IP Video Door Phone Solution

AP-VP280

AP-ACS1000
(Door Access Control Server)

AP-VAC20 AP-VAC50 AP-VAC100 AP-VAC200

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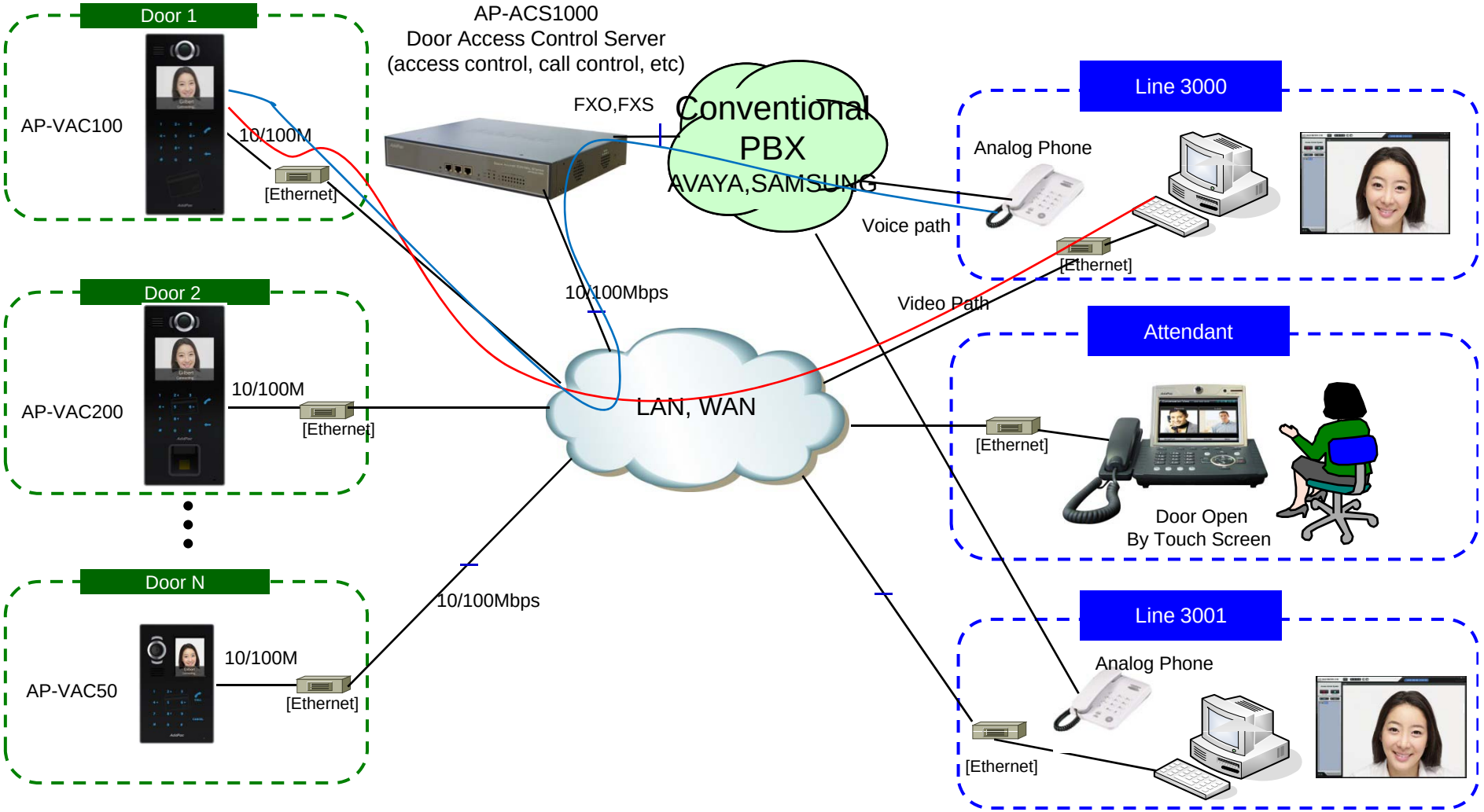
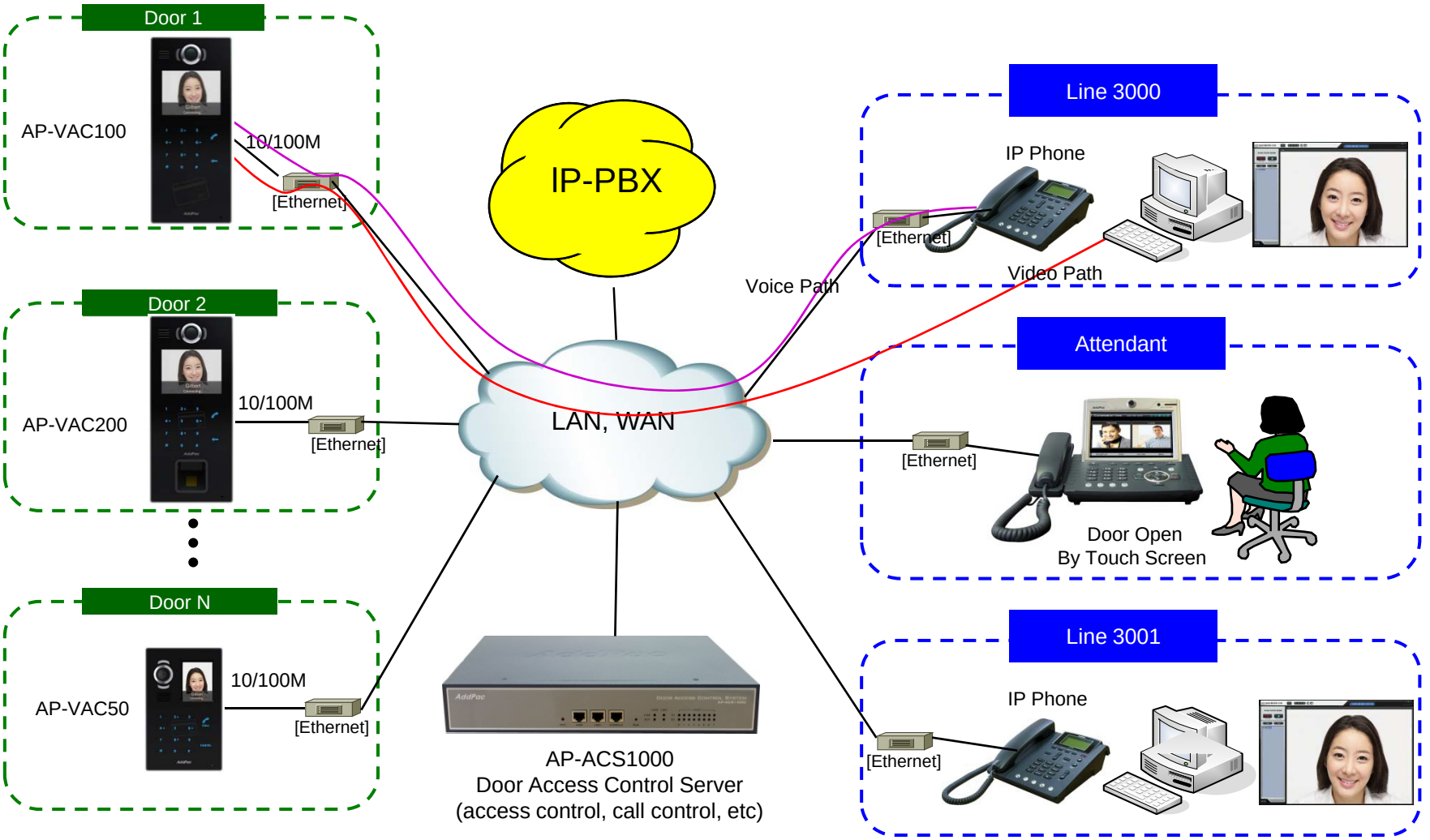
- Backend Solution
  - AP-VP280, AP-VP120 Video Phone
  - AP-ACS100 Door Access Control Server & Web based Video Access Control Client(User registration, etc)
  - Video Only Door Control S/W for Desktop

