AP-TAS300 Time & Attendance IP Video Door Phone

High Performance Time & Attendance IP Video Door Phone Solution





AddPac Technology

2014, Sales and Marketing

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Product Overview

- Smart Time & Attendance IP Video Door Phone Solution
- High Performance SIP Video Door Phone Solution
- Video Camera, Video Call Button, TFT Color LCD, Internal MIC & Speaker
- High Quality 3.5 Inch LCD, 320 x 240 Video Resolution
- Fingerprint Recognition Support
- RF Card Support
- SIP VoIP Signaling Stack Embedded
- High-performance Video/Voice Codec Support
 - H.264/MPEG4, 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-TAS300 Time & Attendance IP Video Door Phone

Smart Time & Attendance IP Video Door Phone

3.5 Inch LCD Display **IP based Video Door Phone** 320 x 240 Resolution **Powerful Acoustic Echo** & Programmable DSP Canceller RF Card Interface. **Fingerprint Recognition** Alarm & Relay Out Interface

High Performance RISC CPU

High-quality Image VGA, 30fps 64Kbps to 1Mbps

> **State-of-art Signaling SIP Signaling Stack**

Broadband IP Networking With one 10/100Mbps ethernet

IP based Network Protocol

APOSTM**Technology**

Multimedia Network Protocol

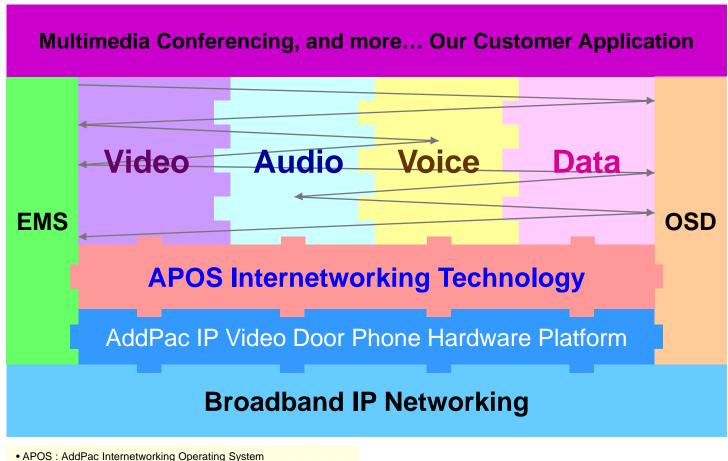
& Video/Voice Traffic QoS

High-end Video Codec H.264, MPEG4,etc

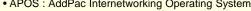


Multimedia Service

AP-TAS300 Time & Attendance IP Video Door Phone



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• OSD : On- Screen Display

• EMS: Element Management System



- RISC+DSP Microprocessor Computing Power
- Audio and Voice Interface
 - Internal MIC
 - Internal Speaker
- Video Camera Interface
- TFT Color LCD Interface
 - 3.5 Inch LCD, 320 x 240 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
- External RCA Audio Line Out and MIC In (back side)
- Steel Chassis
- Power Supply
 - Power over Ethernet (Option)
 - External Power Supply









AP-TAS300 Time & Attendance IP Video Door Phone

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

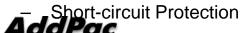
- Resonance Level: 550Hz +- 20%Hz at Fo Hz, 1.0Vrms
- Frequency Range : Fo Hz ~20kHz
- Input Power: Normal: 1.0 W, Max: 2.0W

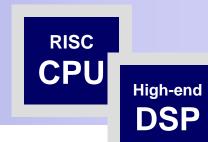
Audio Amplifier

- 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)

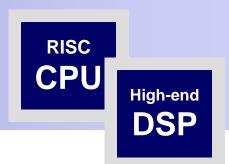
- IEEE802.3af compliant
- Input voltage range 36V to 57V







AP-TAS300 Time & Attendance IP Video Door Phone



LCD Controller

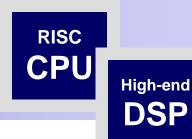
- One-Chip Solution for amorphous TFT-LCD
- Support resolution up to 240xRGBx320
- Built-in 172800 bytes internal RAM
- 6,8,16, and 18-bit RGB Interface
- Resize Function (x ½, x ¼)
- On-Chip Power Management System

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



AP-TAS300 Time & Attendance IP Video Door Phone



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-TAS300 Time & Attendance IP Video Door Phone





Fingerprint Recognition

Sensor Type : Capacitive

Resolution(dpi): 508

Sensing Area(mm): 12.8 x18.0Image Size(pixel): 256 x 360

CPU: 400MHz DSPFlash 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)

