

# Door Access Control System Solution



Door Access Control System Solution

- AP-ACS10000 Door Access Control System
- AP-ACS1000 Door Access Control System
- AP-ACS500 Door Access Control System

Learn More >

The image displays a collection of hardware and software components for a door access control system. On the left, there is a black server tower. In the center, two computer monitors are shown; the left one displays a software interface with several icons, and the right one shows a detailed report with a bar chart. To the right of the monitors are a keyboard and a mouse. Further right is a flat, rectangular control unit. On the far right, there are two vertical access control devices: one is a smaller unit with a keypad and a small screen, and the other is a taller unit with a larger screen and a card reader.

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- DACM (Door Access Control Manager)
- TAAM (Time and Attendance Manager)
- Open API for Third Party Controller

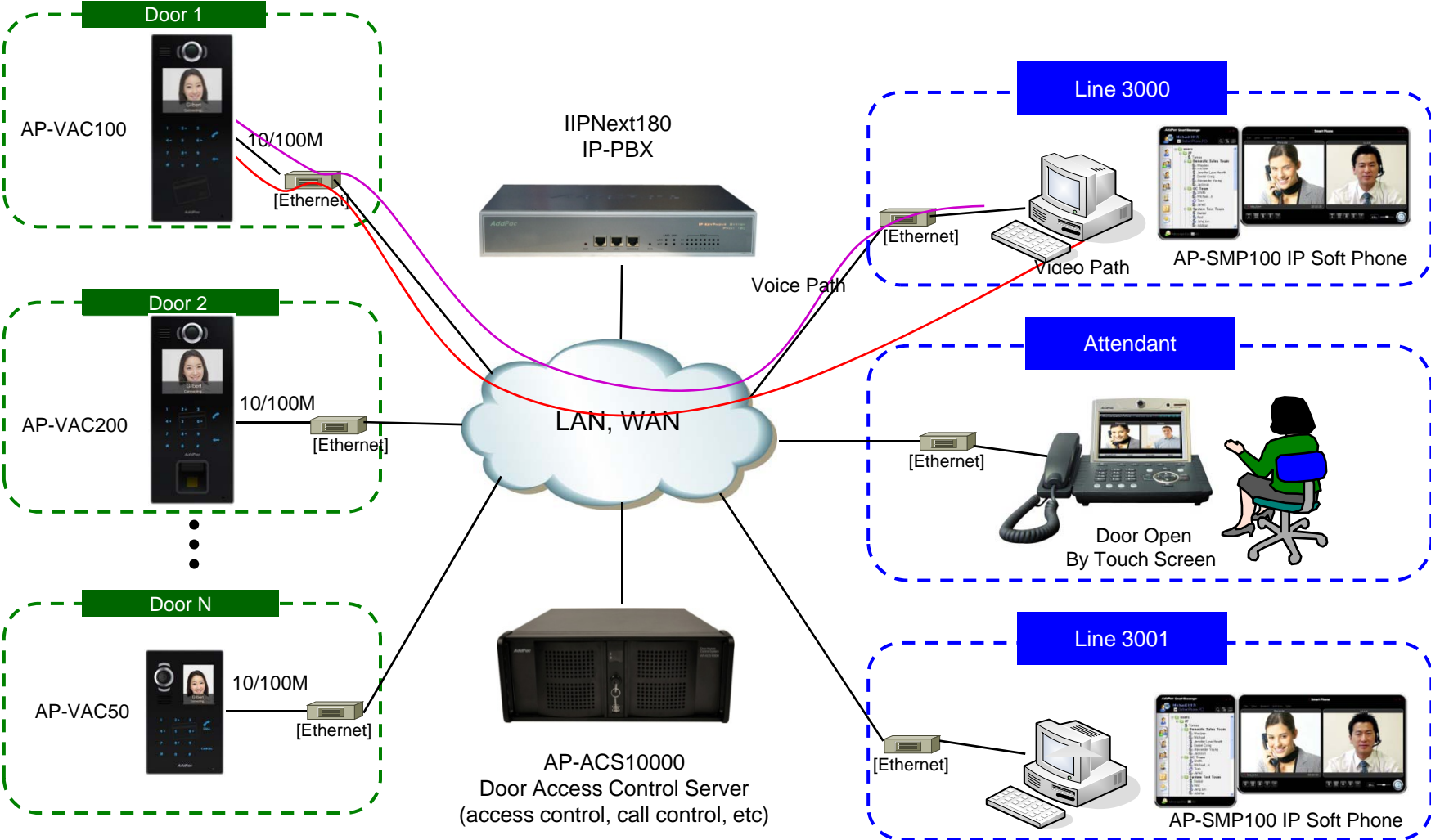


# Large Scale IP Video Door Phone Service Network Diagram

(Separated Door Access Control and SIP Call Control)