Conventional PBX Environment



IP-PBX Environment



AP-ACS1000
Door Access Control Server

Contents

- DACS(Door Access Control Server) Network Diagram
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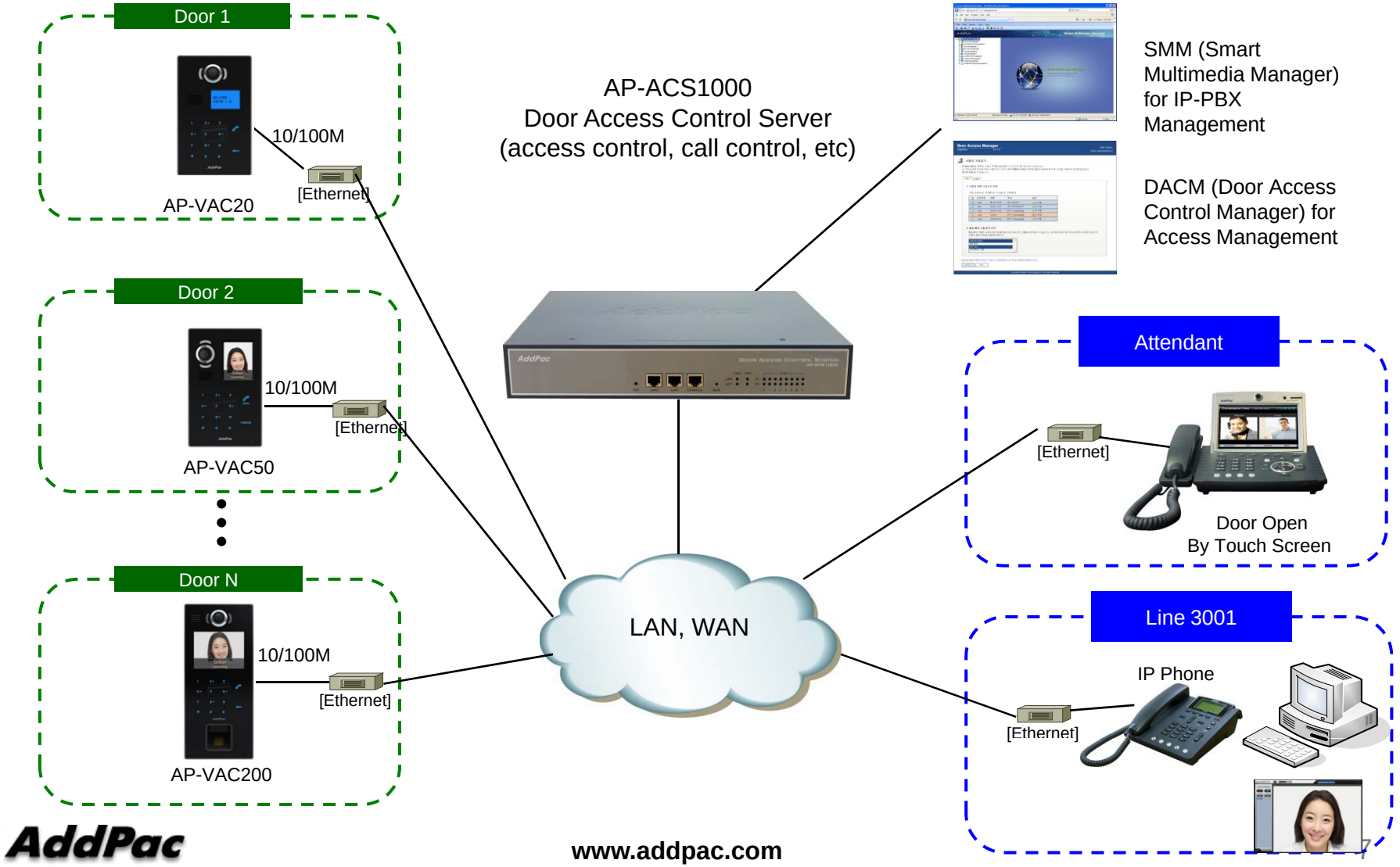
- Open API for Third Party Controller

Integrated Door Access Control and Call Control

AP-ACS1000 DACS (Door Access Control Server)



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

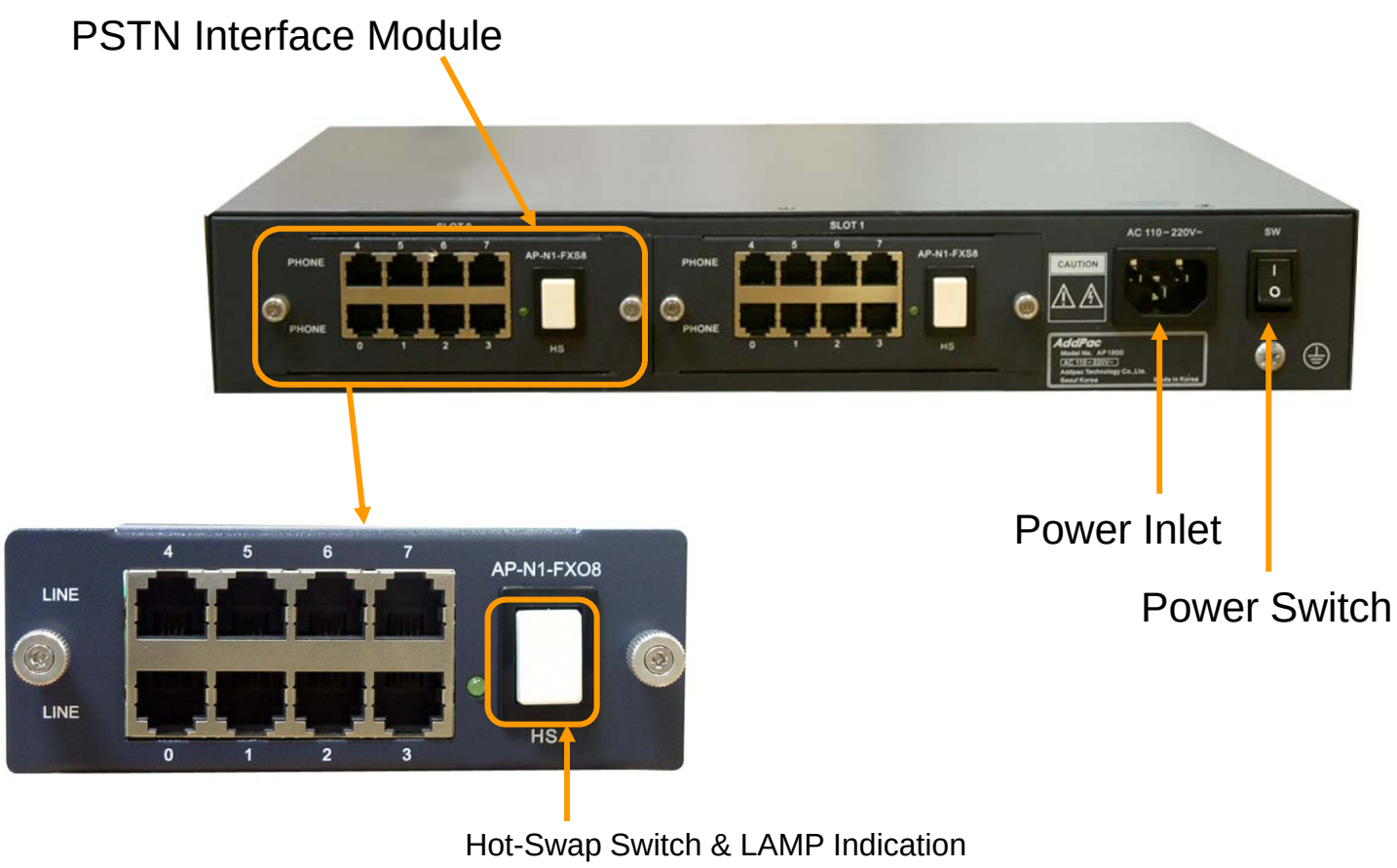
AP-ACS1000 DACS (Door Access Control System)