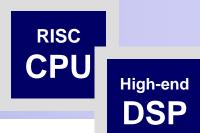
Template Capacity: 9,000

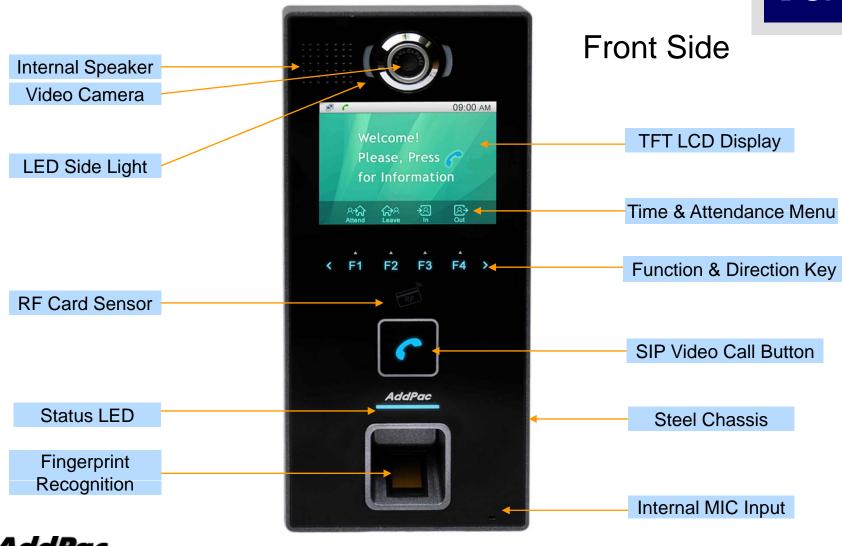
- Encryption: 256bit AES











RISC High-end DSP

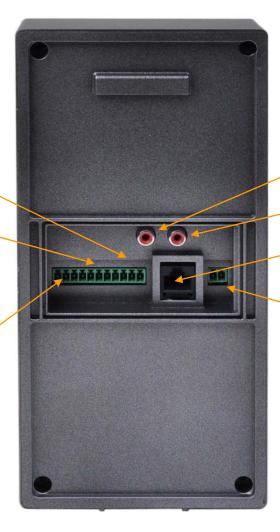
AP-TAS300 Time & Attendance IP Video Door Phone

Back Side

RS485

RS232

2 Alarm, 2 Relay Out



Option: Line Out

Option: MIC In

LAN Port

Power Input : Terminal Block 12V 1A



RISC CPU

AP-TAS300 Time & Attendance IP Video Door Phone

High-end DSP

Power Supply



Example





Software Service

- 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

- High-performance Video Codec Support
 - H.264, 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

- Audio & Voice Networking Interface
 - External Audio Line-Out Interface (RCA Connector)
 - External Audio MIC-In Interface (RCA Connector)
- VolP 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-TAS300 Time & Attendance IP Video Door Phone

- Main Screen
- System
 - Language
 - LAN Setup
 - DACS
 - Display
 - File Browser
- SIP Call & Media
 - SIP (Session Initiation Protocol)

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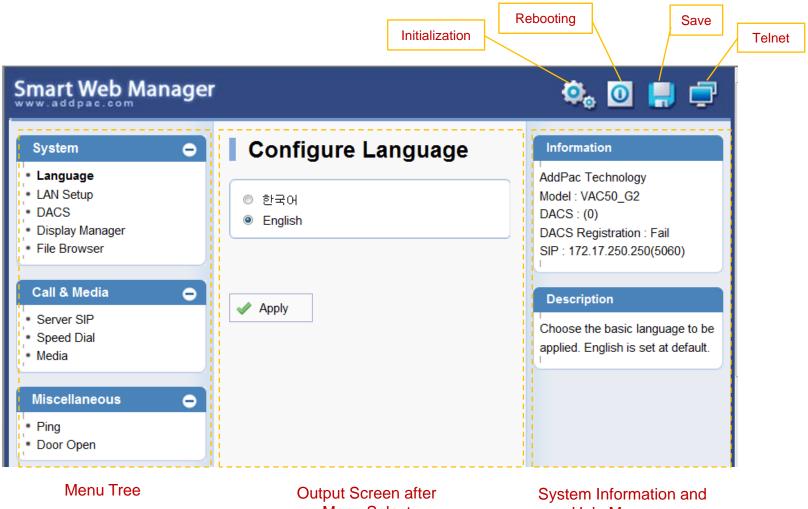
- Speed Dial
- Media
- Miscellaneous
 - Door Control and Test
 - Network Test