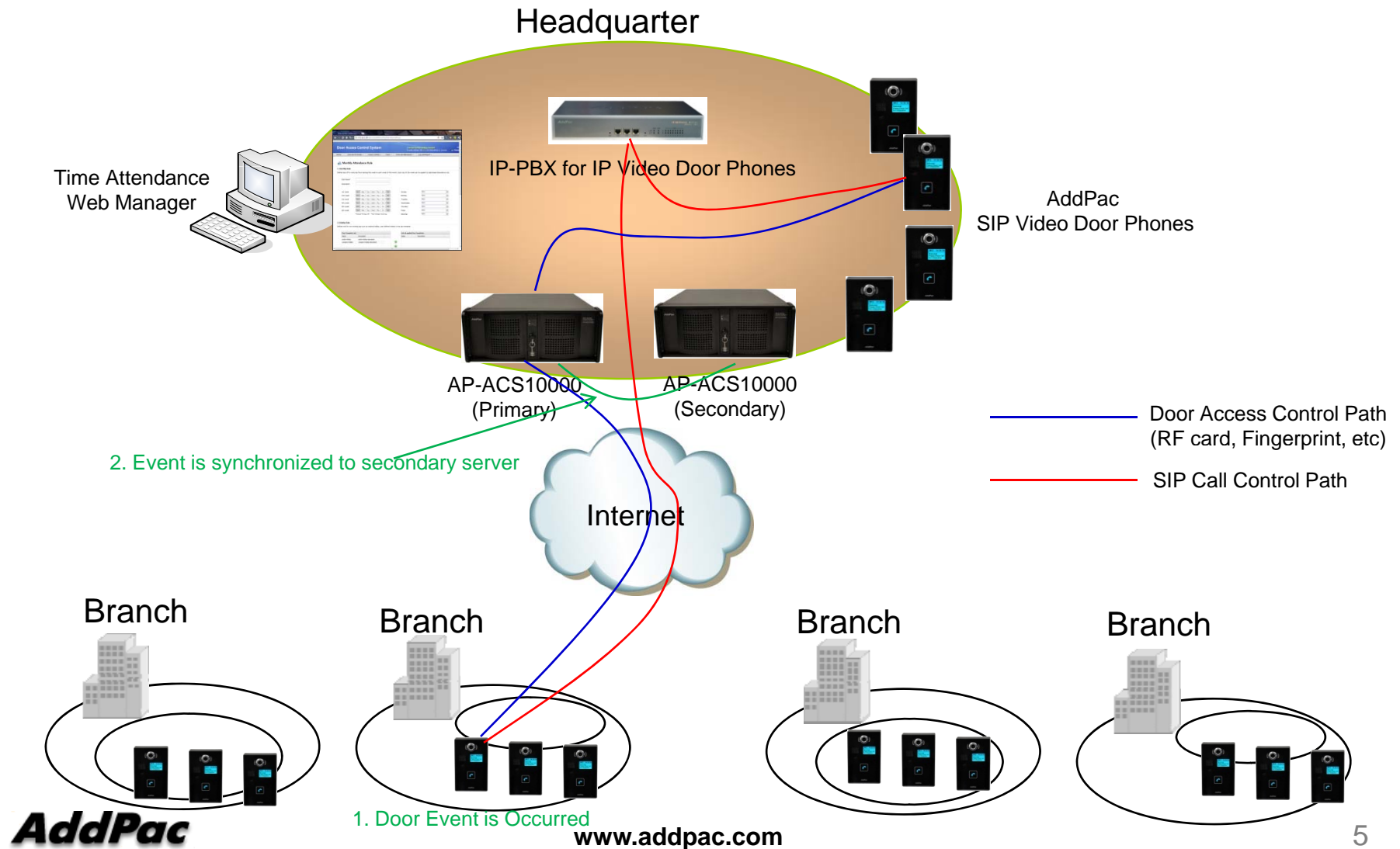
# IP-PBX Environment

## AP-ACS10000 DACS (Door Access Control System)



# System Redundancy for Fault Tolerant Service

## AP-ACS10000 DACS (Door Access Control System)

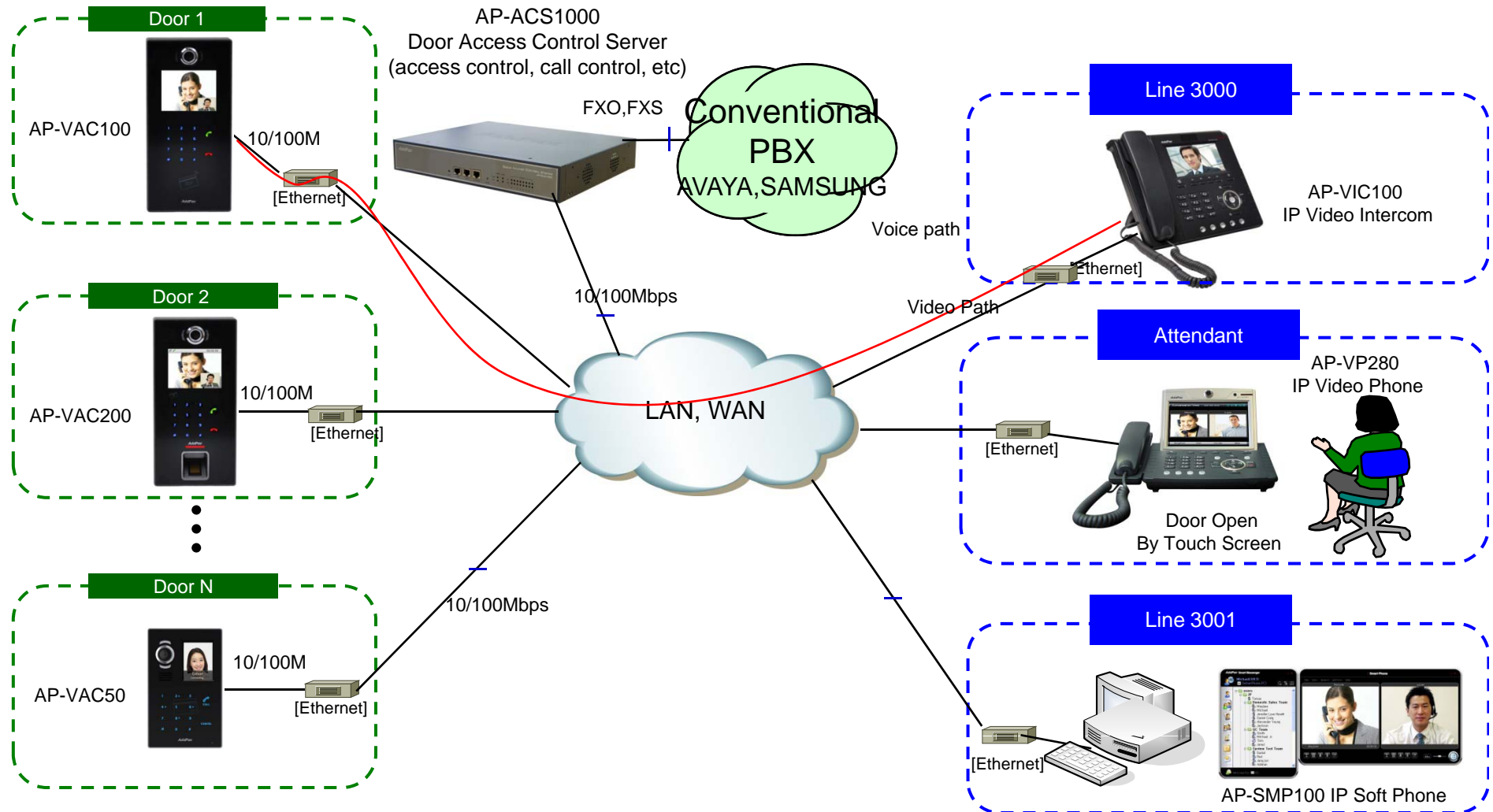




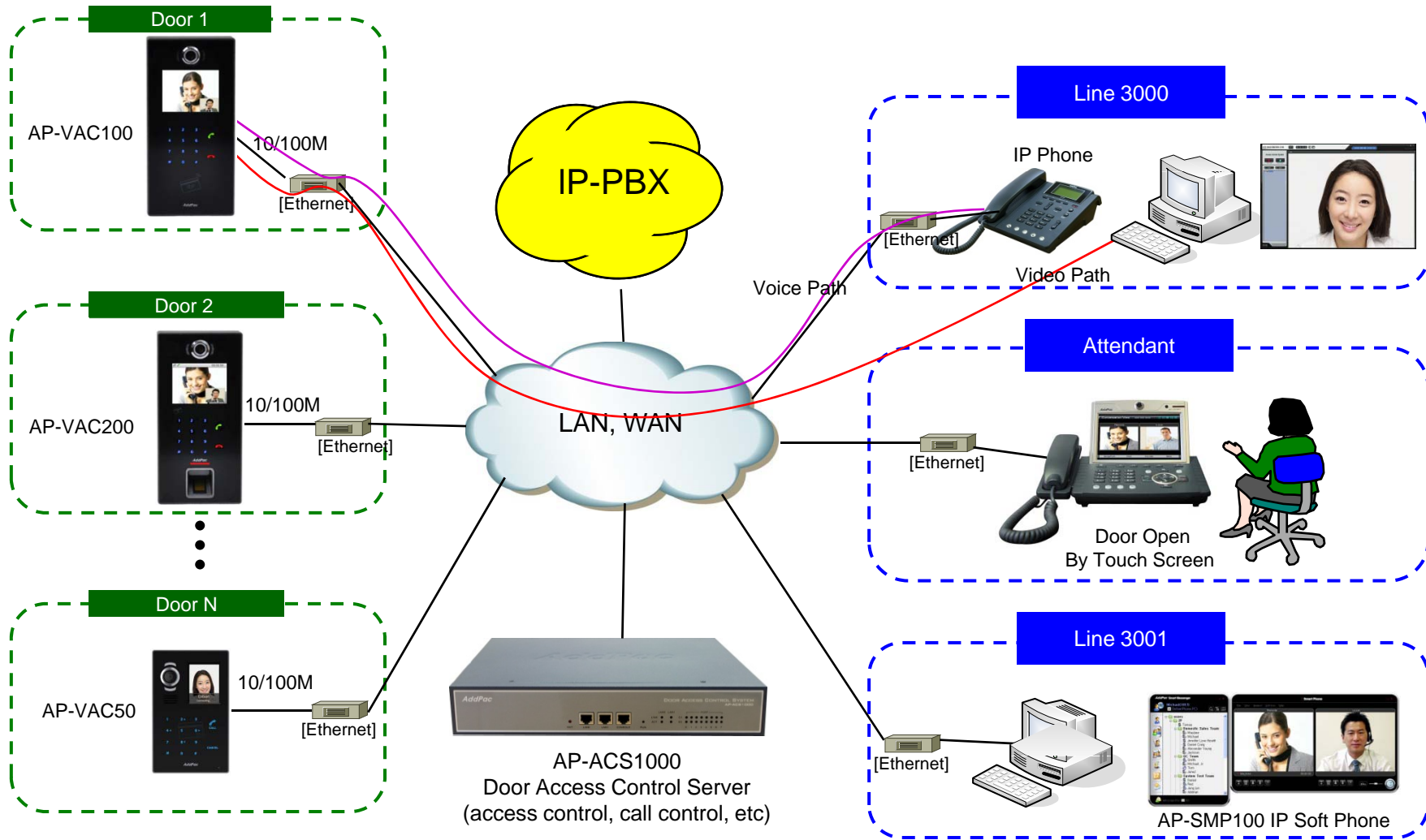
# Small & Medium Scale IP Video Door Phone Service Network Diagram

(Integrated Door Access Control and SIP Call Control)

# Conventional PBX Environment



# IP-PBX Environment







# IP Video Door Phones




# IP Video Door Phone Comparison Table

Model	AP-VAC200	AP-VAC100	AP-VAC50	AP-VAC20
Service Features				
Duplex (Voice)	Full Duplex	Full Duplex	Full Duplex	Full Duplex
Key Pad	3x4 Key Support	3x4 Key Support	3x4 Key Support	3x4 Key Support
LCD	3.5 Inch	3.5 Inch	2inch LCD	Graphic LCD
RF Card	Support	Support	Support	Support
Fingerprint	Support	N/A	N/A	N/A
Camera Sensor	SD(VGA)	SD(VGA)	SD(VGA)	SD(VGA)
Video Codec	SD, H.264/MPEG4	SD, H.264/MPEG4	SD, H.264/MPEG4	SD, H.264/MPEG4
Voice Codec	G.711	G.711	G.711	G.711
Signaling	H.323/SIP	H.323/SIP	H.323/SIP	H.323/SIP
MIC & Speaker Phone	Support	Support	Support	Support
LAN Port	1	1	1	1
PoE(Optional)	Support	Support	Support	Support



# IP Door Access Control Systems

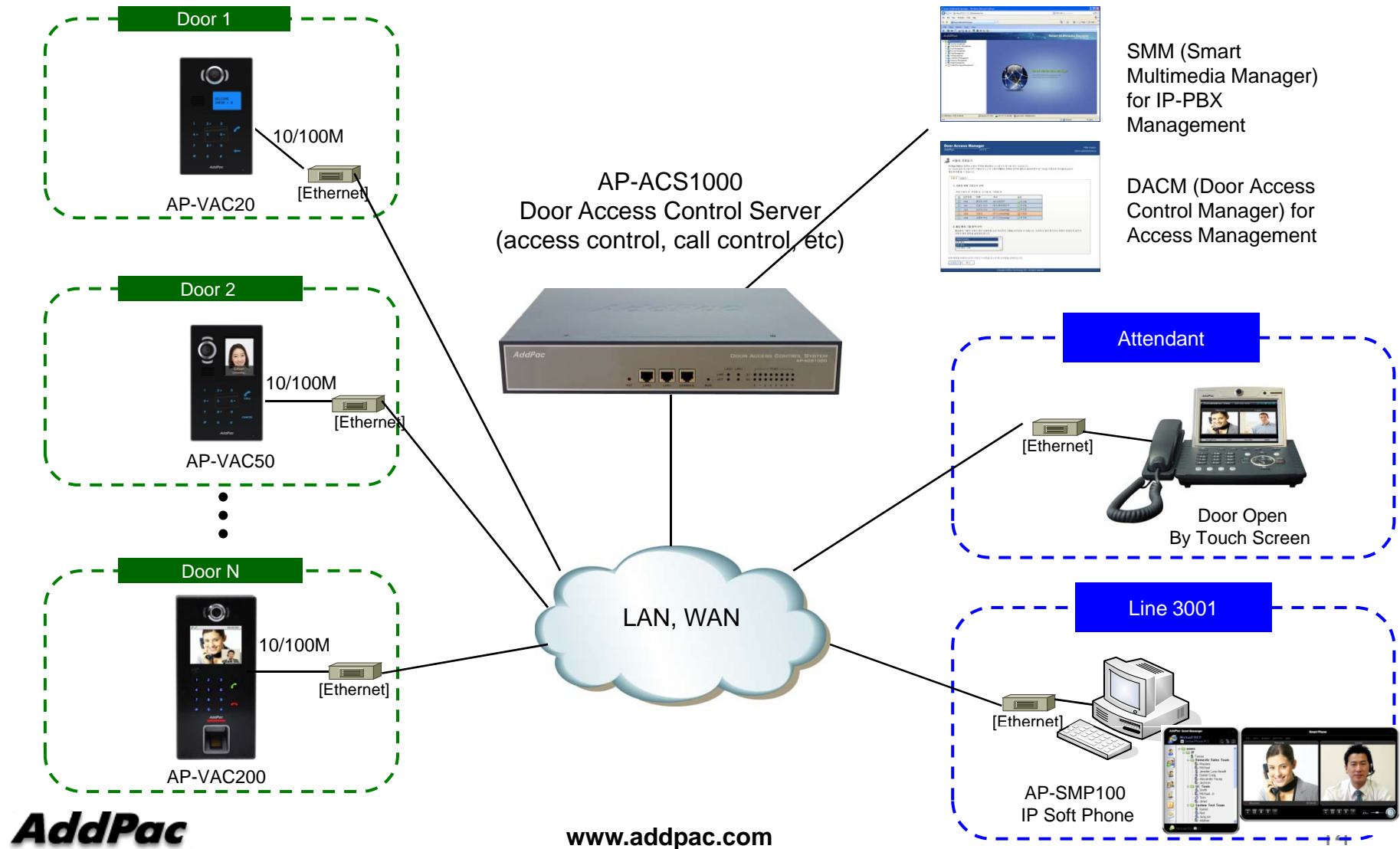
# Door Access Control Server Comparison Table

Model	AP-ACS10000	AP-ACS1000	AP-ACS500
Service Features			
Registration User Number	N/A	100	30
Concurrent Call User Number	N/A	30	15
VoIP Signaling	Internal	N/A	SIP
	External	N/A	H.323/SIP
Powerful IVR, UMS, Media Service, User Presence Service	N/A	Support	Support
RTP Proxy Service (IPv6, Private IP)	N/A	Support	Support
LAN Port	1	2	2
VoIP Module Slots for PSTN	N/A	2 Slots (8 Port Module)	N/A
VoIP Interface	N/A	FXS,FXO,E1/T1	Option
Video Door Phone Control (RF card, etc)	Support	Support	Support
Time & Attendance Management	Support	Support(option)	Support (Option)