- 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



Hardware Specification

AP-ACS1000 DACS (Door Access Control System)

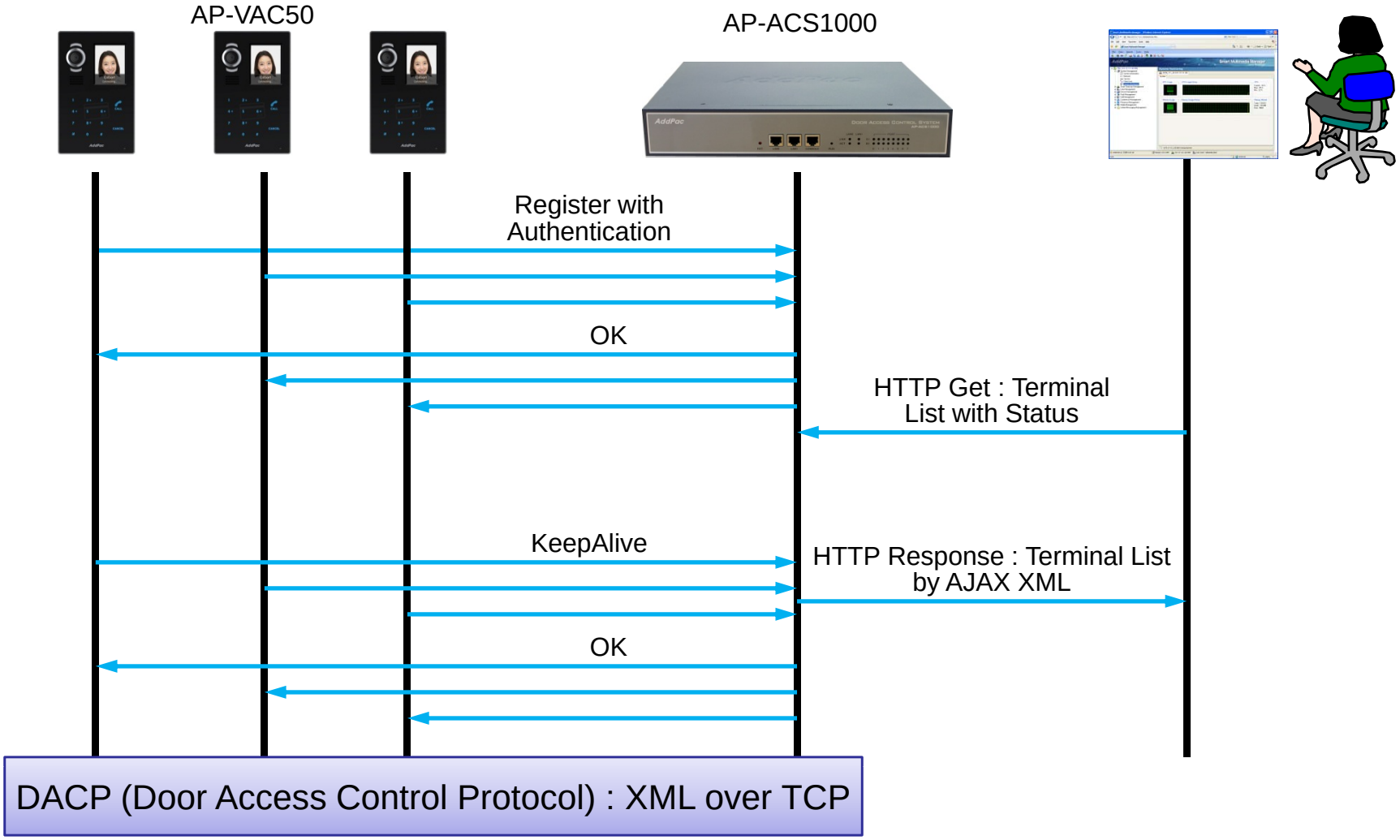
PSTN Interface Module

AP-N1-FXS8		8-Port FXS Voice Processing Module (8 x RJ11)
AP-N1-FXO8		8-Port FXO Voice Processing Module (8 x RJ11)
AP-N1-FXO4S4		4-Port FXO and 4-Port FXS Voice Processing Module (8 x RJ11)
AP-N1-E1T1		1-Port VoIP Digital E1/T1 Interface Module(1xRJ45)