Smart Web Manager: Main Screen

AP-TAS300 Time & Attendance IP Video Door Phone

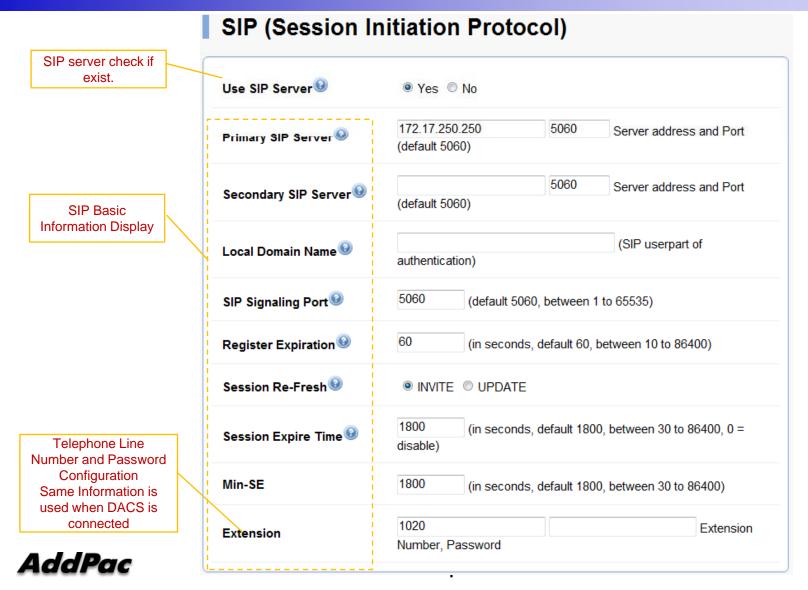




Menu Select

Help Message

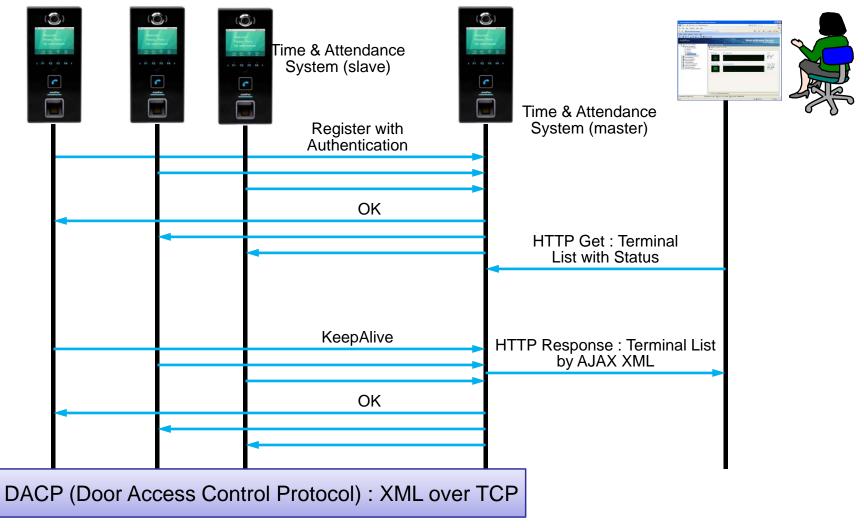
Smart Web Manager: SIP configuration



Time & Attendance System Message Flow

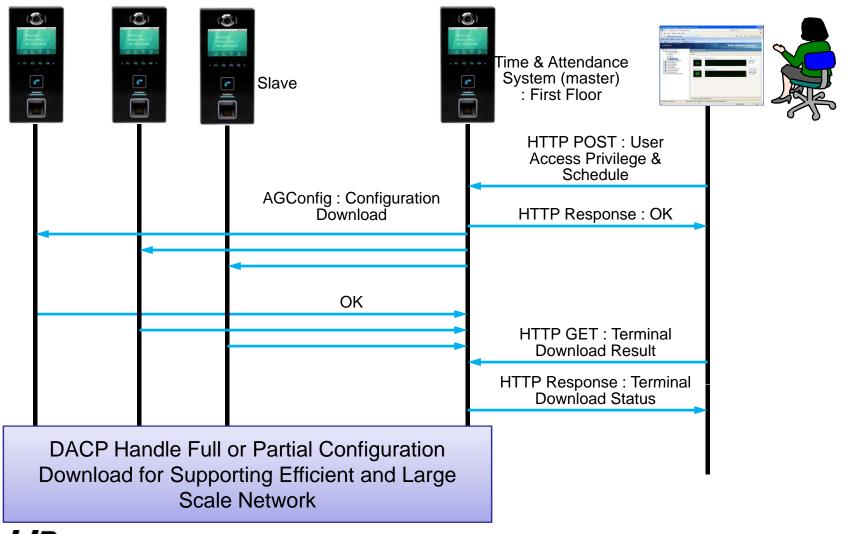


