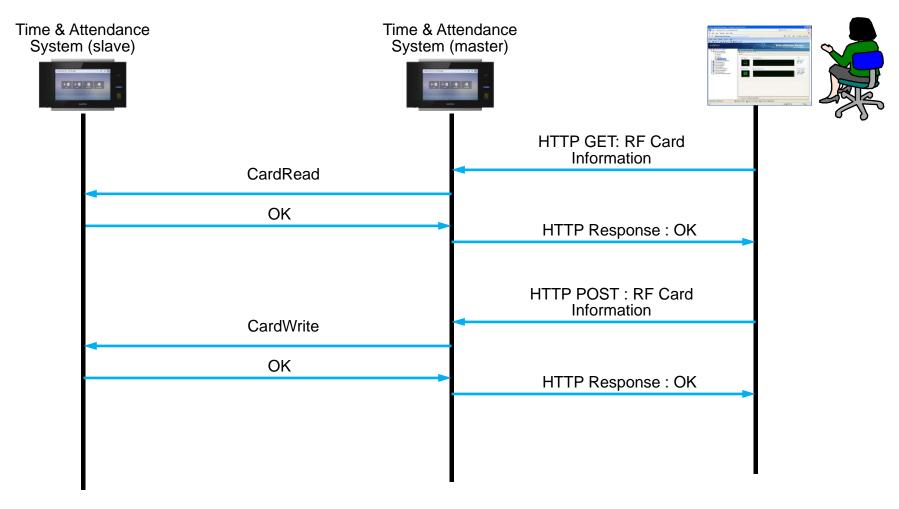
Registration and KeepAlive



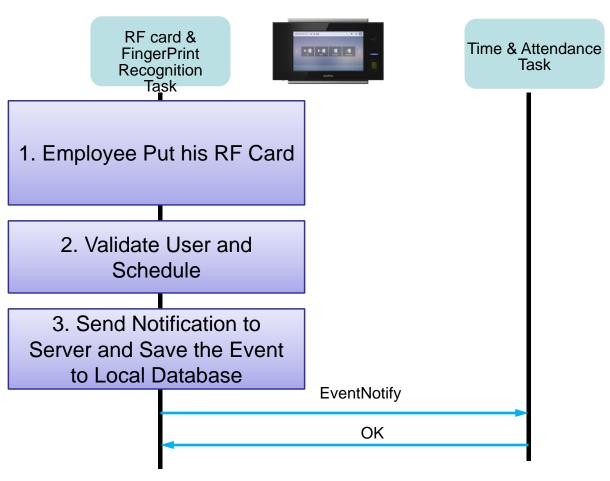
Access Privilege and Schedule Download



RF Card Read/Write and Registration



Door Open by RF Card



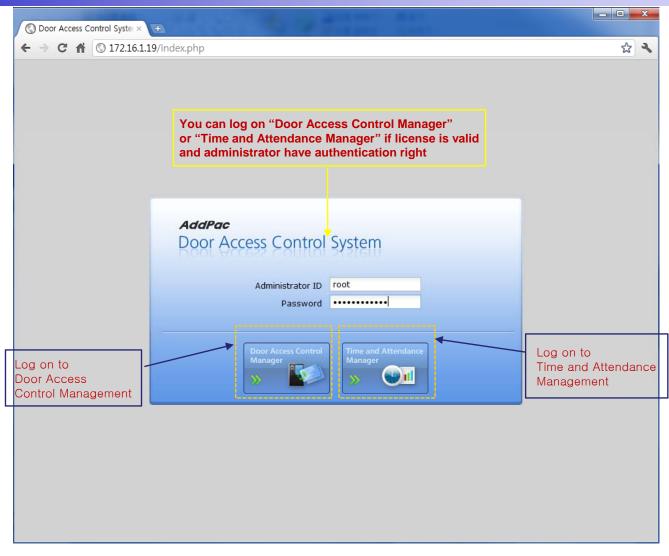