DACS
System Message Flow

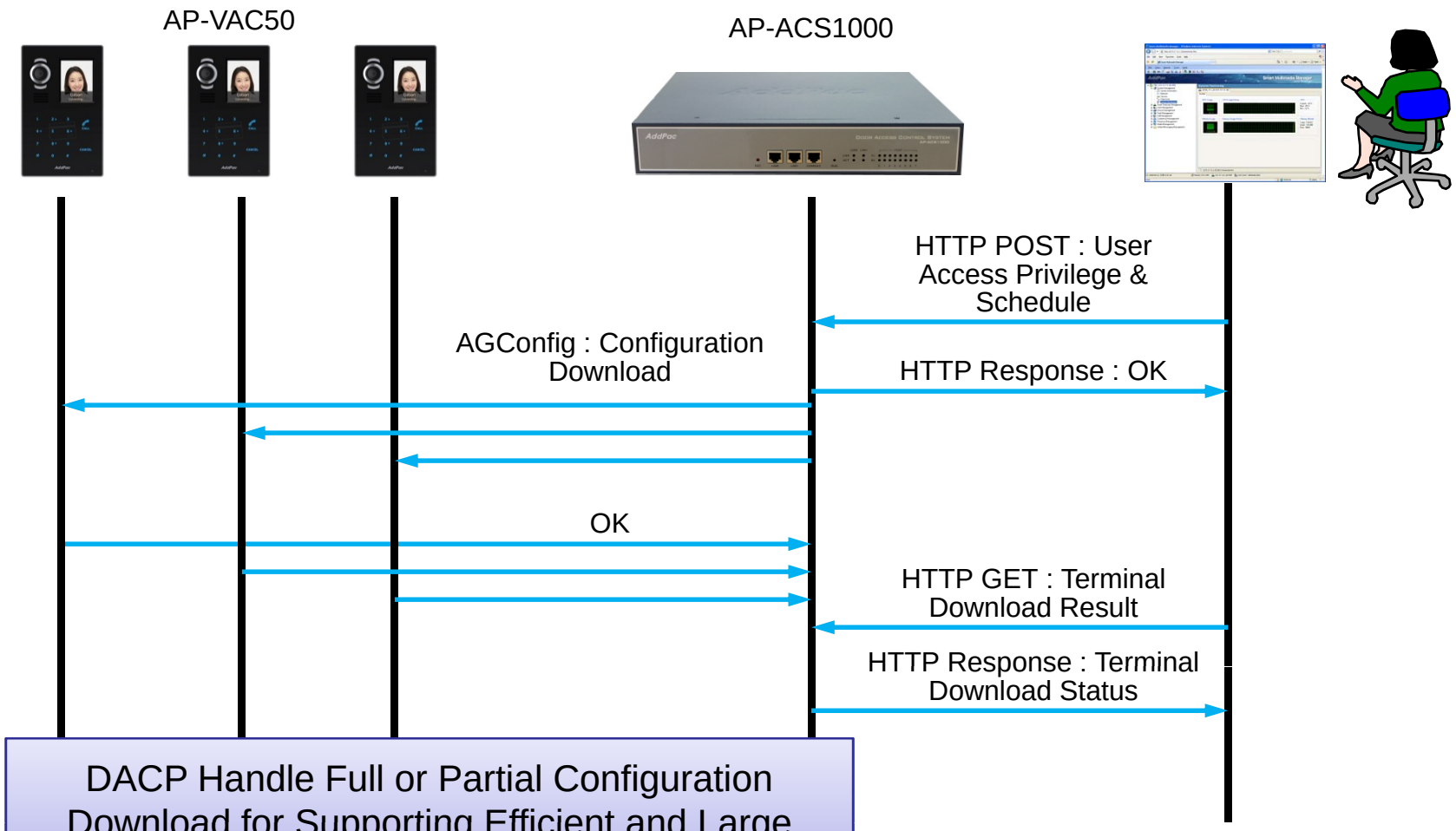
DACS System Message Flow

Registration and KeepAlive



DACS System Message Flow

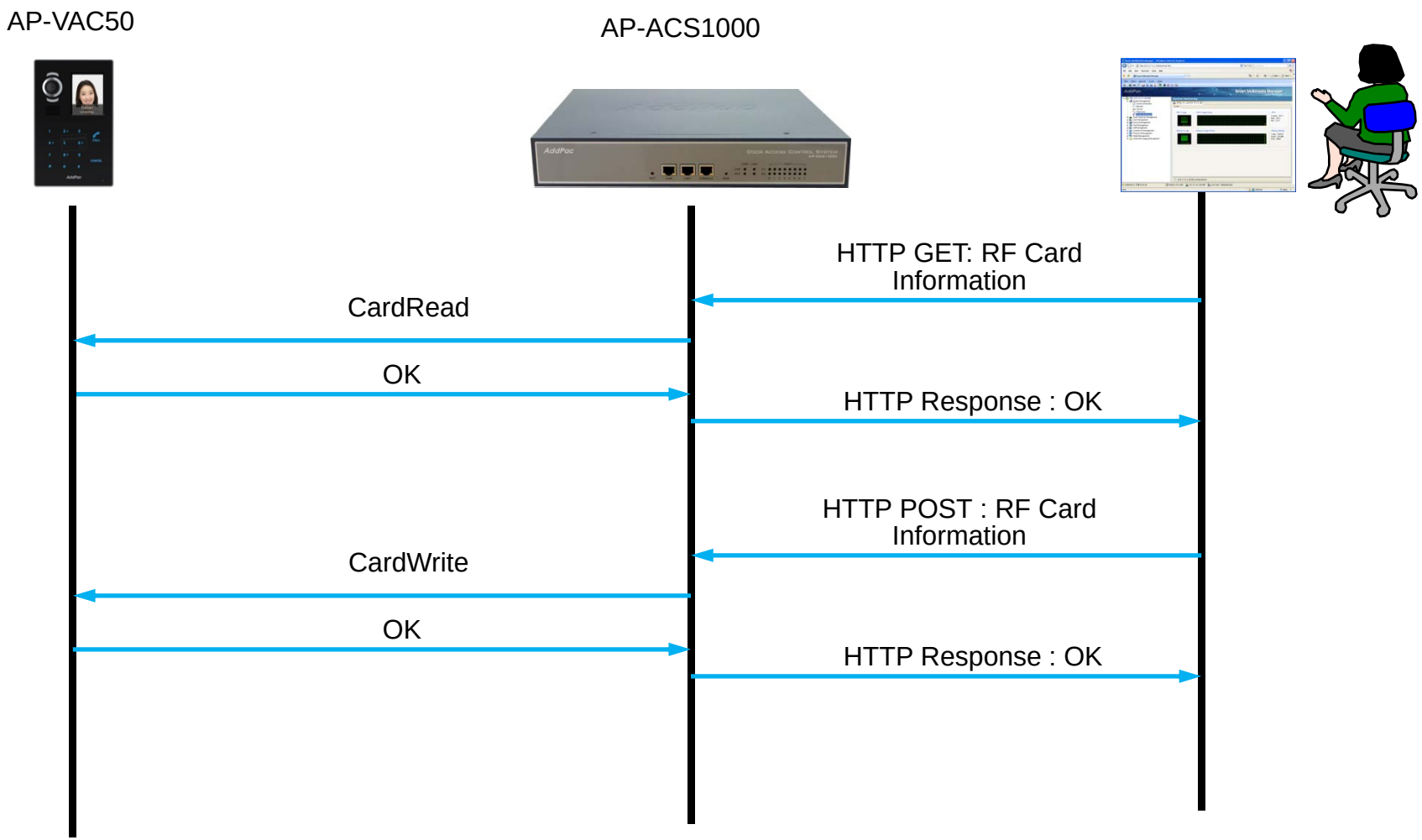
Access Privilege and Schedule Download



DACP Handle Full or Partial Configuration Download for Supporting Efficient and Large Scale Network