Time & Attendance System Message Flow Registration and KeepAlive



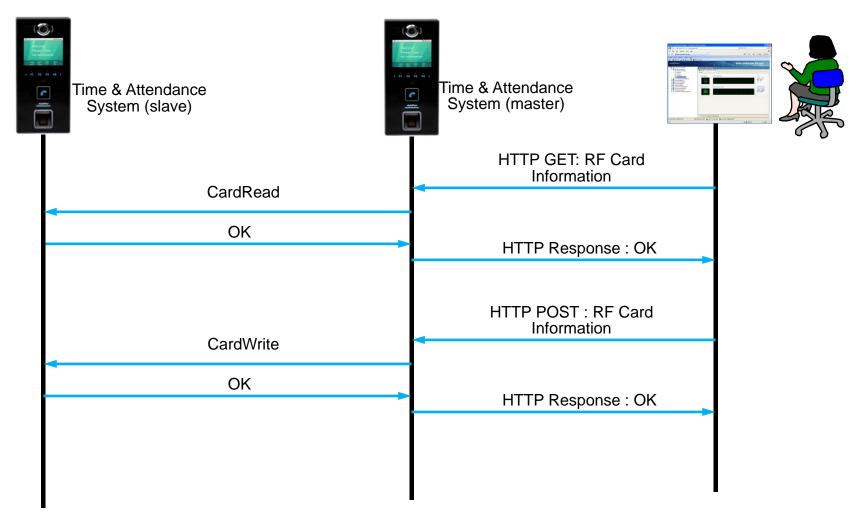
Time & Attendance System Message Flow

Access Privilege and Schedule Download





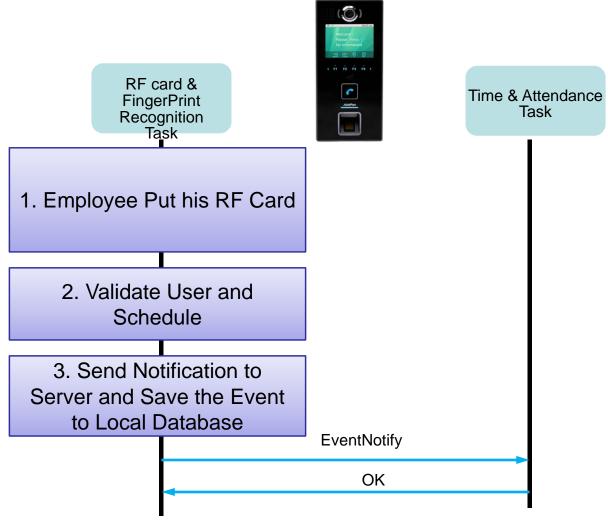
Time & Attendance System Message Flow RF Card Read/Write and Registration