# Door Access Control Manager for AP-TAC500



### DACS (Door Access Control System)

Login page

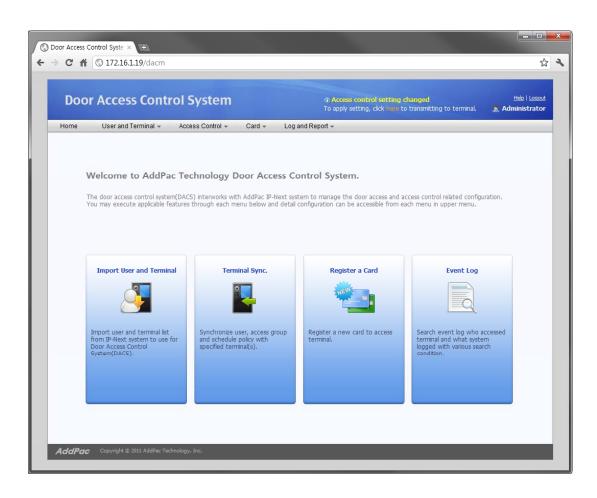




## Door Access Control Web Manager Software (DACM)

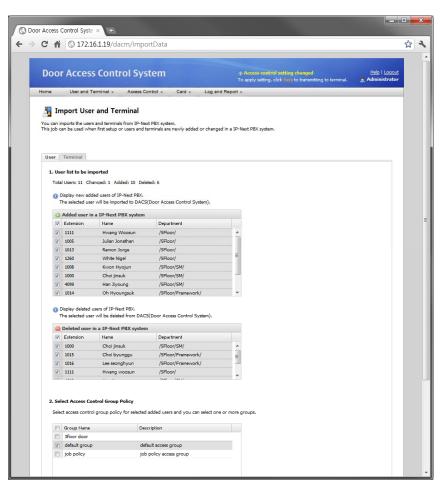


Main Web Page





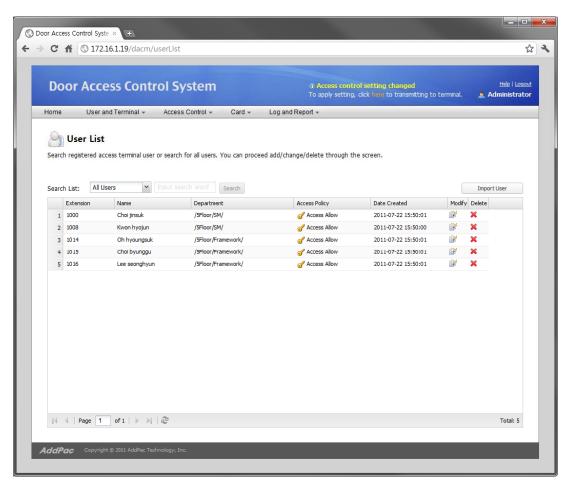