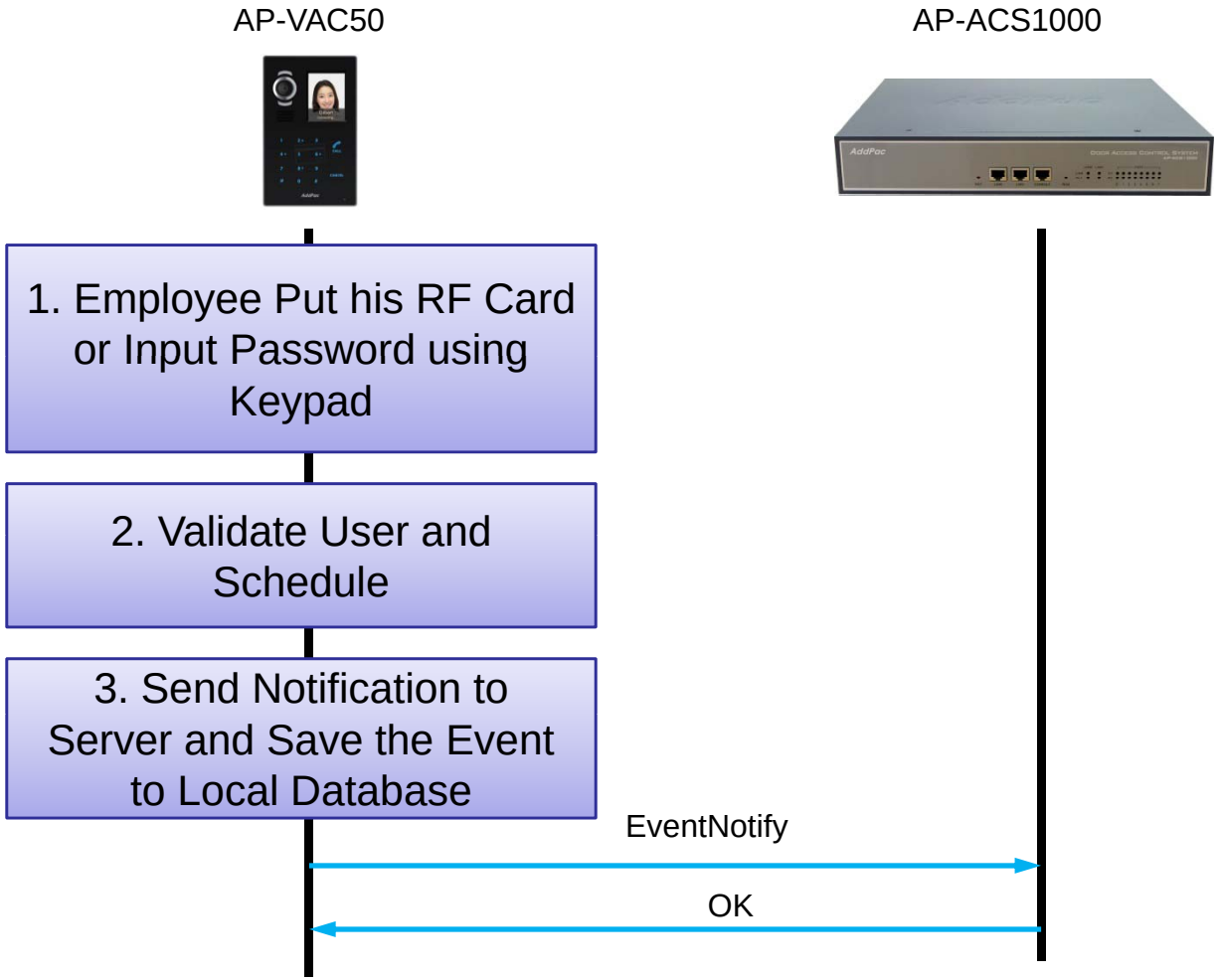
DACS System Message Flow

RF Card Read/Write and Registration



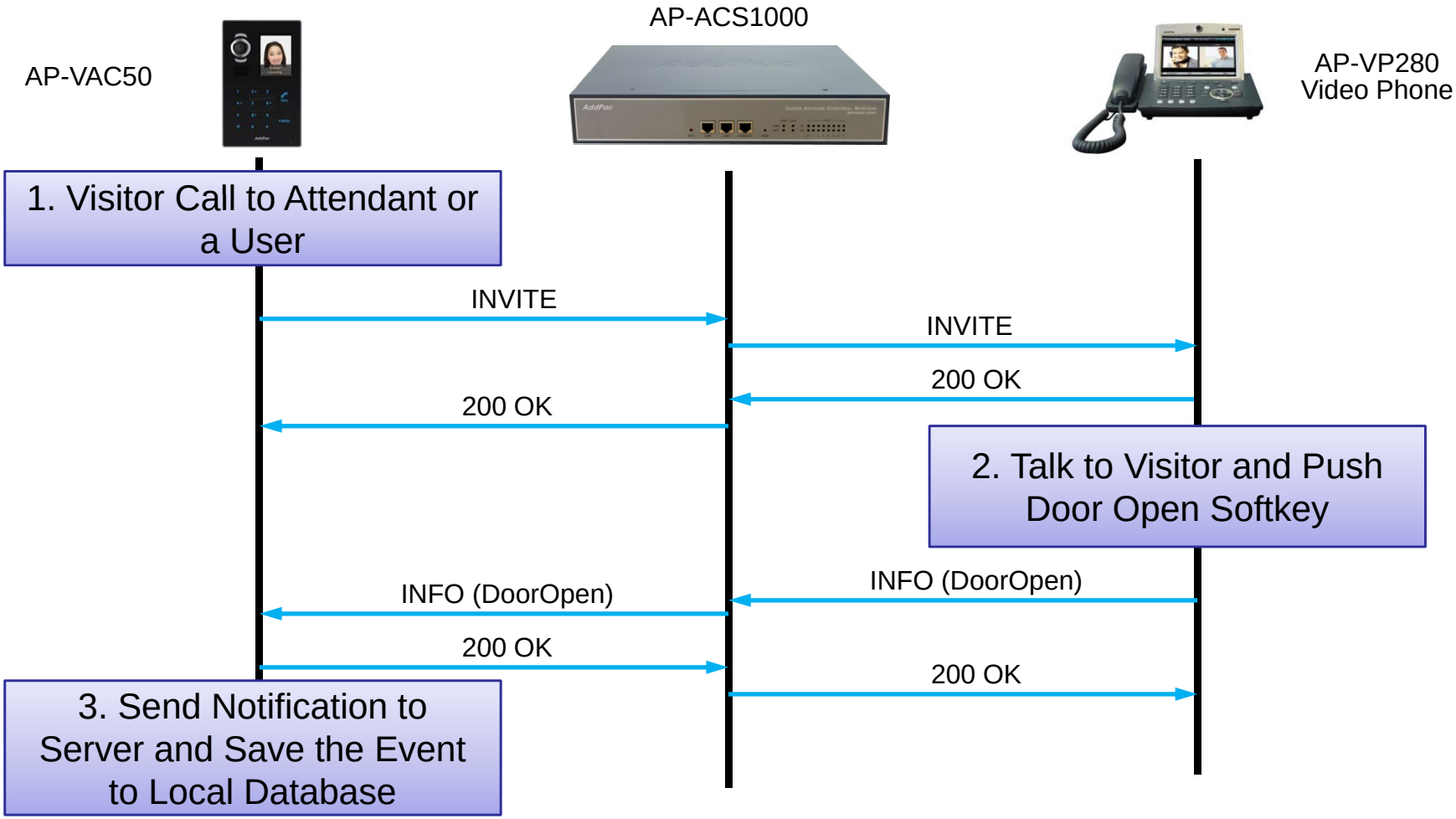
DACS System Message Flow

Door Open by RF Card or Password



DACS System Message Flow

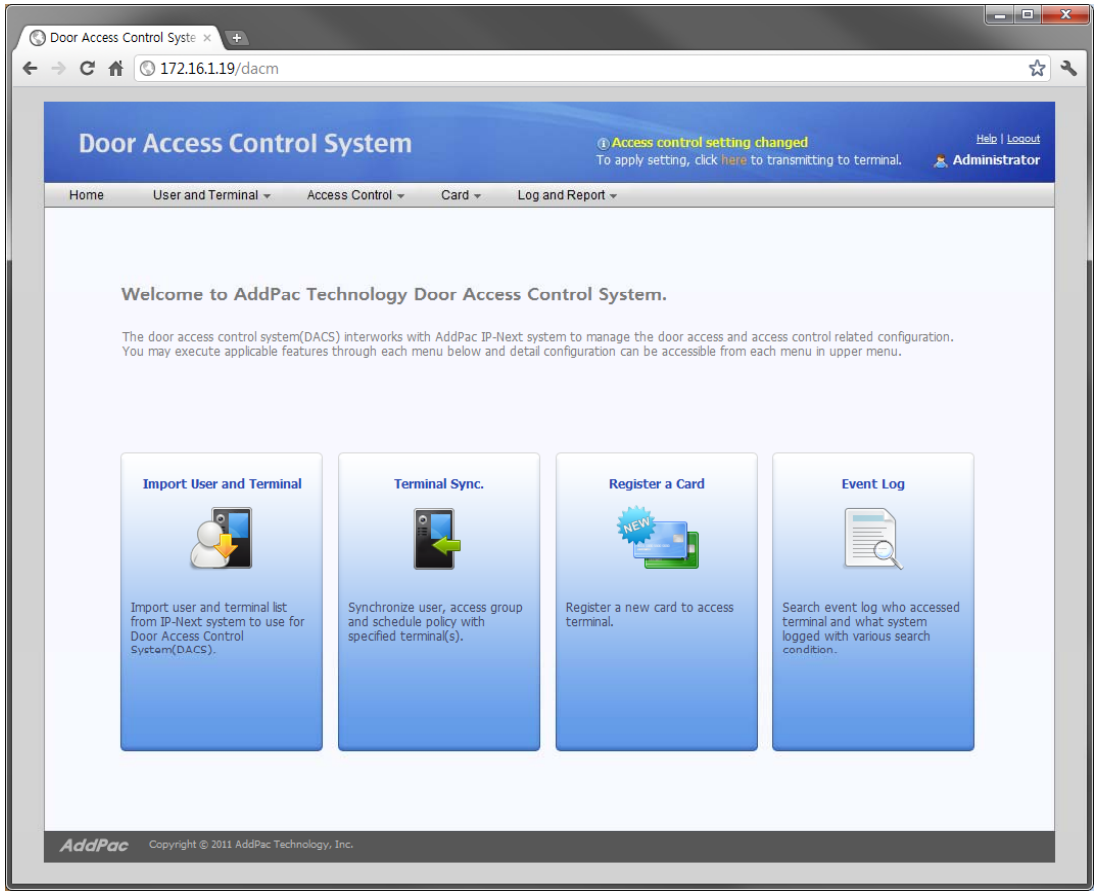
Door Open by Other Terminal