Time & Attendance System Message Flow

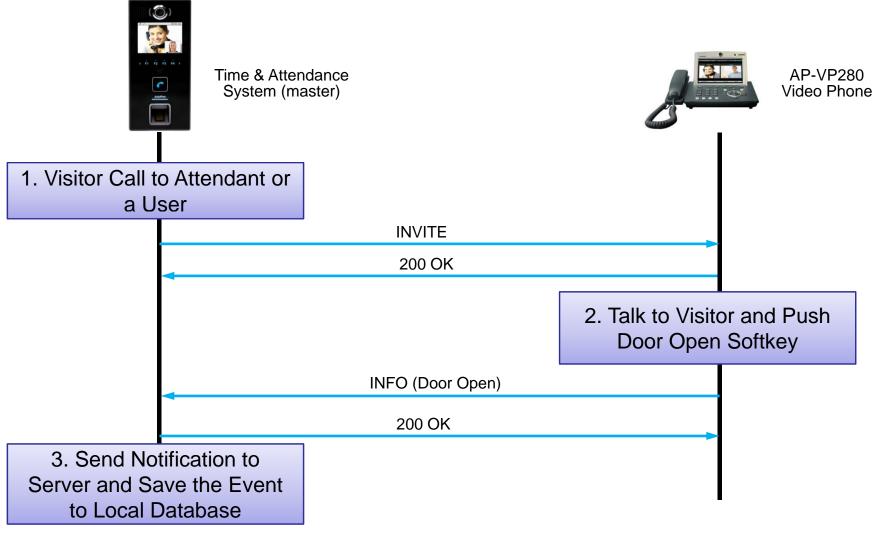
Door Open by RF Card





Time & Attendance System Message Flow

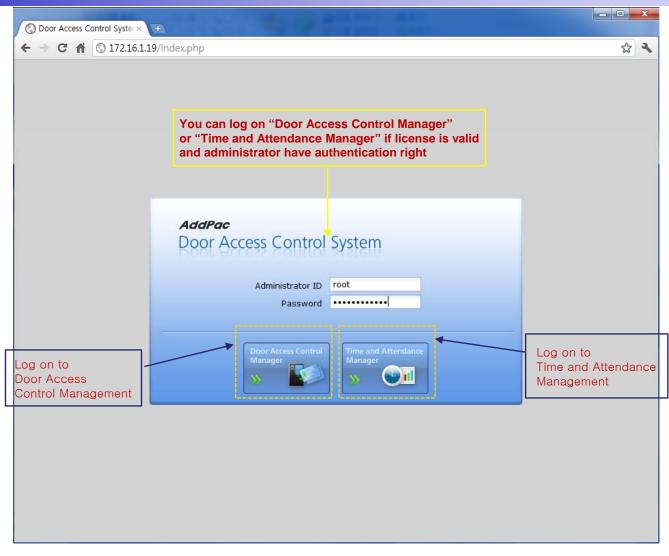
Door Open by Other Terminal



Door Access Control Manager for AP-TAS300

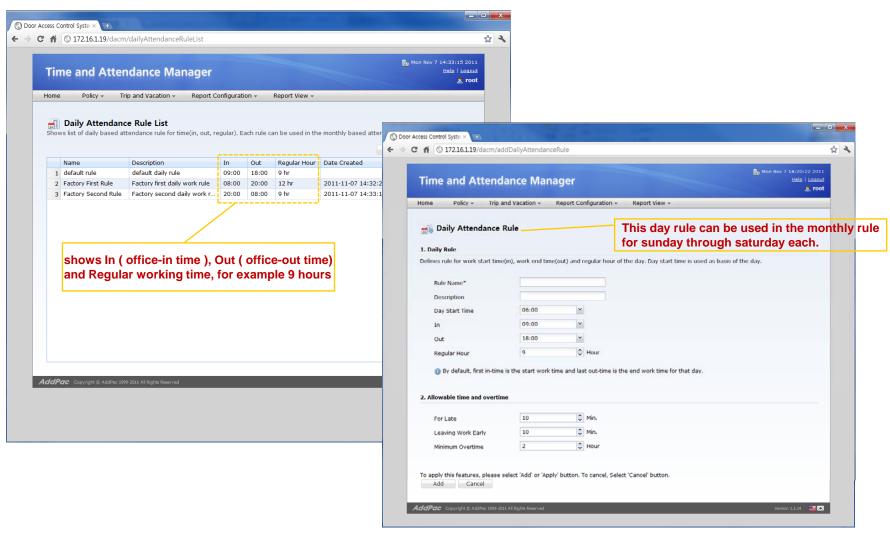


DACS (Door Access Control System) Login page



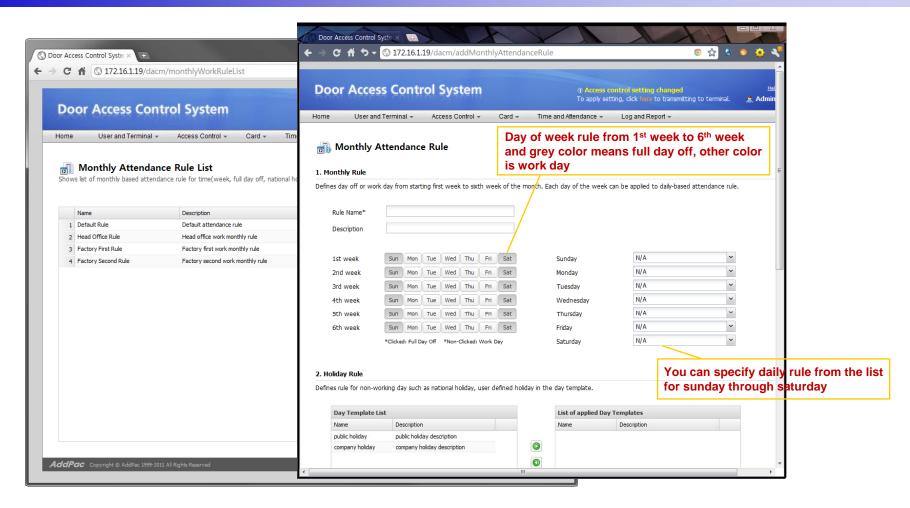


TAAM (Time and Attendance Manager) Daily Attendance Rules