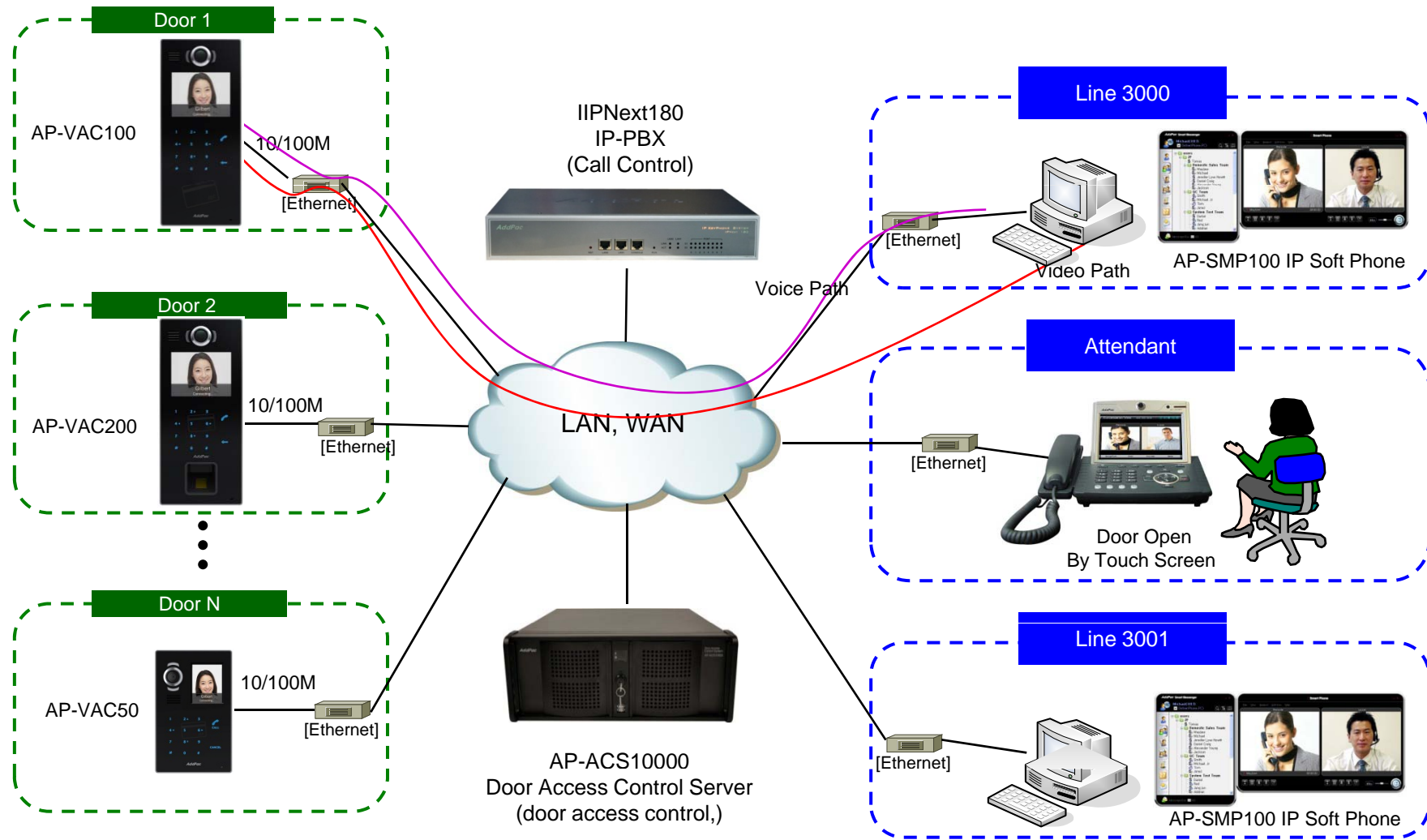
# Contents

- DACS(Door Access Control Server) Network Diagram
  - IP-PBX Integrated Service Model
  - IP-PBX Separated Service Model
- AP-ACS10000 Overview
- AP-ACS1000 Overview
- AP-ACS500 Overview

# Integrated Door Access Control and Call Control



# Separated Door Access Control and Call Control





# AP-ACS10000 Door Access Control System



# Main Features

## AP-ACS10000 DACS (Door Access Control System)

- Large Scale Door Access Control Service Features
- Linux Operating System
- Time & Attendance Control System
- Server & Client Architecture
- System Duplication Support for Fault Tolerant Service
- RF Card, Fingerprint Video Door Phone Interworking Service
- Smart Time & Attendance Manager Support (Web based)
- Excel File Import Function for Large User Registration
- Powerful Management and User Friendly Features
- Open API Support for Third Party
- Firmware Upgradeable Architecture
- Up to 4 x 3.5Inch Hard Disk (SATA Type, 2Tera Byte Support)
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- USB Interface Support (Front Side, Back Side)

# Hardware Specification

AP-ACS10000 DACS (Door Access Control System)

High End  
Processor

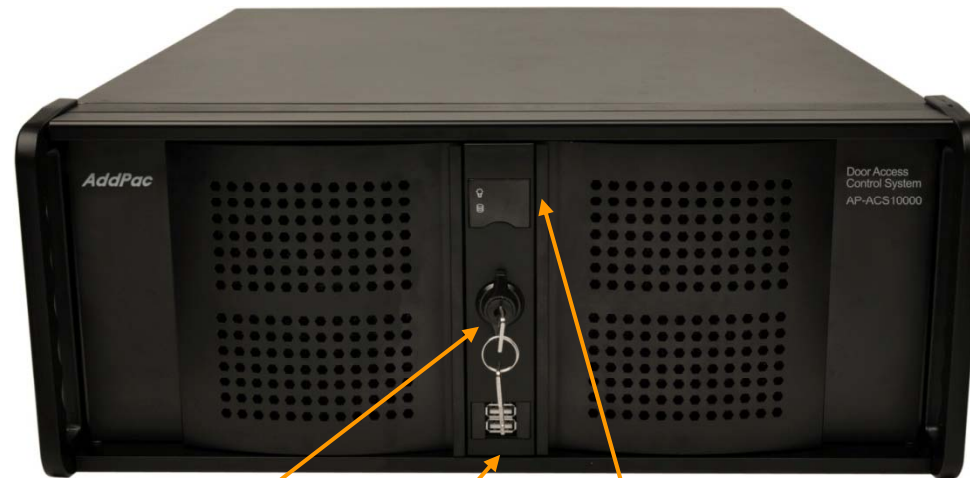
- High Performance Computing Power
- Main Chassis
  - Network Interface
    - One(1) 10/100/1000Mbps Fast Ethernet
  - Video Output Interface
    - HDMI, DVI,RGB Video Output
  - USB 2.0 Interfaces for Mouse, Keyboard, etc
  - One(1) DVD Writer for Video File Backup
  - Up to Four(4) Hard Disk

# Hardware Specification

AP-ACS10000 DACS (Door Access Control System)

High End Processor

Front Side



Cabinet Open Key

USB Interface

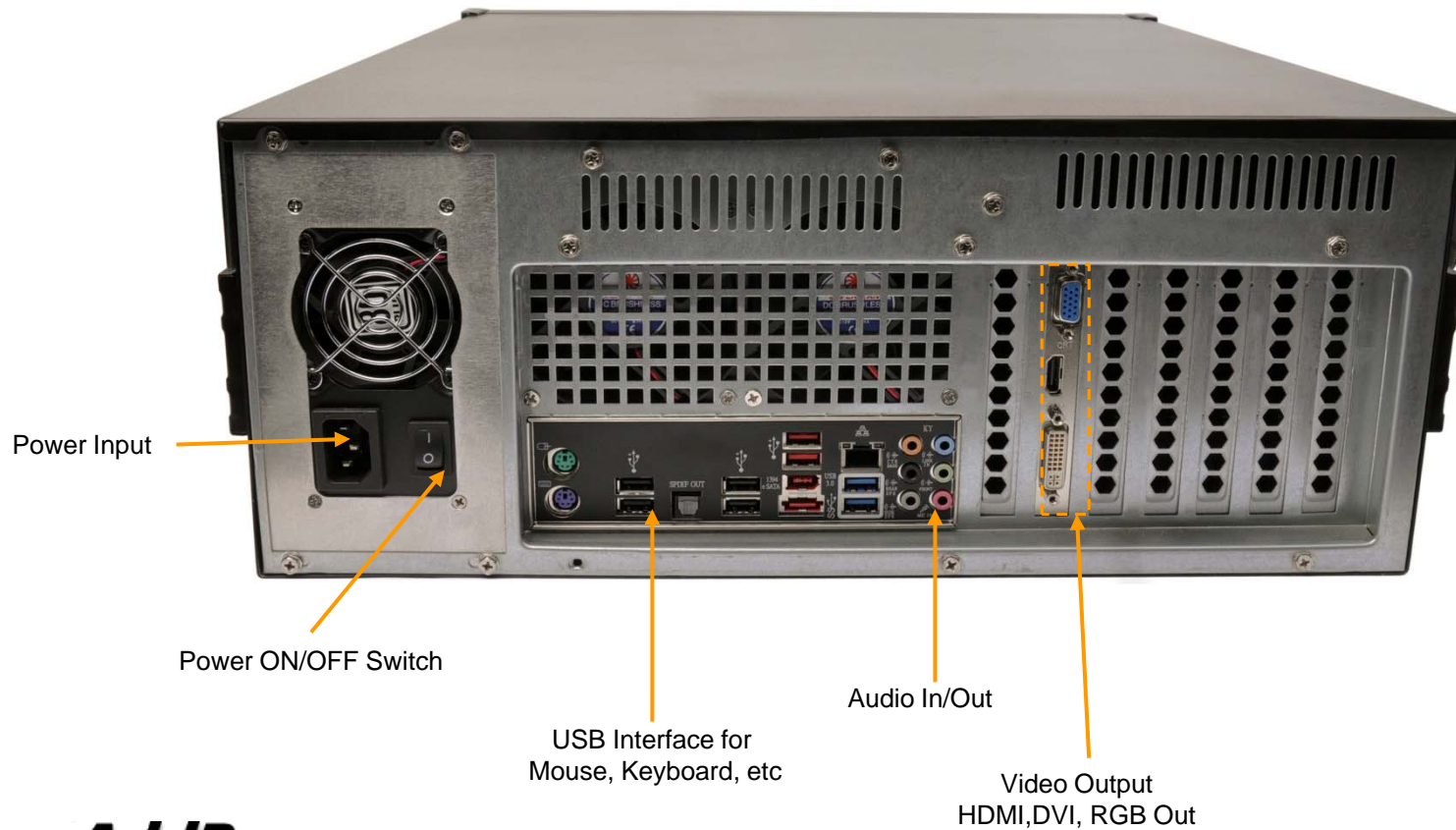
Power & HDD Access Indication LAMP

# Hardware Specification

AP-ACS10000 DACS (Door Access Control System)

High End  
Processor

Front Side





# AP-ACS1000 Door Access Control System

# Main Features

## AP-ACS1000 DACS (Door Access Control System)

- Door Access Control Application System
- SIP Application Server, Proxy, Registrar and Location Server
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
- Legacy PBX Interworking Service
- High Performance RISC & Programmable DSP Architecture
- Two(2) 10/100Mbps Fast Ethernet (IP Share ,etc)
- High Performance LAN-to-LAN Routing Capability
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- IPv4/IPv6 Dual Stack
- Firmware Upgradeable Architecture
- Smart Multimedia Manager for IP-PBX Management
- DACM(Door Access Control Manager)
- Advanced Voice QoS Mechanism
- Small, Light and Compact Design
- Two(2) VoIP Module Slots for Analog, Digital Interface