Door Access Control Manager for AP-ACS1000

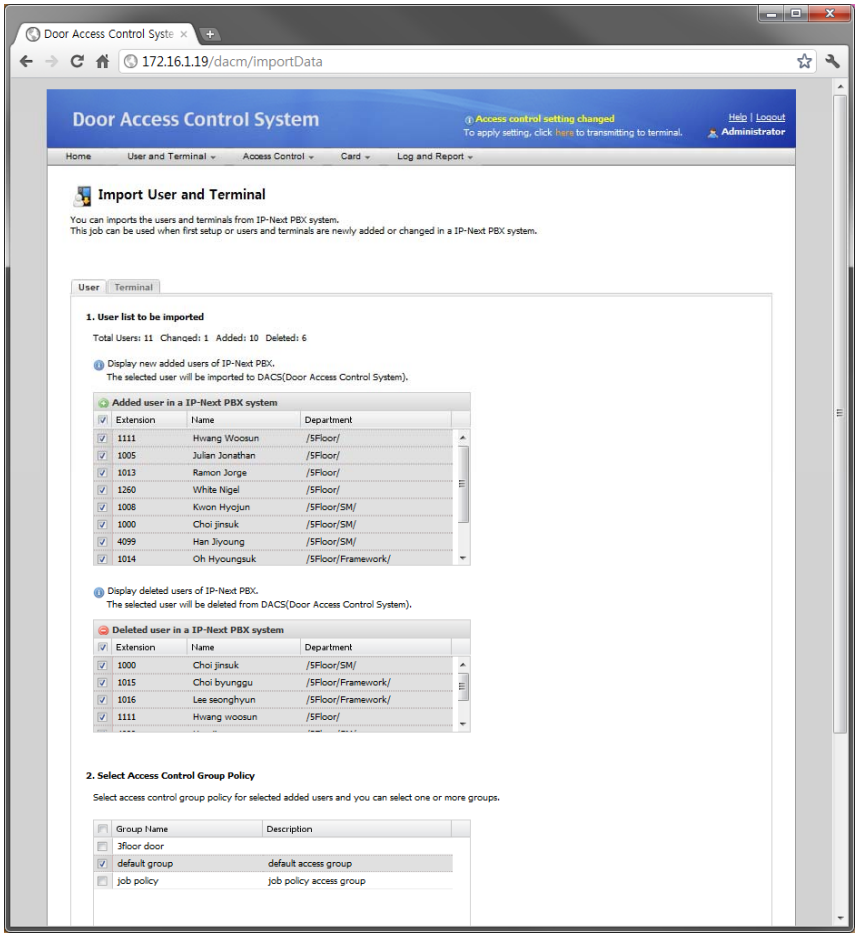
DACM (Door Access Control Manager)

Main Web Page



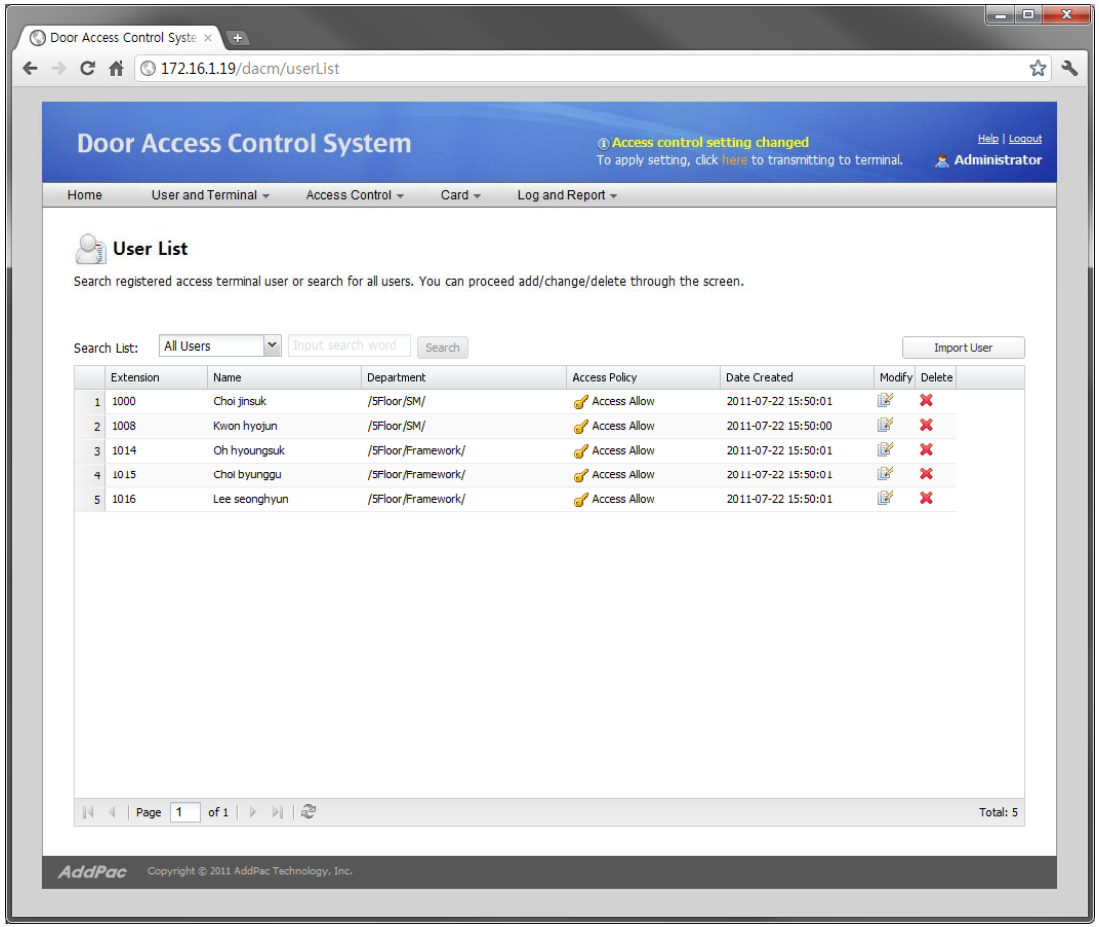
DACM (Door Access Control Manager)

Import User and Terminal



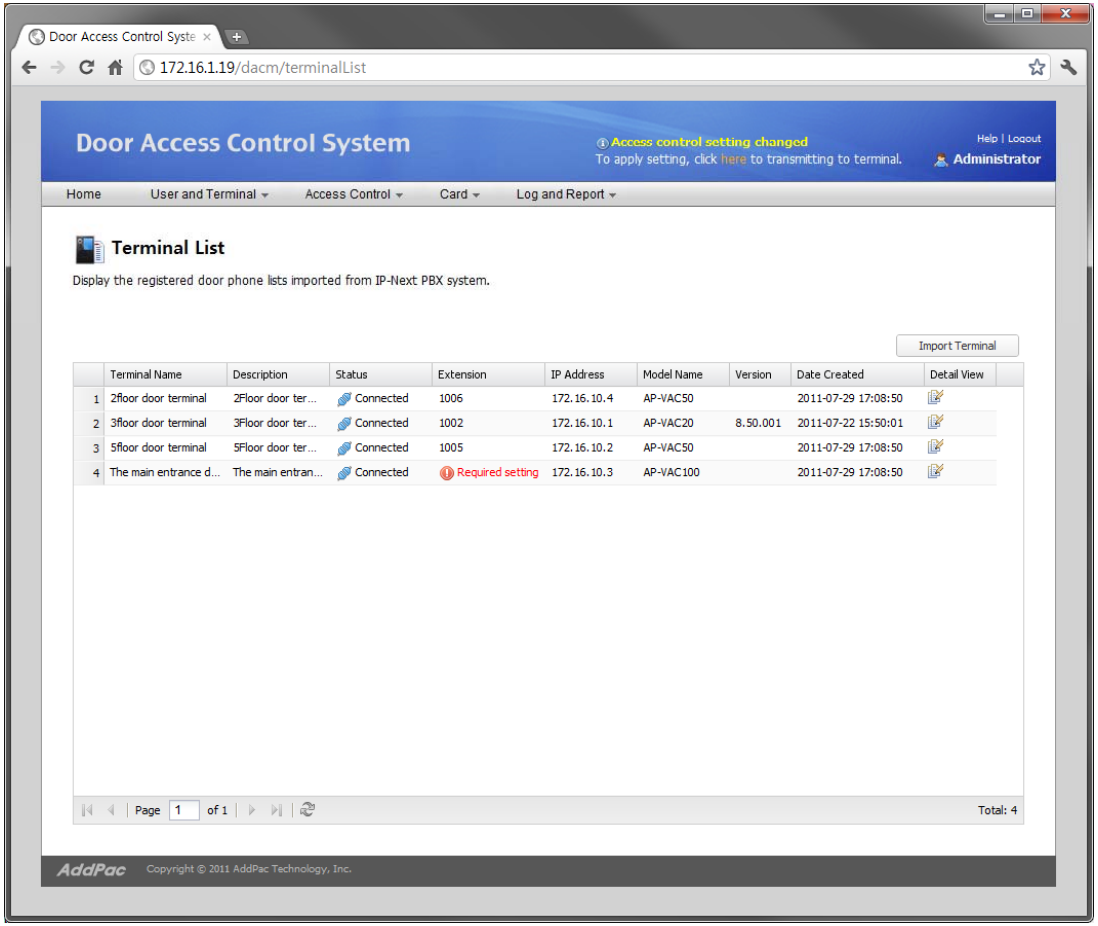
DACM (Door Access Control Manager)