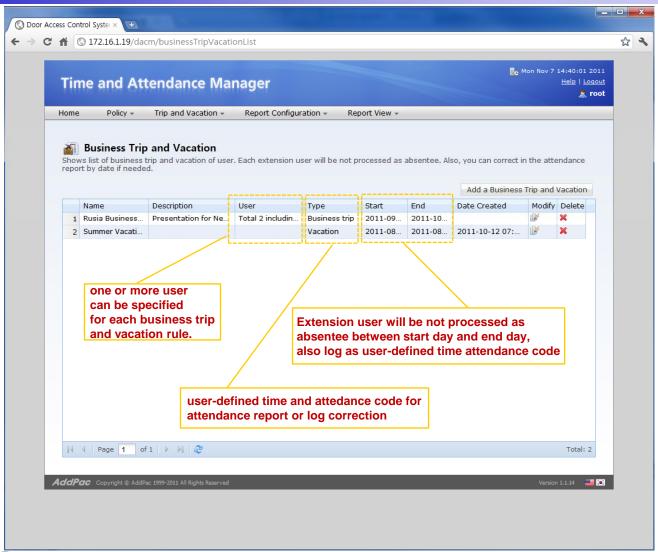


TAAM (Time and Attendance Manager) Monthly Attendance Rules

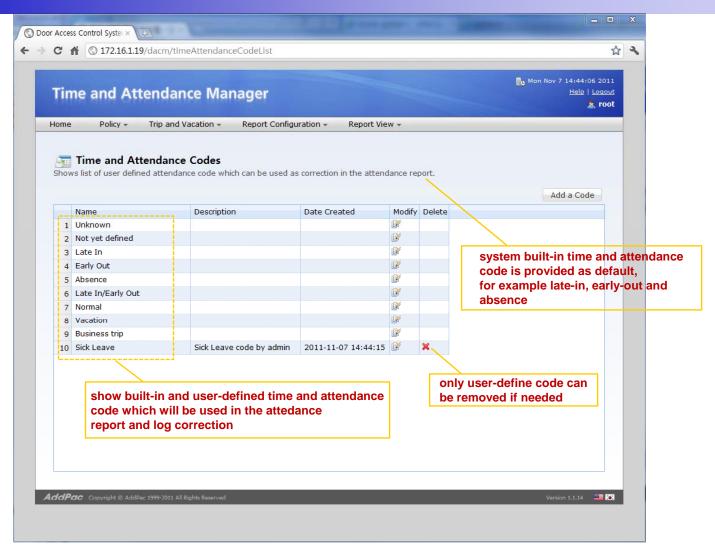




TAAM (Time and Attendance Manager) Business Trip and Vacation

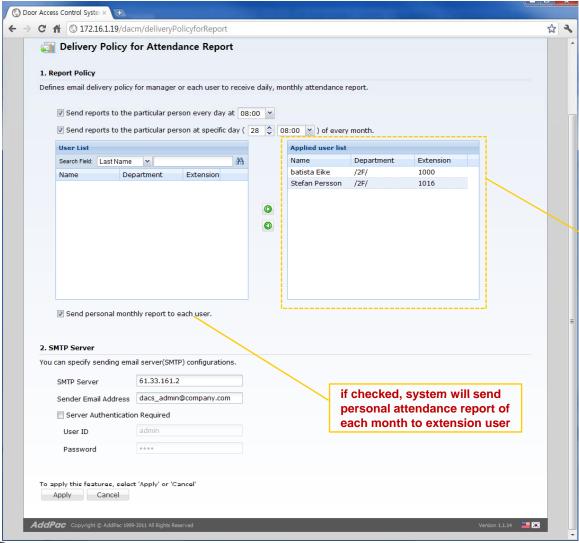


TAAM (Time and Attendance Manager) Time and Attendance Codes





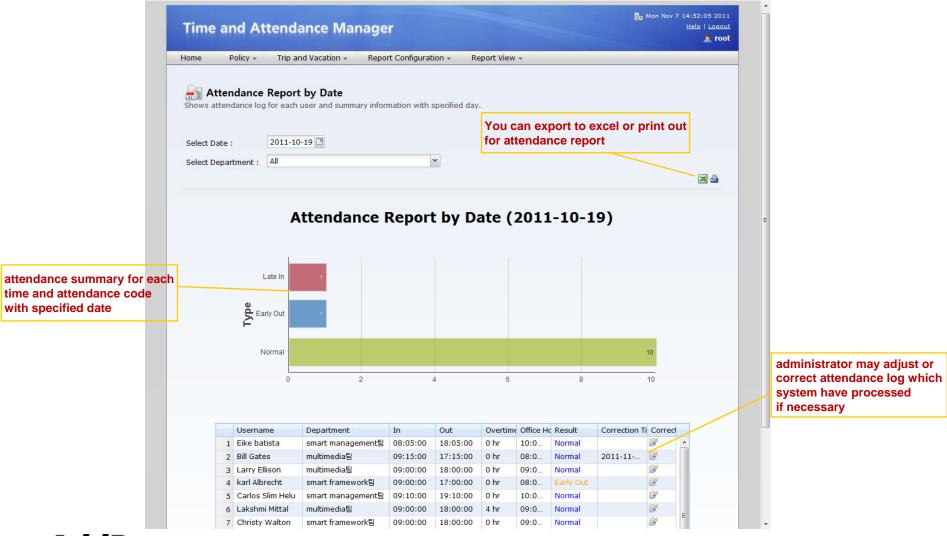
TAAM (Time and Attendance Manager) Delivery Policy for Attendance Report