# Main Features

## AP-ACS1000 DACS (Door Access Control System)

- RISC Microprocessor Computing Power
- Main Chassis
  - Network Interface
    - Two(2) 10/100Mbps Fast Ethernet
    - One(1) RS-232C Console (RJ45)
  - Two(2) VoIP Module Slots for FXS, FXO etc

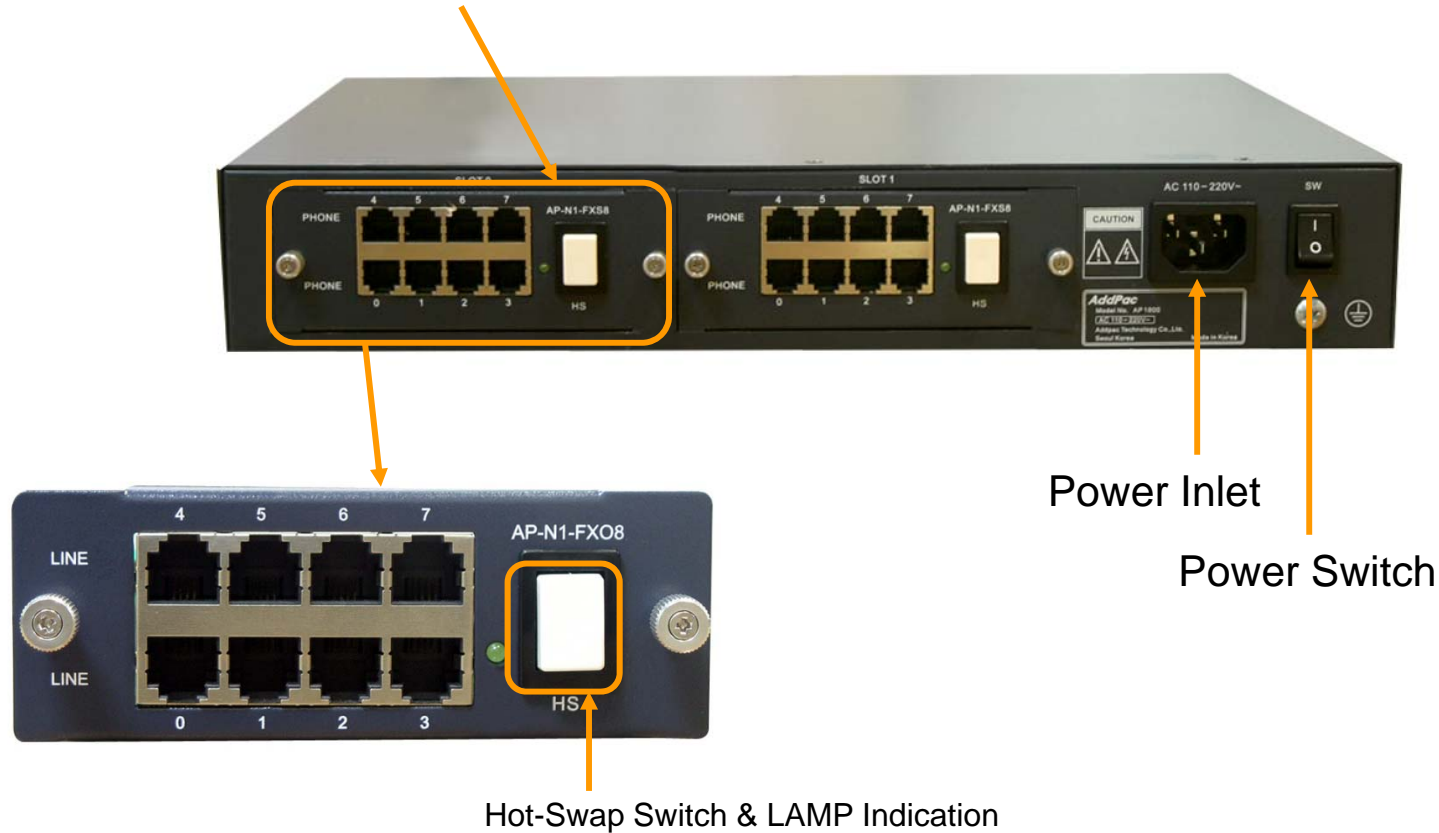


# Hardware Specification

## AP-ACS1000 DACS (Door Access Control System)

### AP-ACS1000 Back Side

PSTN Interface Module










# Hardware Specification

AP-ACS1000 DACS (Door Access Control System)

## PSTN Interface Module

<b>AP-N1-FXS8</b>	 A black 8-port FXS voice processing module with RJ11 ports numbered 0-7 and a central switch labeled 'HS'.	8-Port FXS Voice Processing Module (8 x RJ11)
<b>AP-N1-FXO8</b>	 A black 8-port FXO voice processing module with RJ11 ports numbered 0-7 and a central switch labeled 'HS'.	8-Port FXO Voice Processing Module (8 x RJ11)
<b>AP-N1-FXO4S4</b>	 A black 8-port voice processing module with 4 FXO and 4 FXS ports, numbered 0-7, and a central switch labeled 'HS'.	4-Port FXO and 4-Port FXS Voice Processing Module (8 x RJ11)
<b>AP-N1-E1T1</b>	 A black 1-port VoIP digital E1/T1 interface module with an RJ45 port and a central switch labeled 'HS'.	1-Port VoIP Digital E1/T1 Interface Module(1xRJ45)



# AP-ACS500 Door Access Control System

# Main Features

## AP-ACS500 DACS (Door Access Control System)

- Door Access Control Application System
- SIP Application Server, Proxy, Registrar and Location Server
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
- Legacy PBX Interworking Service
- High Performance RISC & Programmable DSP Architecture
- Two(2) 10/100Mbps Fast Ethernet (IP Share ,etc)
- High Performance LAN-to-LAN Routing Capability
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- IPv4/IPv6 Dual Stack
- Firmware Upgradeable Architecture
- Smart Multimedia Manager for IP-PBX Management
- DACM(Door Access Control Manager)
- Advanced Voice QoS Mechanism
- Small, Light and Compact Design
- Power Switch for Stability and Status LEDs



# Hardware Specification

## AP-ACS500 DACS (Door Access Control System)

- RISC Microprocessor Computing Power + High End Programmable DSP
- VoIP Gateway Interface
  - Model A: Basic Configuration
  - Model B: Two(2) FXO Port
  - Model C: Four(4) FXO Port
  - Model D: Two(2) FXS + Two(2) FXO Port
- Network Interface
  - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- USB Interface
  - One(1) USB Host Mode Interface for USB Memory and Wireless LAN
- Power Supply
  - External Power Adaptor
- Power On/Off Switch
- Power LED, LAN LEDs, FXO Port LEDs