**Import User and Terminal** 





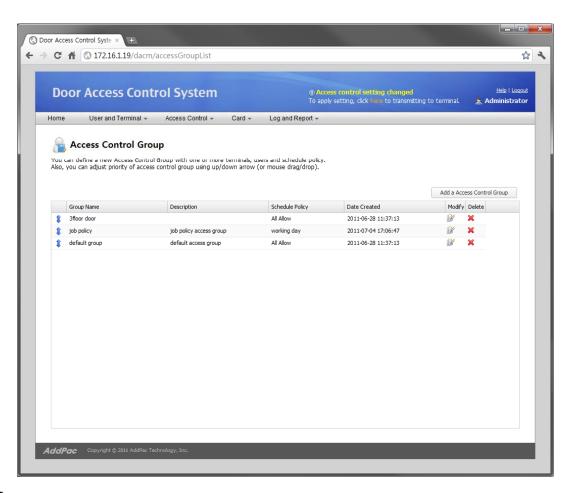
**User List** 

#### **User List**



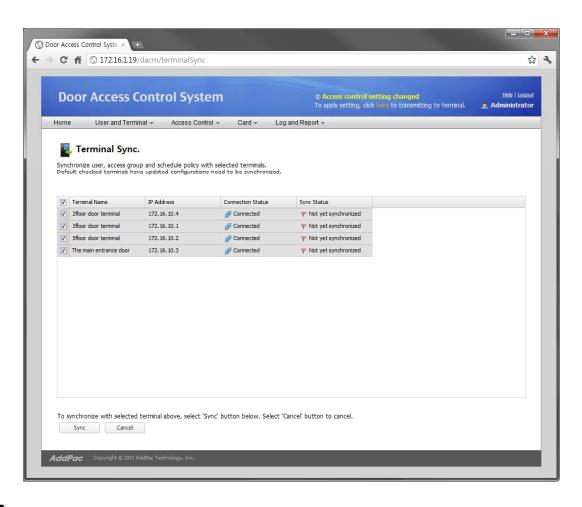


Access Control Group Management





Configuration Download to Terminal



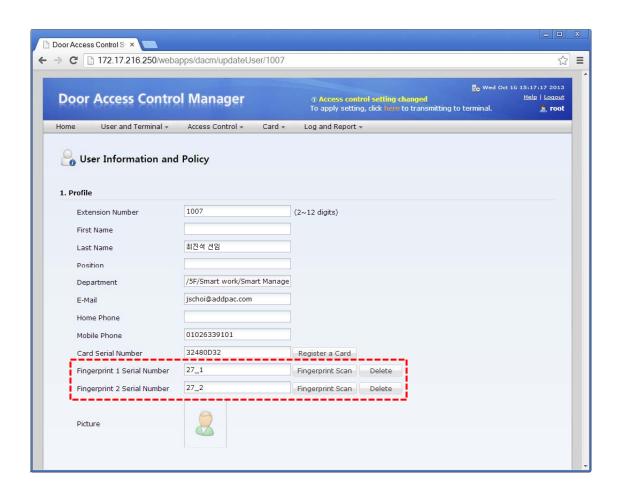