User List



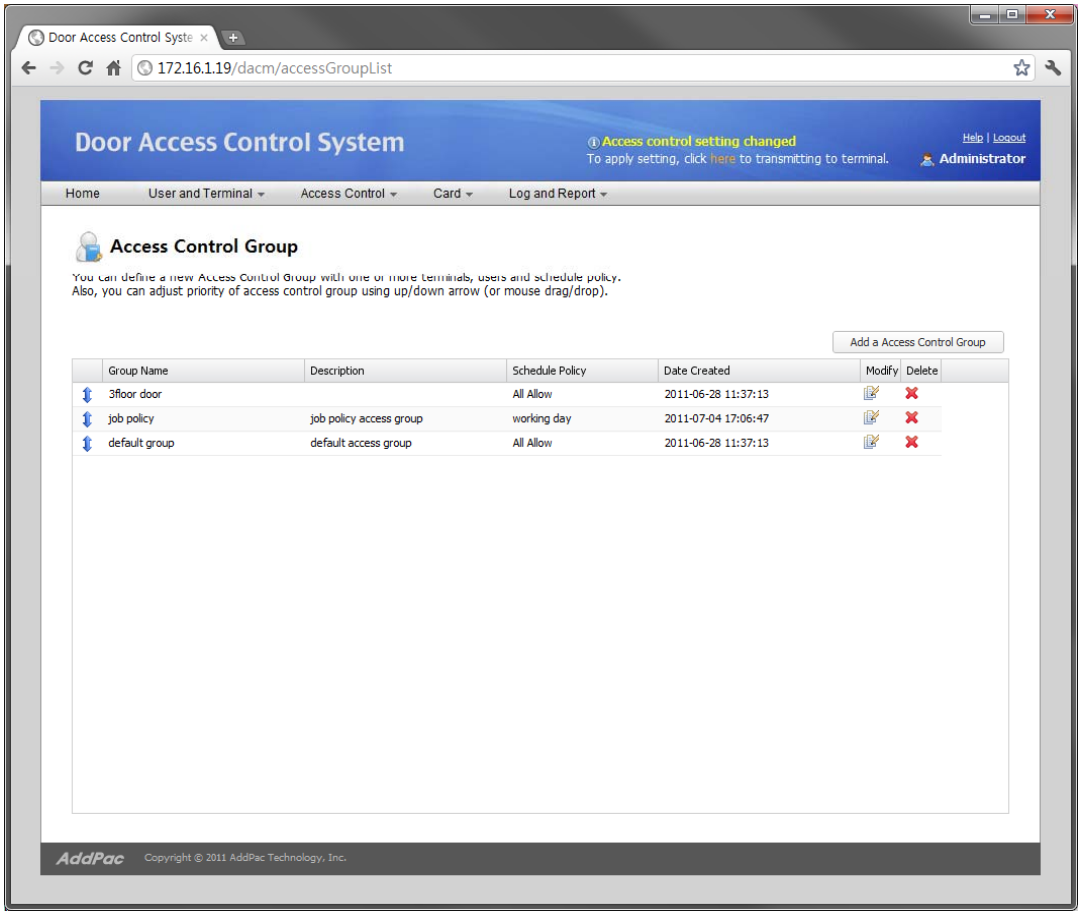
DACM (Door Access Control Manager)

Terminal List



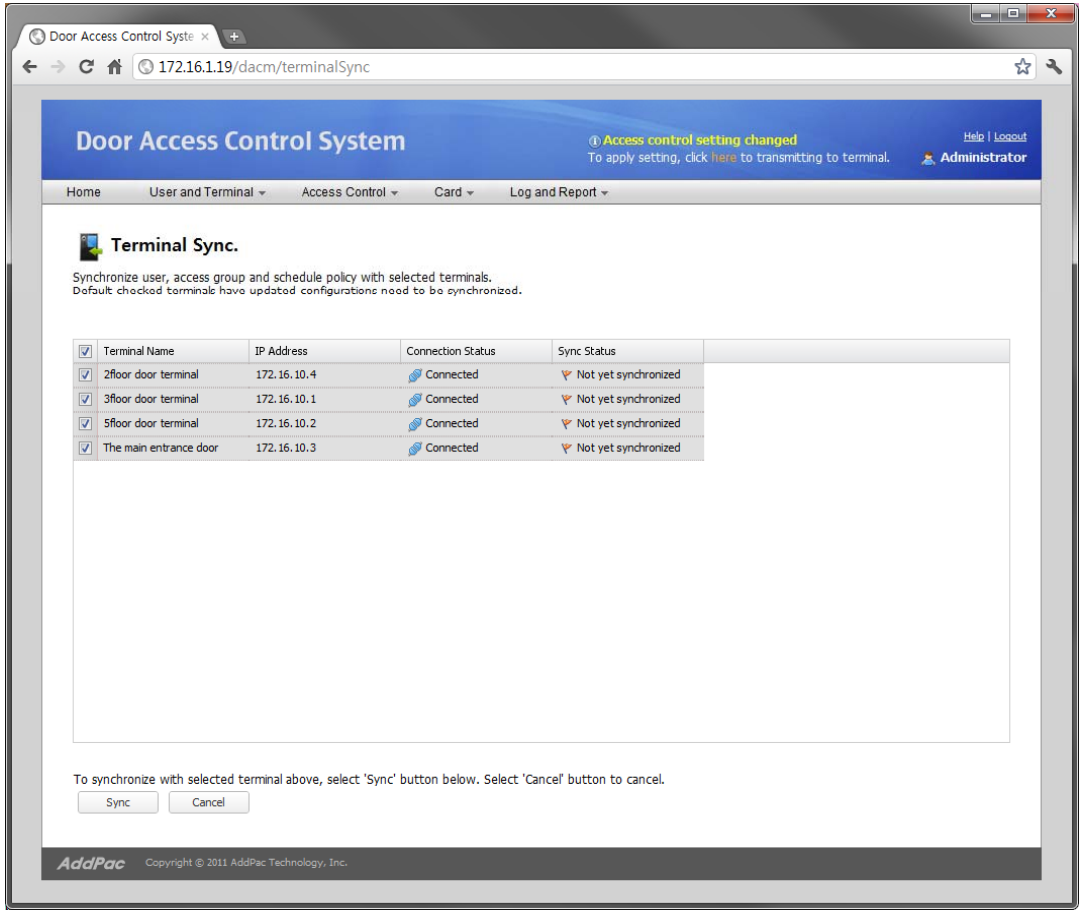
DACM (Door Access Control Manager)