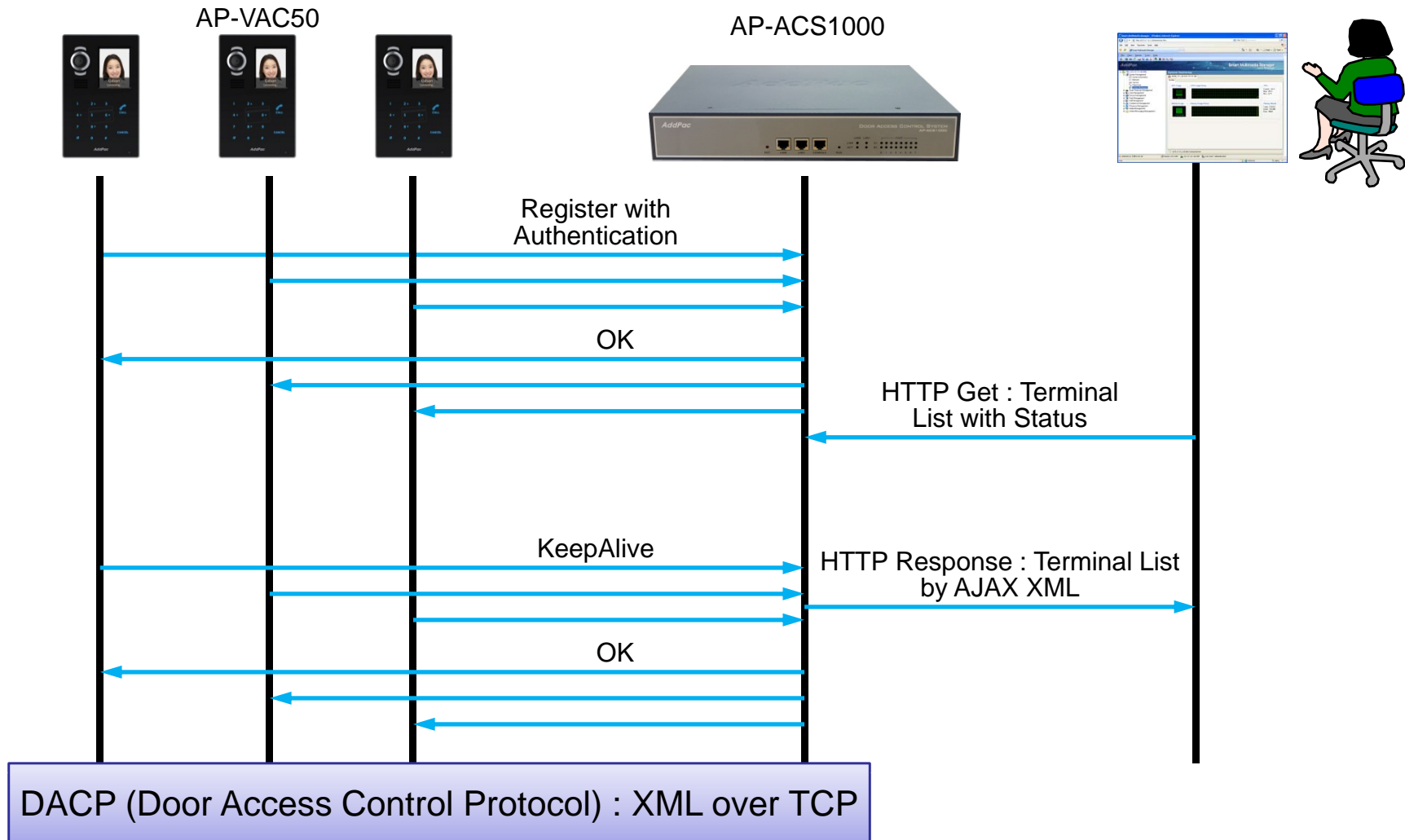




# DACS System Message Flow

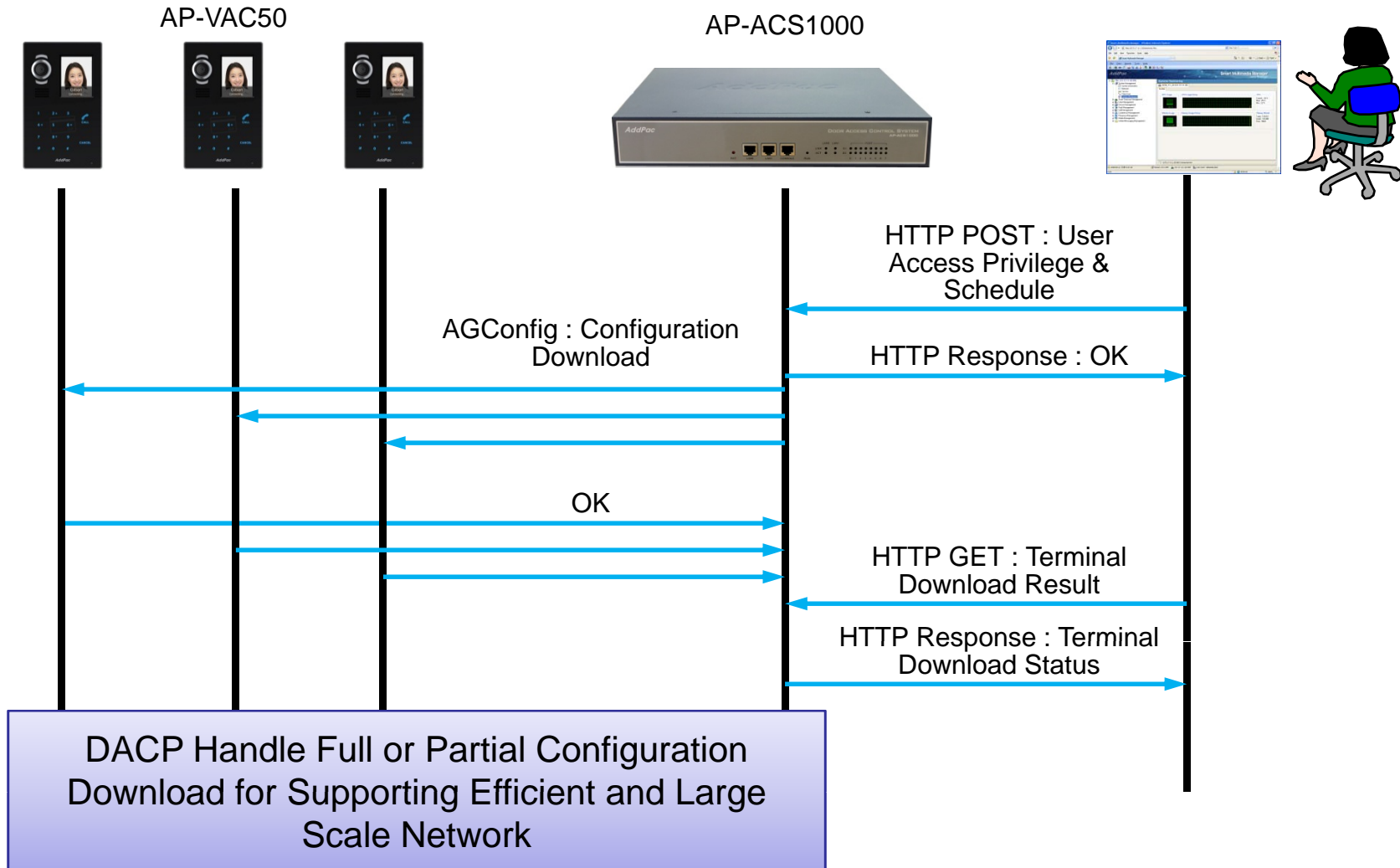
# DACS System Message Flow

## Registration and KeepAlive



# DACS System Message Flow

## Access Privilege and Schedule Download



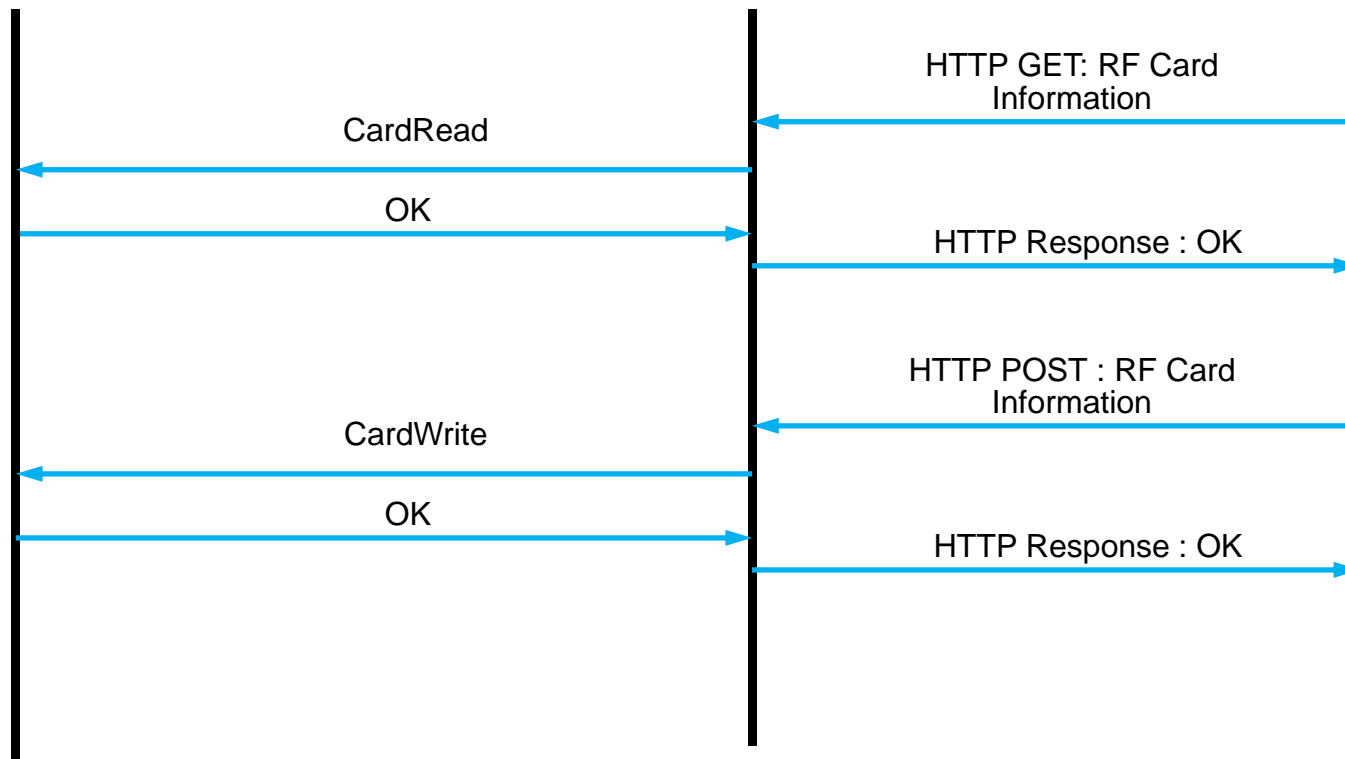
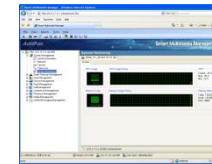
# DACS System Message Flow