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

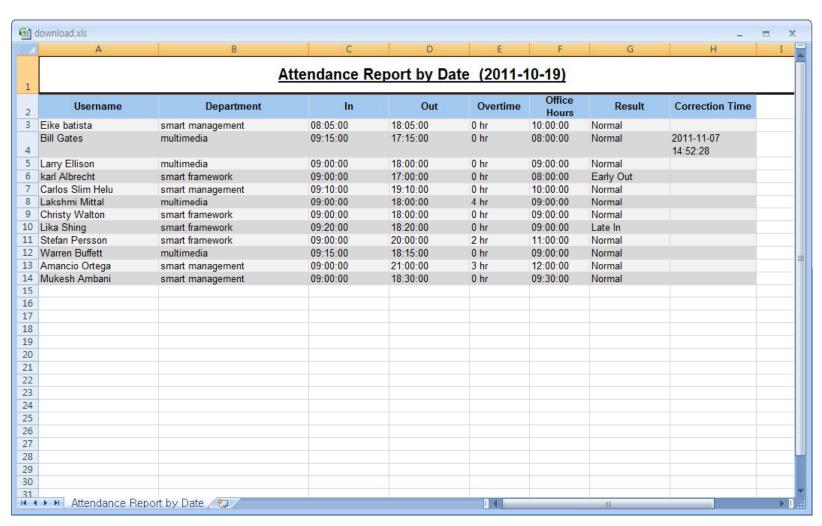


TAAM (Time and Attendance Manager) Attendance Report by Date



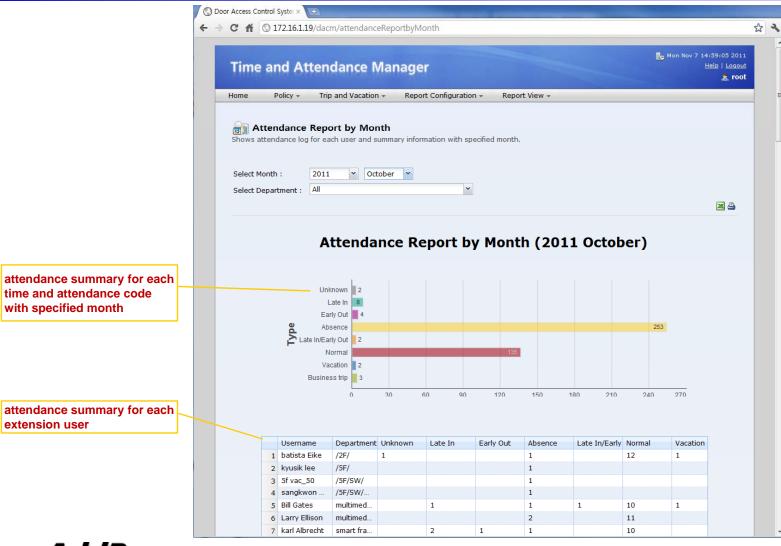


TAAM (Time and Attendance Manager) Attendance Report Excel Export



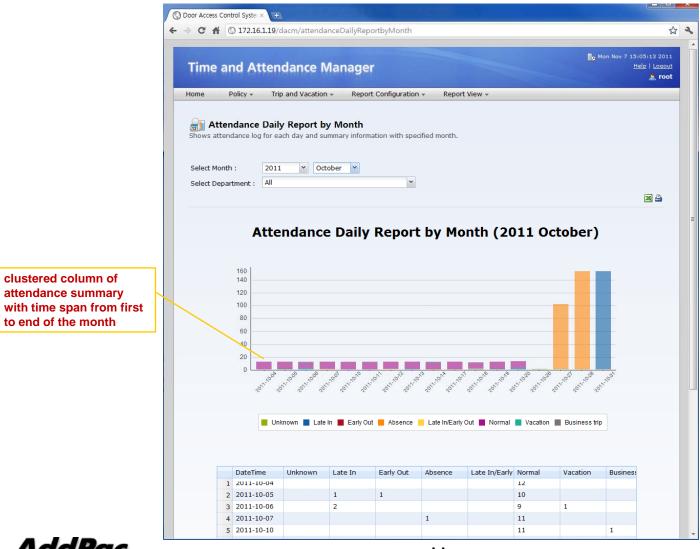


TAAM (Time and Attendance Manager) Attendance Report by Month





TAAM (Time and Attendance Manager) Attendance Daily Report by Month

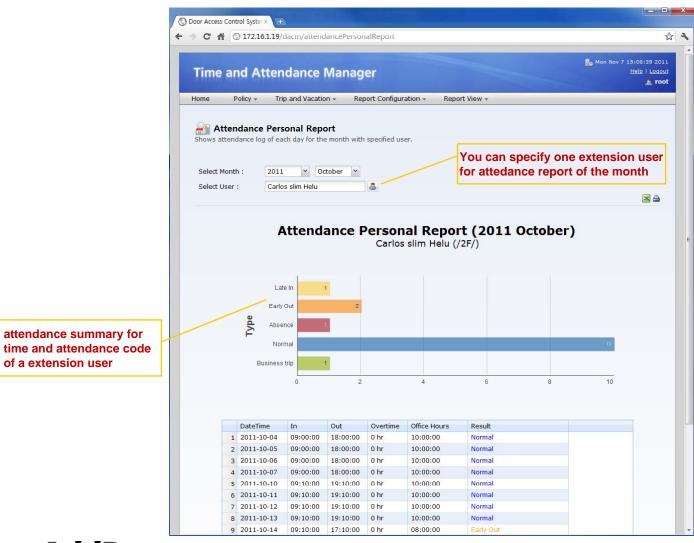




clustered column of attendance summary

to end of the month

TAAM (Time and Attendance Manager) Attendance Personal Report



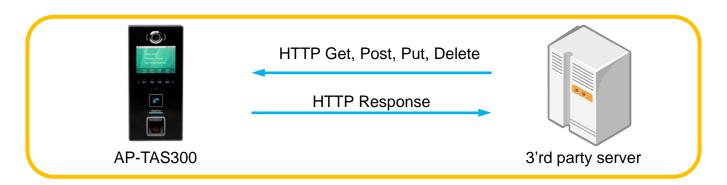


Open API