**RF Card Management** 



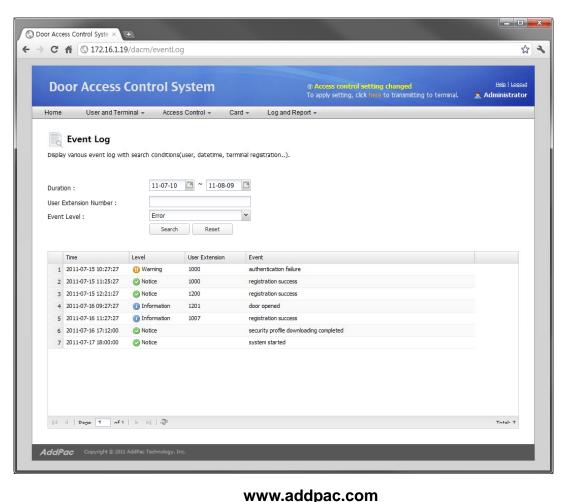


Fingerprint Management





Access Log Management



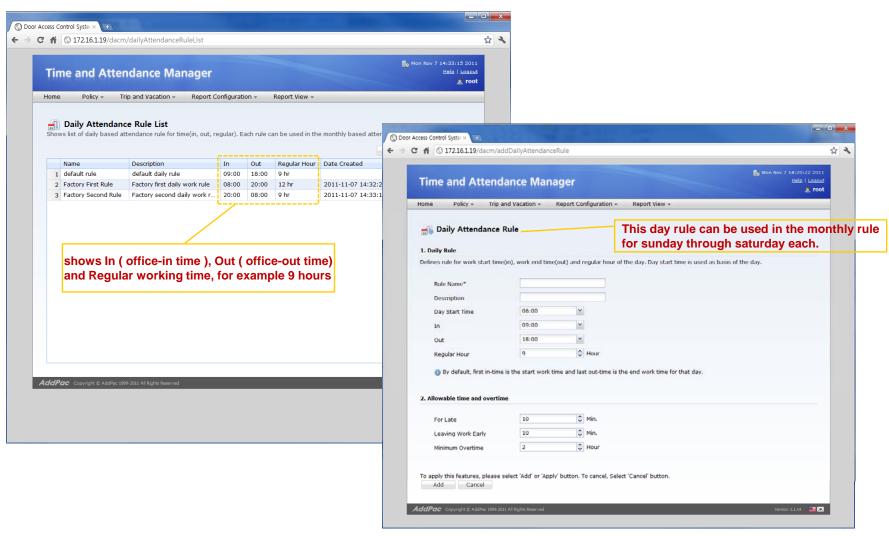


# Time Attendance Web Manager Software (TAAM)



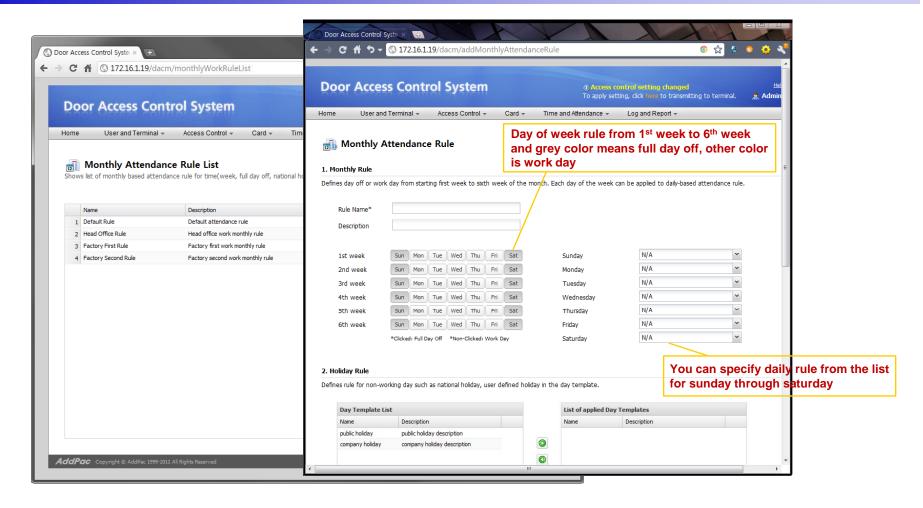
### TAAM (Time and Attendance Manager)