## RF Card Read/Write and Registration

AP-VAC50



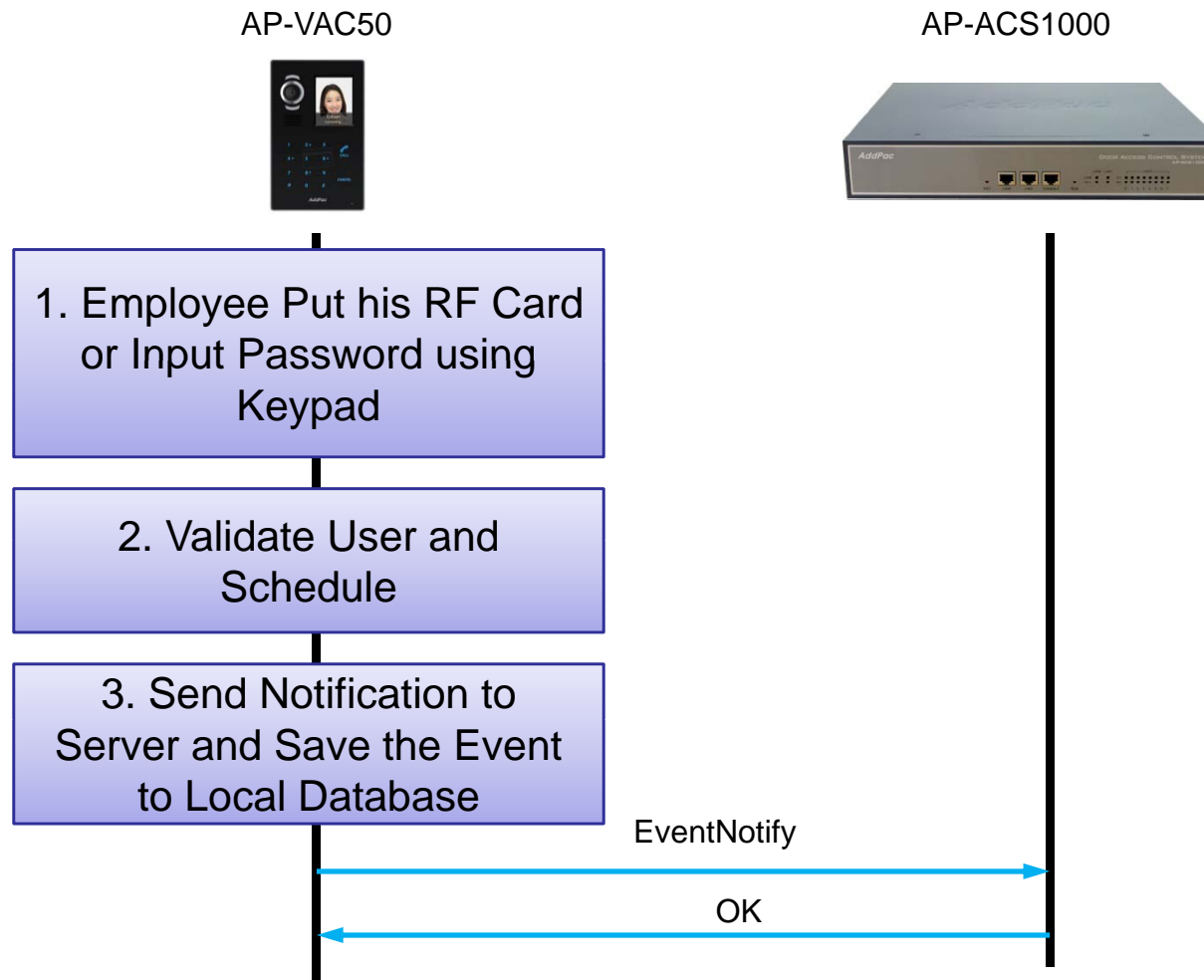
AP-ACS1000





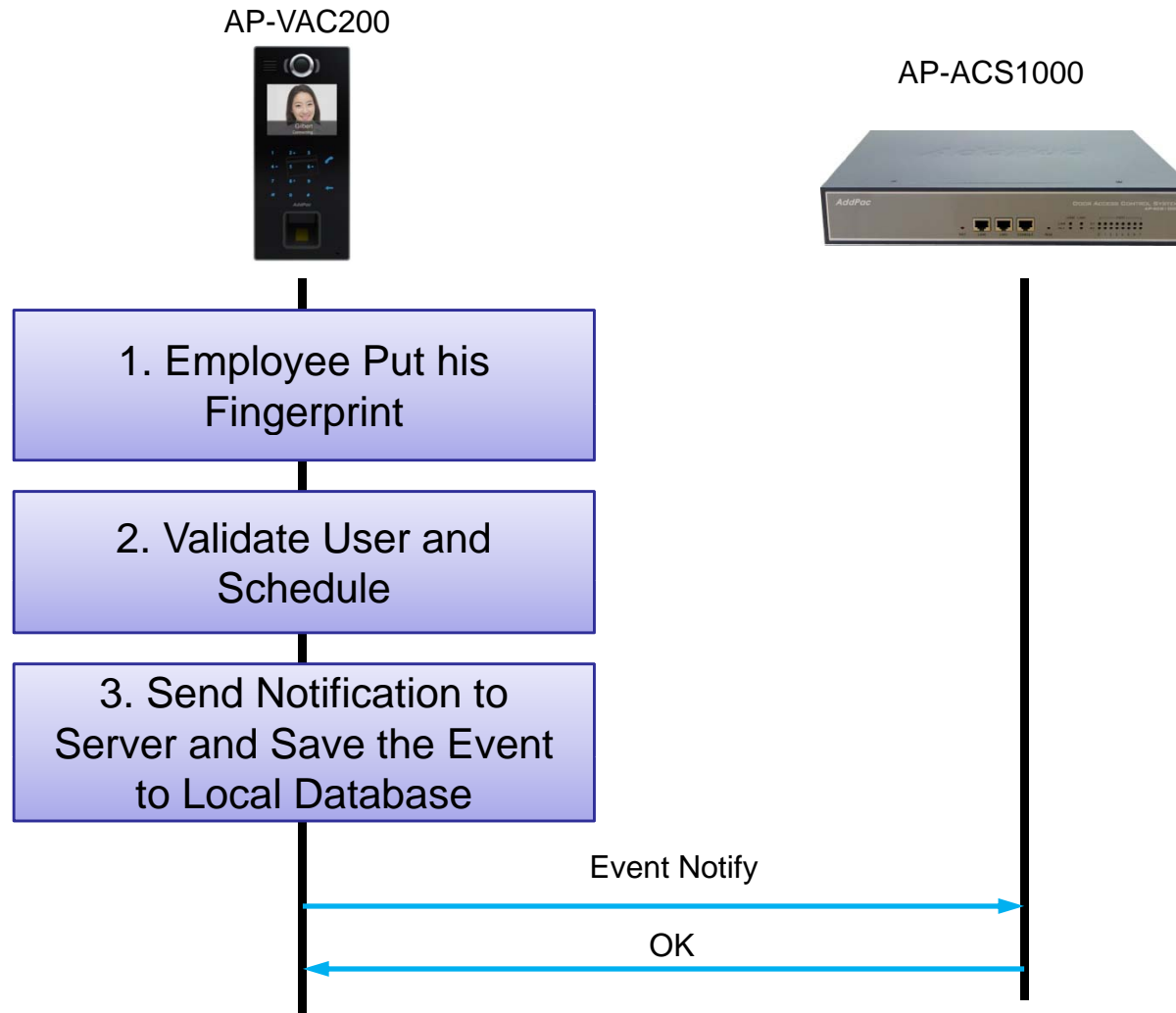
# DACS System Message Flow

## Door Open by RF Card or Password



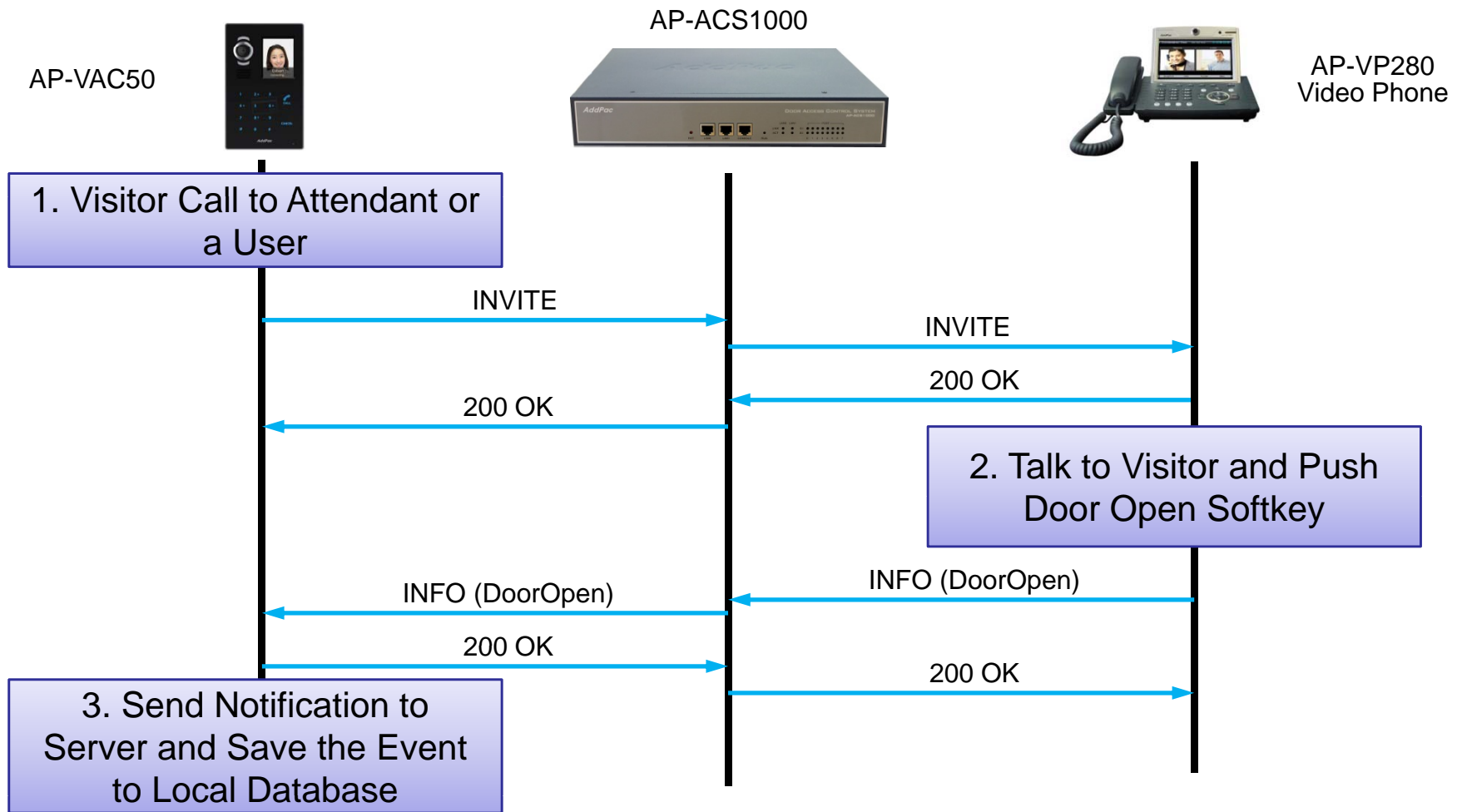
# DACS System Message Flow

## Door Open by Fingerprint



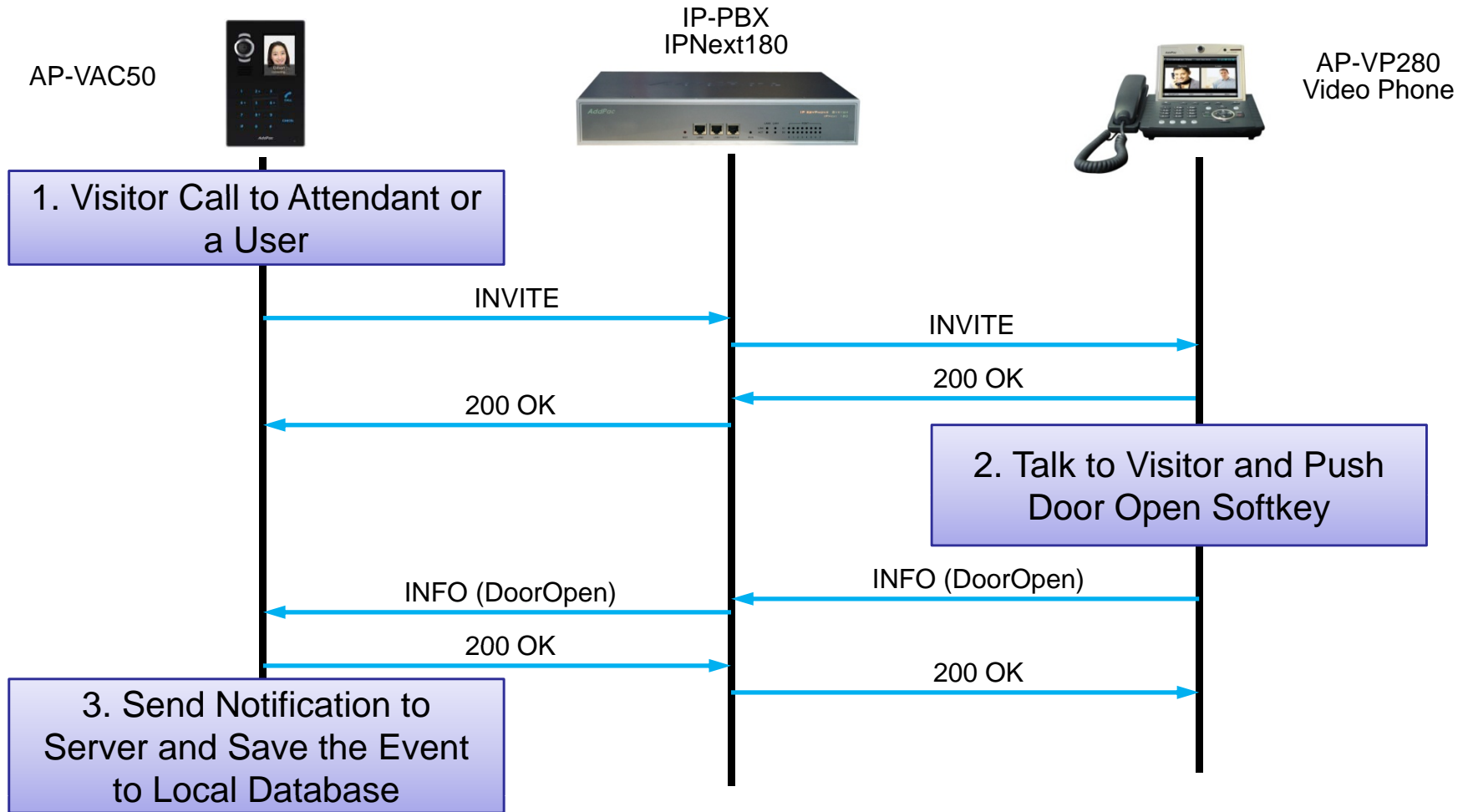
# DACS System Message Flow


## Door Open by Other Terminal



# SIP VoIP Message Flow

## Door Open by Other Terminal





# Door Access Control System Web Manager Software (DACM, TAAM)

# 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 the following fields:

- Administrator ID:
- Password:

Below the login form are two buttons:

- Door Access Control Manager**: Includes a green arrow icon and a smartphone icon.
- Time and Attendance Manager**: Includes a green arrow icon and a clock/chart icon.