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) ,...



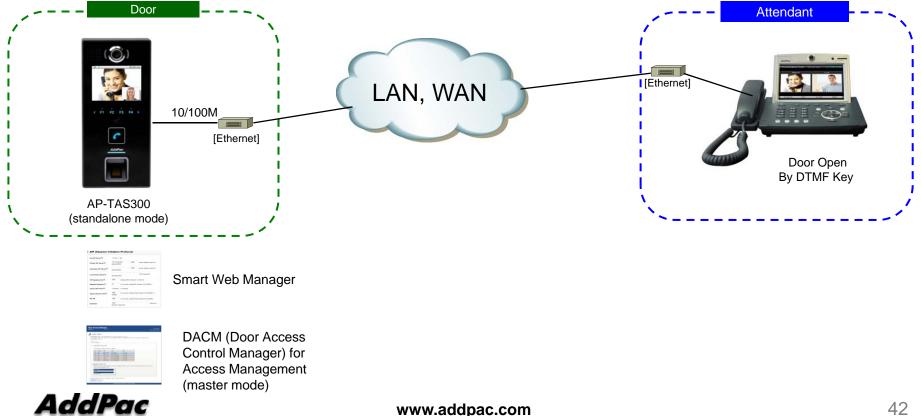
Application Area

- Point-to-Point Application (Simple Application)
- Point-to-Multipoint Application

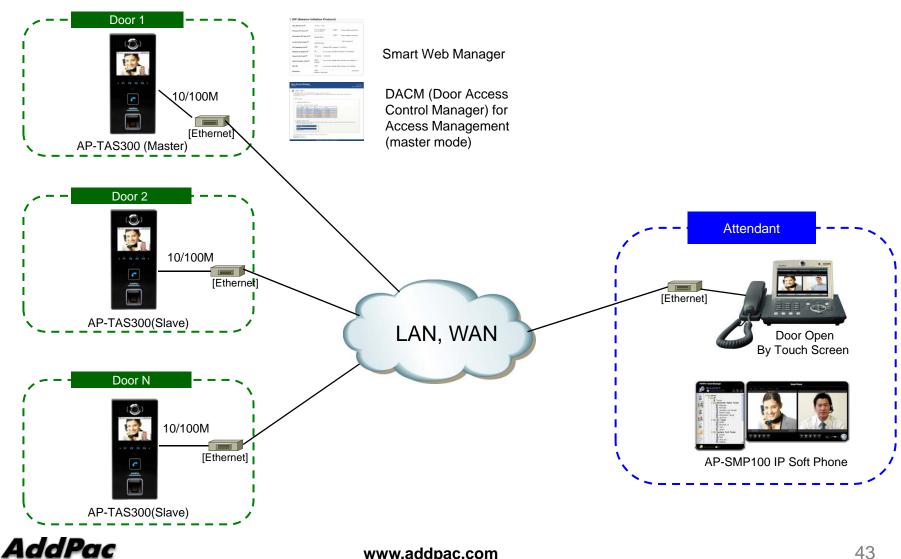




Point-to-Point Connection (Simple Appl.)



Integrated Door Access Control and Call Control



Ordering Information

- AP-TAS300 Main Body
- RISC Microprocessor with High-end Programmable DSP Architecture
- 3.5 Inch LCD, Built In Camera, Side Light
- Fingerprint Recognition, RF card Interface
- Steel Chassis
- 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-TAS300
- 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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