#### Daily Attendance Rules





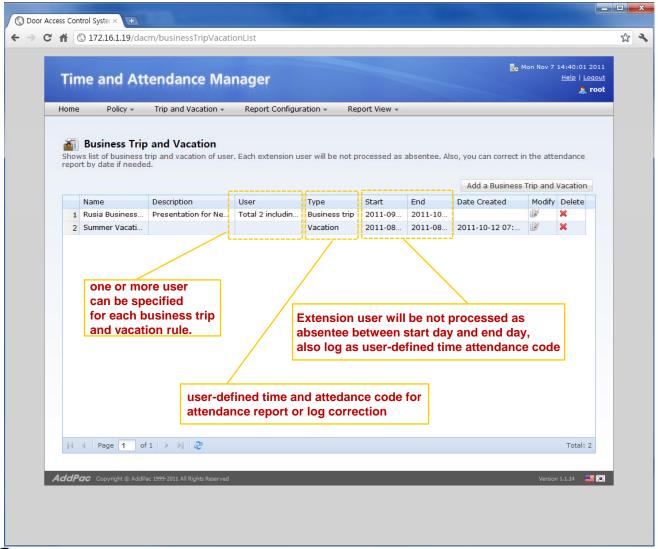
Monthly Attendance Rules



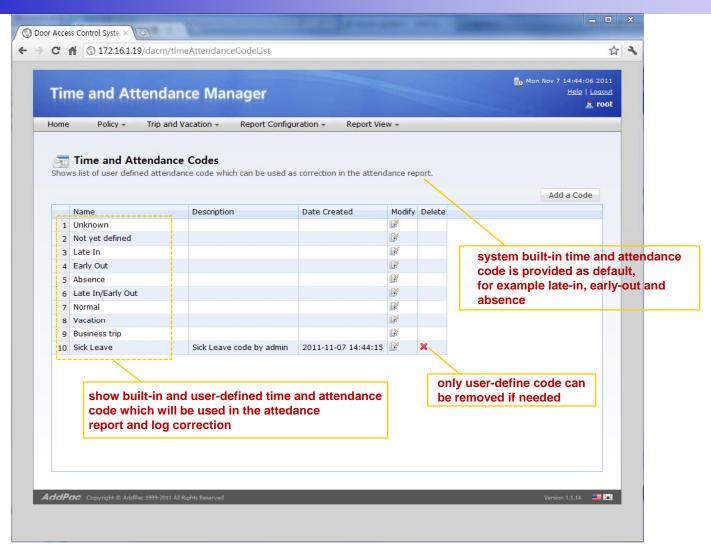
www.addpac.com



**Business Trip and Vacation** 

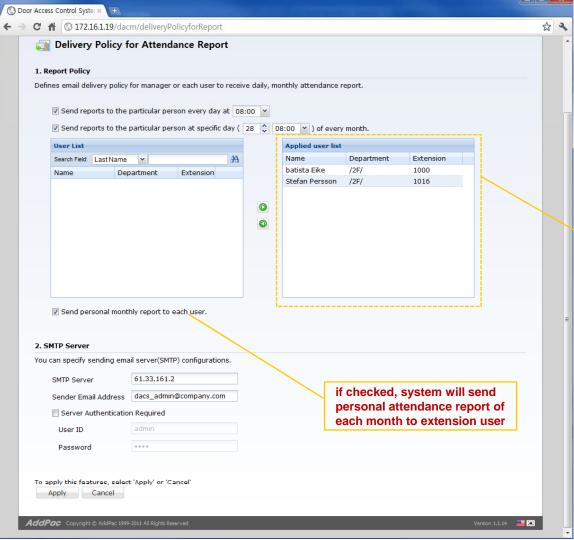


Time and Attendance Codes





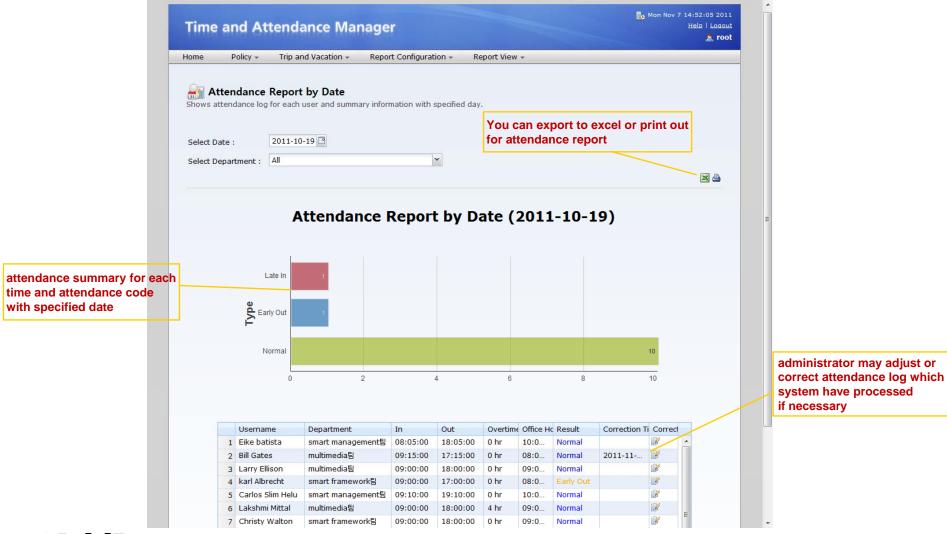
**Delivery Policy for Attendance Report** 