Annotations on the screenshot:

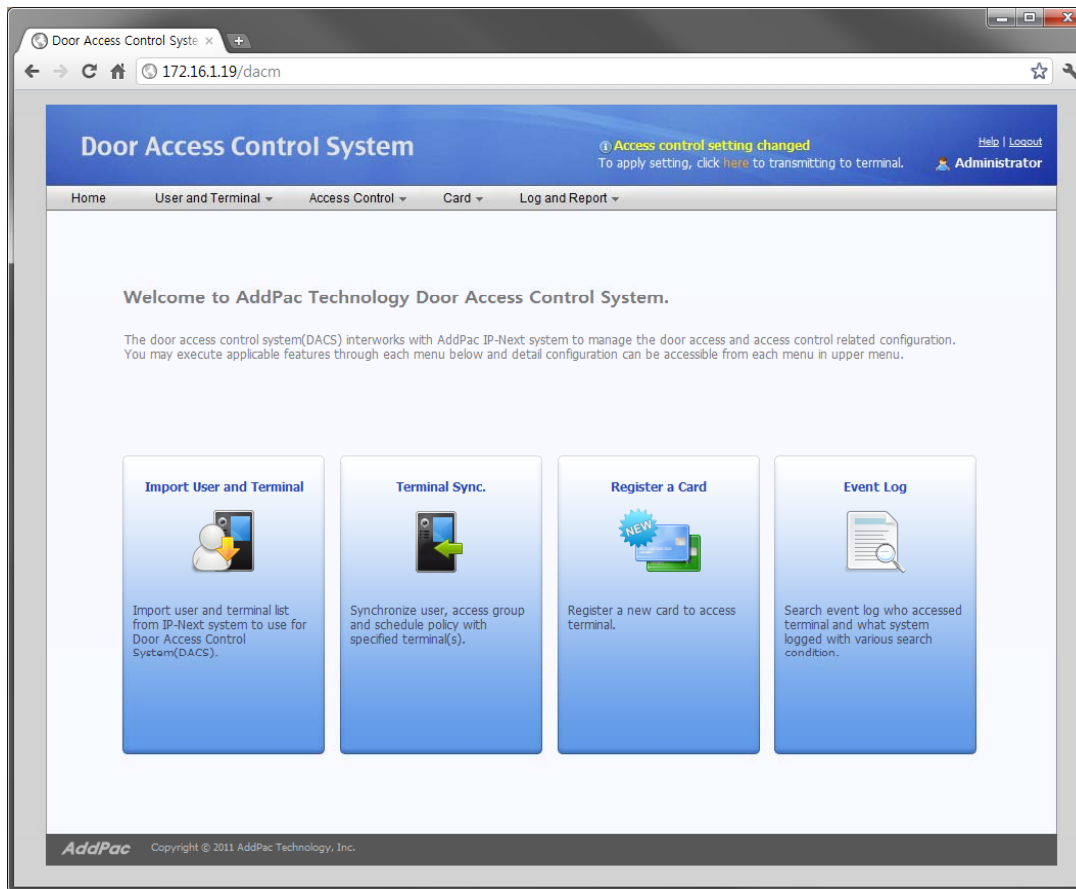
- A yellow box at the top contains the text: "You can log on 'Door Access Control Manager' or 'Time and Attendance Manager' if license is valid and administrator have authentication right". A yellow arrow points from this box to the login form.
- A blue box on the left contains the text: "Log on to Door Access Control Management". A blue arrow points from this box to the "Door Access Control Manager" button.
- A blue box on the right contains the text: "Log on to Time and Attendance Management". A blue arrow points from this box to the "Time and Attendance Manager" button.



# Door Access Control Web Manager Software (DACM)

# DACM (Door Access Control Manager)

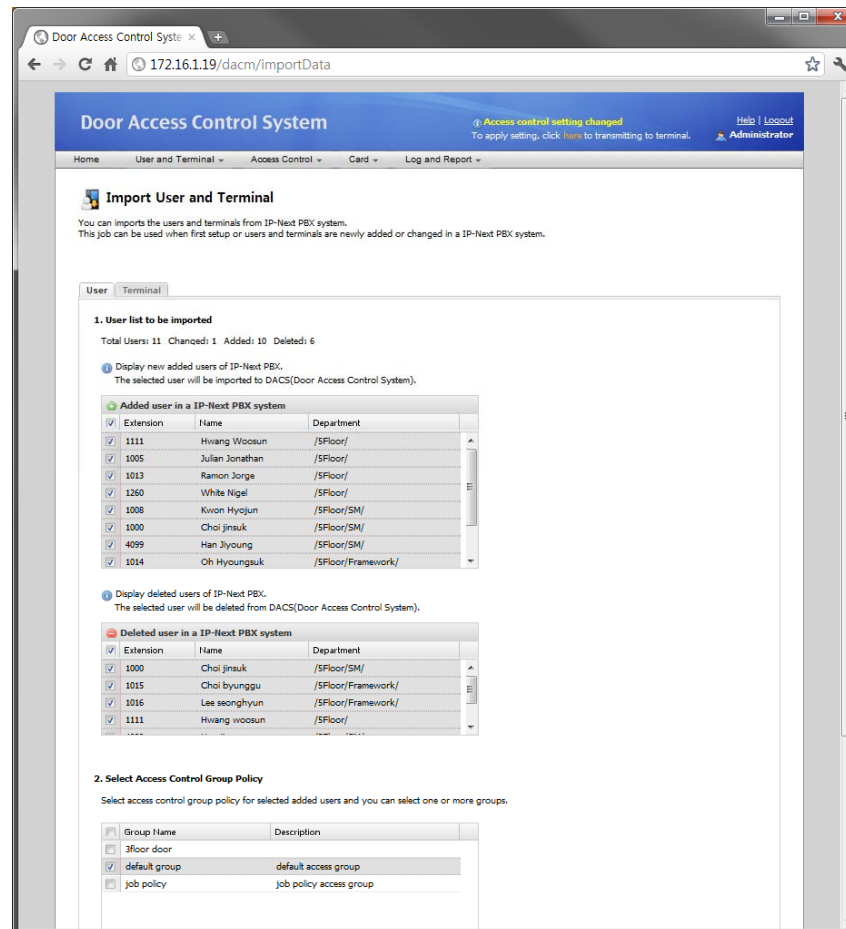
## Main Web Page





# DACM (Door Access Control Manager)

## Import User and Terminal



# DACM (Door Access Control Manager)

## User List

## User List

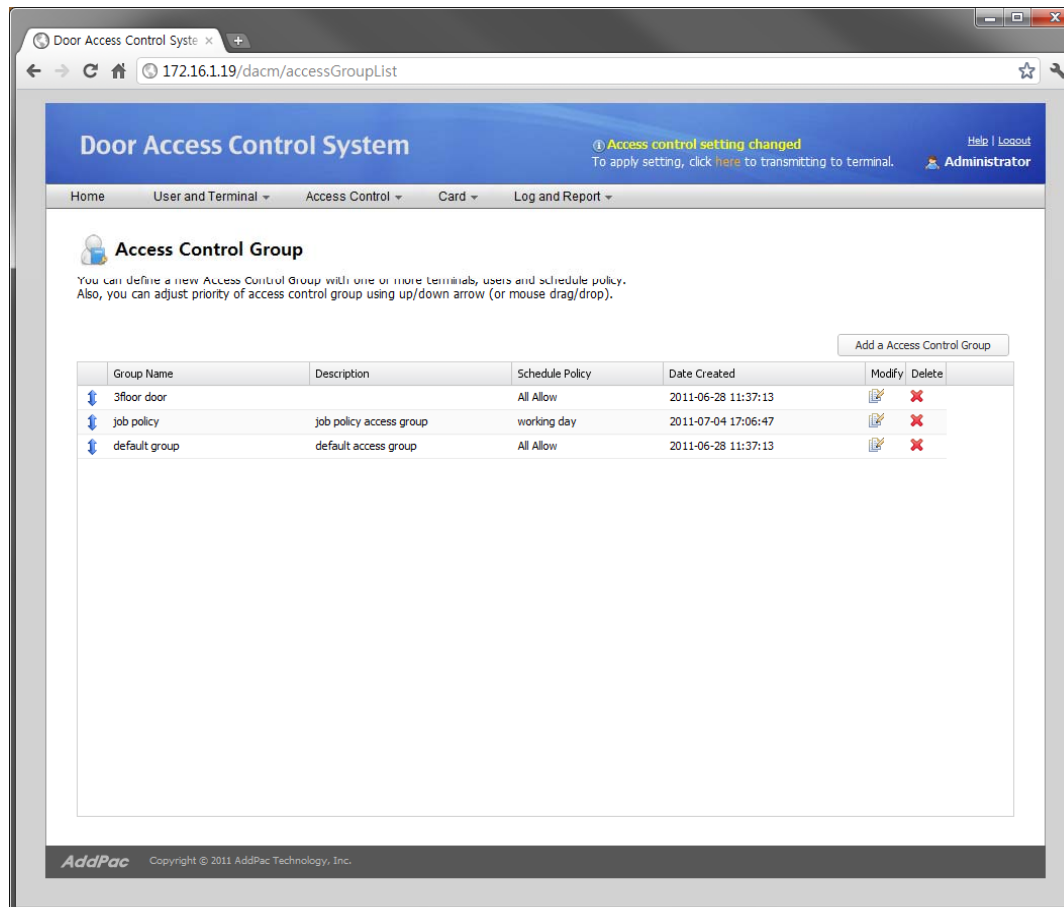
The screenshot shows a web browser window displaying the 'Door Access Control System' user list. The page title is 'Door Access Control System' and the URL is '172.16.1.19/dacm/userList'. A notification at the top right states 'Access control setting changed' with a link to 'To apply setting, click here to transmitting to terminal.' and a 'Logout' button. The navigation menu includes 'Home', 'User and Terminal', 'Access Control', 'Card', and 'Log and Report'. The main content area is titled 'User List' and contains a search bar with a dropdown menu set to 'All Users', an 'Input search word' field, and a 'Search' 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 footer with the 'AddPac' logo and the text 'Copyright © 2011 AddPac Technology, Inc.' The page navigation shows 'Page 1 of 1' and 'Total: 5'.

# 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

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

### Card List

Display registered card list. Also, you can register a new card or modify/delete selected card(s).

Search List: All card

Serial Number	Extension	Username	Status	Description	Date Created	Modify	Delete
1 4000238	1008	Kwon hyojun	<input checked="" type="checkbox"/> Specified	Temporary cards are issued.	2011-07-08 15:59:03		
2 123456789			<input type="checkbox"/> Unspecified		2011-07-22 16:17:04		

Page 1 of 1 Total: 2

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# DACM (Door Access Control Manager)

## Fingerprint Management

The screenshot shows the 'Door Access Control Manager' web interface. The browser address bar displays '172.17.216.250/webapps/dacm/updateUser/1007'. The page title is 'Door Access Control Manager'. A notification banner at the top right states: 'Access control setting changed. To apply setting, click here to transmitting to terminal.' The user is logged in as 'root'. The navigation menu includes: Home, User and Terminal, Access Control, Card, and Log and Report.

The main content area is titled 'User Information and Policy' and contains a '1. Profile' section with the following fields:

- Extension Number: 1007 (2~12 digits)
- First Name: [Empty]
- Last Name: 최진석 선임
- Position: [Empty]
- Department: /5F/Smart work/Smart Manage
- E-Mail: jschoi@addpac.com
- Home Phone: [Empty]
- Mobile Phone: 01026339101
- Card Serial Number: 32480D32 (with 'Register a Card' button)
- Fingerprint 1 Serial Number: 27\_1 (with 'Fingerprint Scan' and 'Delete' buttons)
- Fingerprint 2 Serial Number: 27\_2 (with 'Fingerprint Scan' and 'Delete' buttons)
- Picture: [User Profile Picture]

The fingerprint management section (rows 7 and 8) is highlighted with a red dashed border.

# DACM (Door Access Control Manager)

## Access Log Management

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

### Event Log

Display various event log with search conditions(user, datetime, terminal registration..).

Duration : 11-07-10 ~ 11-08-09

User Extension Number :


Event Level : Error

Search Reset

	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

Page 1 of 1 Total: 7

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# Time Attendance Web Manager Software (TAAM)



# 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 entries and three callout boxes explaining specific details.

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:...		

**Annotations:**

- 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

Page 1 of 1 Total: 2

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# 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		

Annotations on the screenshot:

- A yellow dashed box highlights the first 10 rows of the table.
- A yellow box with red text points to the first 10 rows: "show built-in and user-defined time and attendance code which will be used in the attendance report and log correction".
- A yellow box with red text points to the first 9 rows: "system built-in time and attendance code is provided as default, for example late-in, early-out and absence".
- A yellow box with red text points to the delete icon for the "Sick Leave" row: "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. 08:00

**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**

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)**

Type

- Late In: 1
- Early Out: 1
- Normal: 10

	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

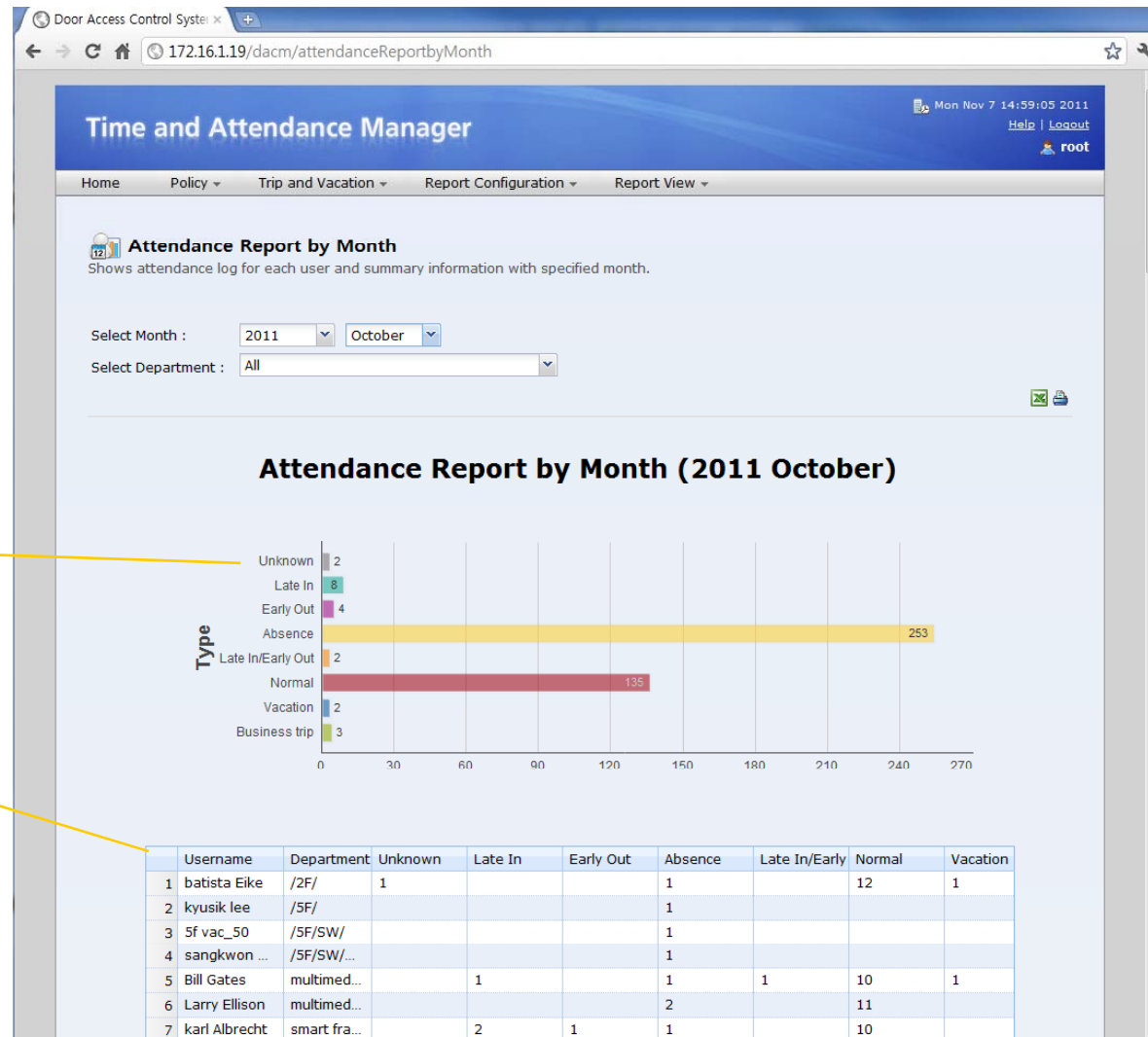
# TAAM (Time and Attendance Manager)

## Attendance Report Excel Export

<b>Attendance Report by Date (2011-10-19)</b>							
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

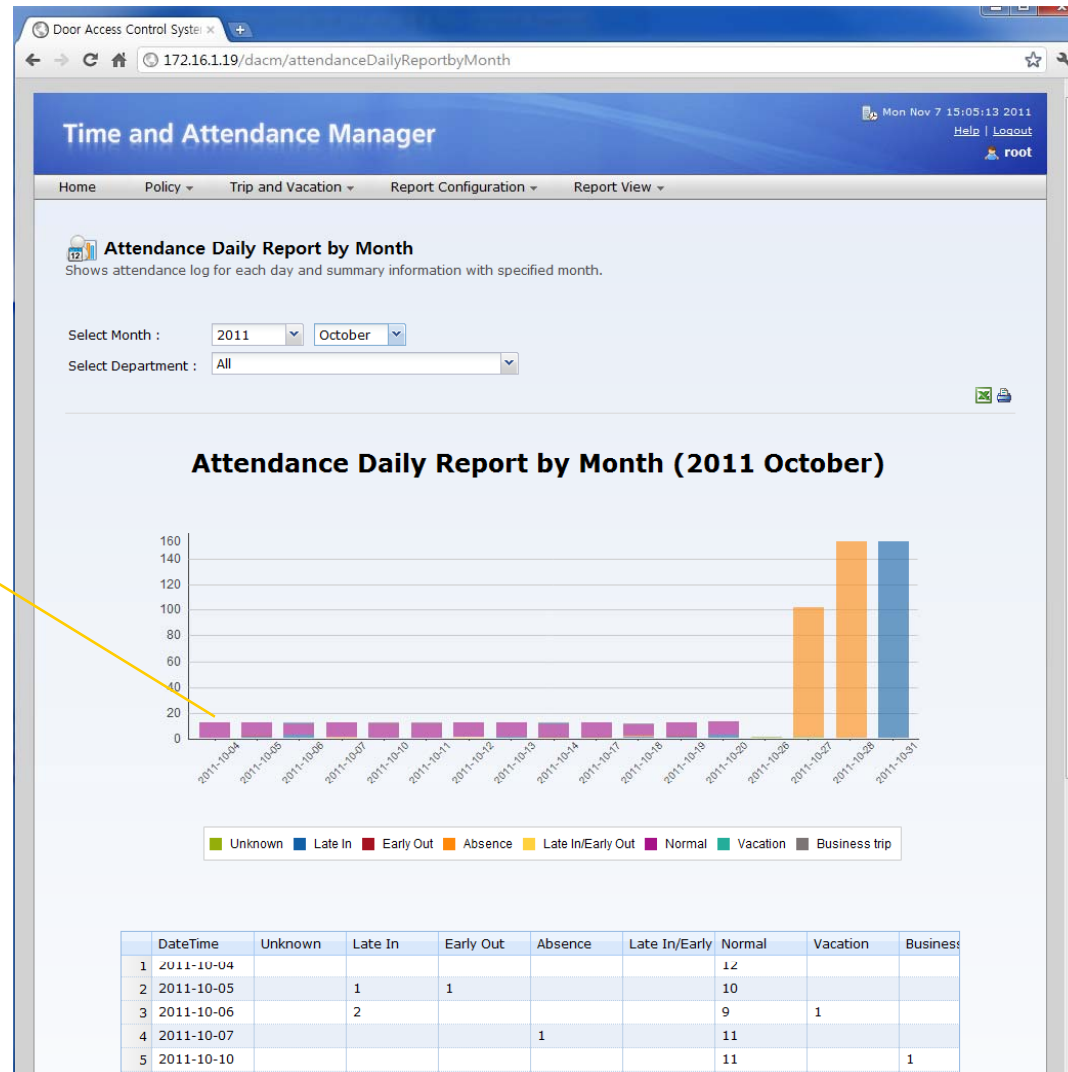


attendance summary for each time and attendance code with specified month

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

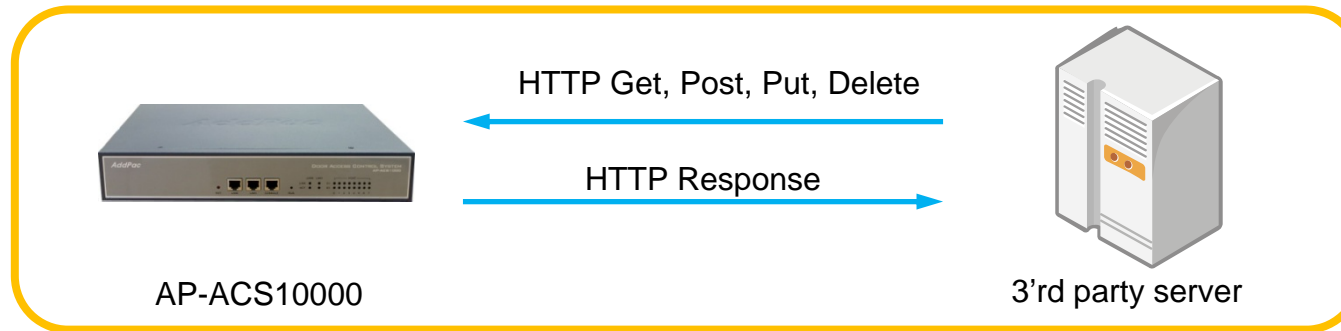




# Door Access Control Server Open API

# 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) ,...



# Thank you!

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