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

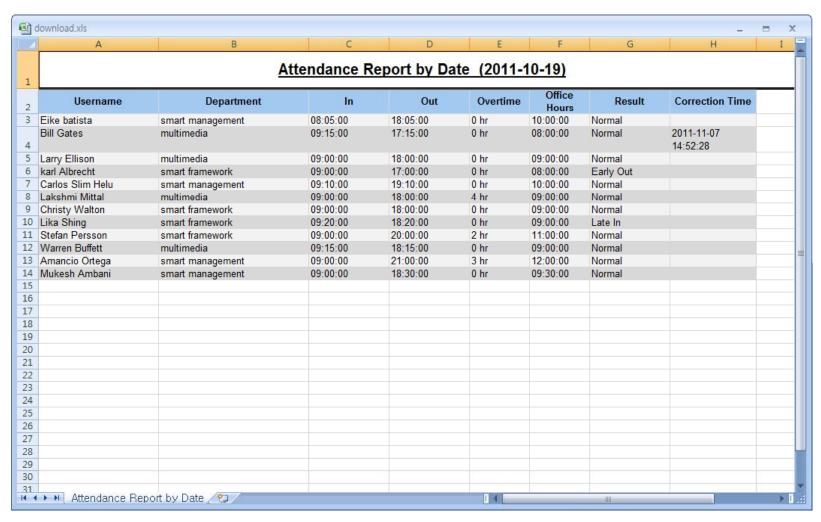


Attendance Report by Date



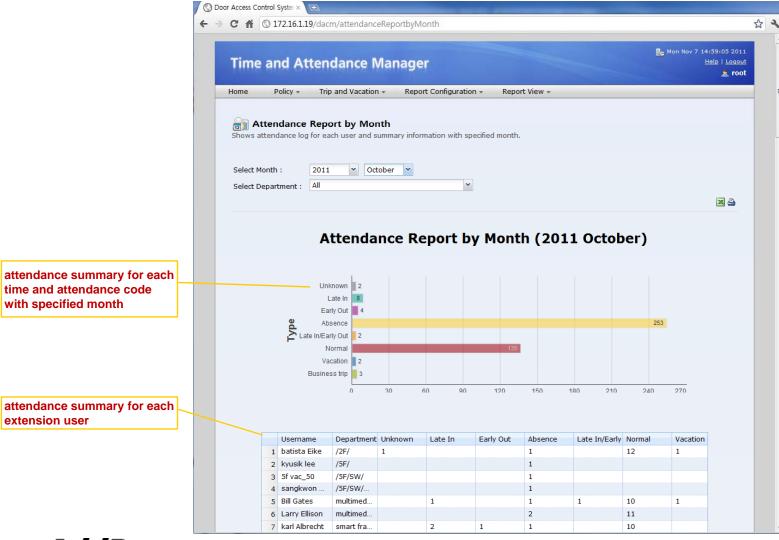


Attendance Report Excel Export



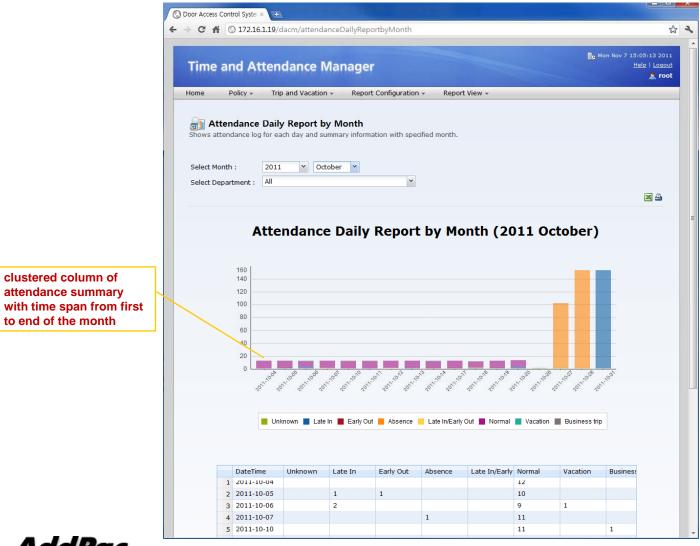


Attendance Report by Month



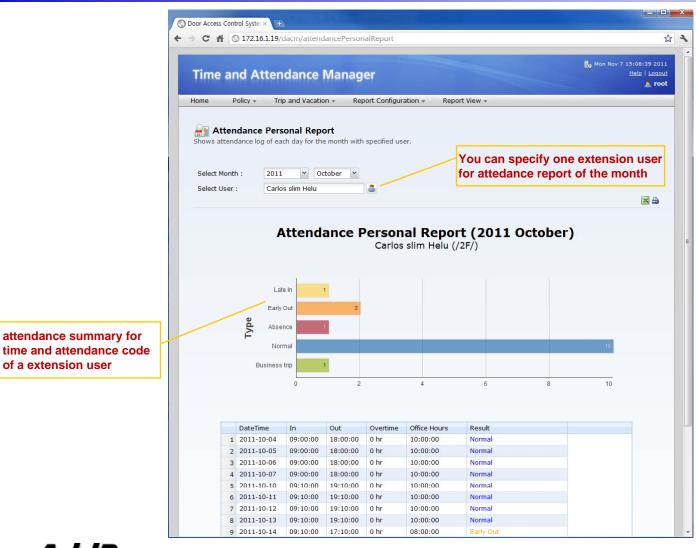


Attendance Daily Report by Month





**Attendance Personal Report** 





attendance summary for

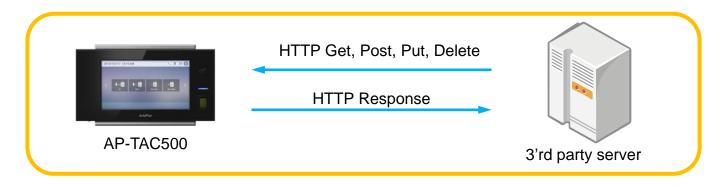
of a extension user

# Open API



#### Open API

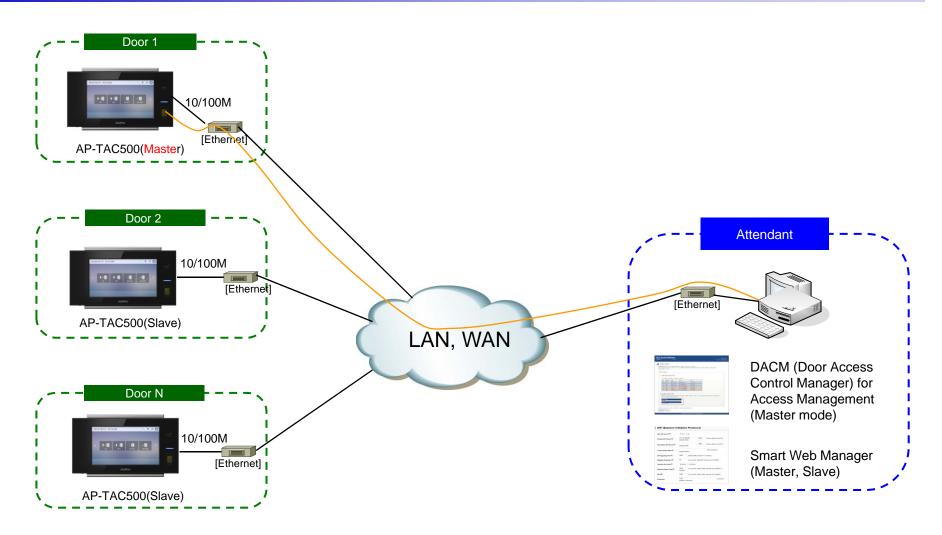
#### Open API for 3'rd Party Management System



- 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-TAC500 Time & Attendance Door Access Controller Hardware
  - AP-TAC500 Main Body
  - RISC Microprocessor with High-end Programmable DSP Architecture
  - 7 Inch LCD
  - Fingerprint Recognition Interface (Option : AP-TAC500)
  - RF card Interface
  - Internal Speaker
  - 1-port 10/100Mbps Fast Ethernet
  - USB based WiFi Interface (Option)
  - PoE Interface
  - Including Network Cable Set & Ext. Power Supply, etc.
- Built-in APOS Internetworking Software for AP-TAC500
- Including 1 Year Hardware Warranty
- Product Documents
  - Install and Operation Guide (PDF)
- Pricing
  - AddPac Technology Regional Sales Manager
  - Authorized Sales and Marketing Representatives

## Thank you!

# AddPac Technology Co., Ltd. Sales and Marketing

Phone +82.2.568.3848 (KOREA) FAX +82.2.568.3847 (KOREA) E-mail sales@addpac.com