Access Control Group Management



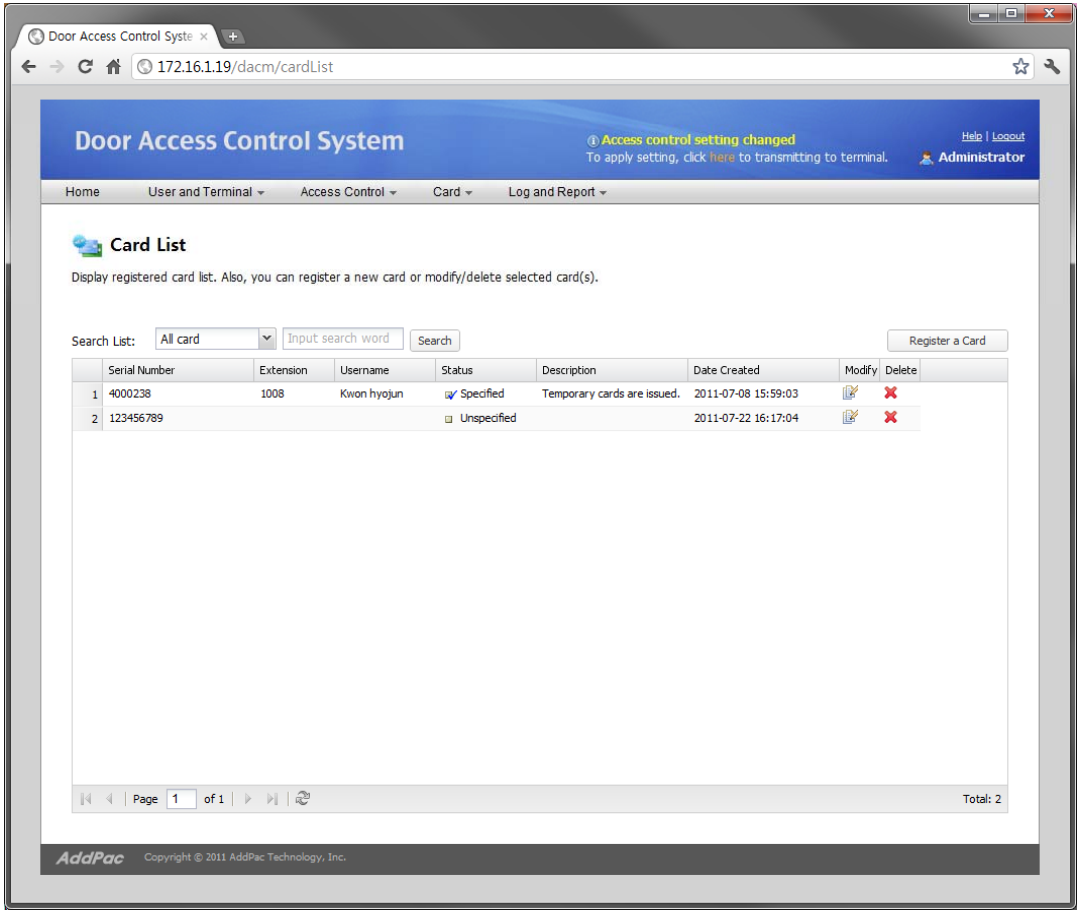
DACM (Door Access Control Manager)

Configuration Download to Terminal



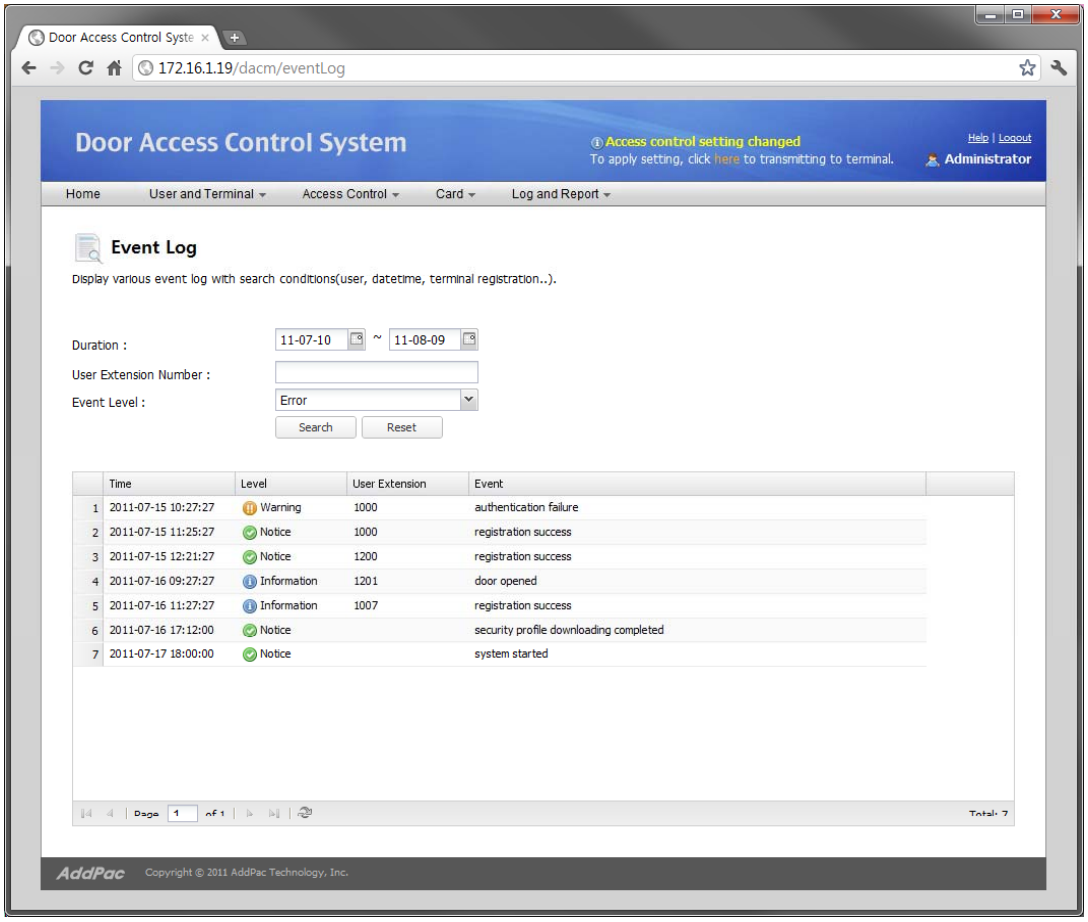
DACM (Door Access Control Manager)

RF Card Management



DACM (Door Access Control Manager)

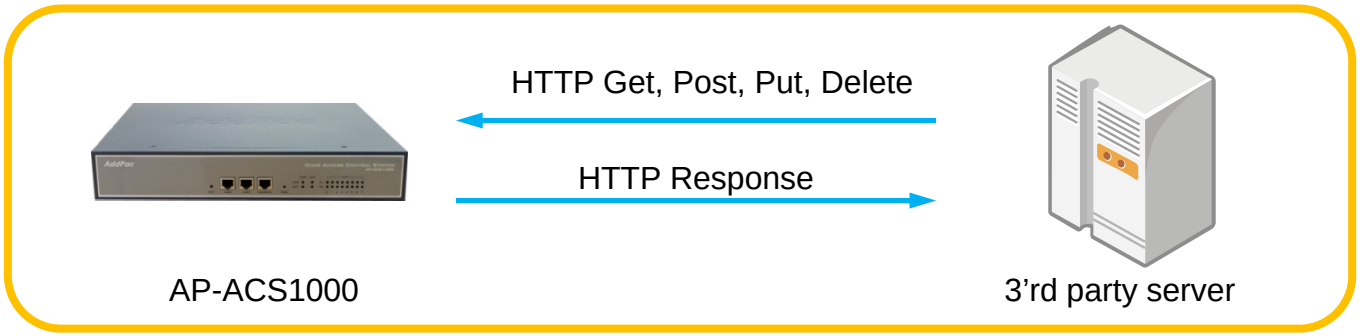
Access Log Management



AP-ACS1000 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) ,…

IP Video Door Phones

IP Video Door Phone Comparison Table

Model Service Features	AP-VAC200 	AP-VAC100 	AP-VAC50 	AP-VAC20 
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	N/A	N/A	N/A	N/A
Video Codec	H.264/MPEG4	H.264/MPEG4	H.264/MPEG4	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(Option)	Support	Support	Support	Support

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AP-VAC200
IP Video Door Phone

Main Features

AP-VAC200 IP Video Door Phone

- High Performance IP Video Door Phone Solution
- Video Camera, 3x4 Key, 3.5 Inch TFT Color LCD, Internal MIC & Speaker
- Fingerprint Recognition Support
- RF Card Support
- H.323/SIP Concurrent 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
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Advanced Voice QoS Mechanism

Hardware Specification

AP-VAC200 IP Video Door Phone

RISC CPU

High-end DSP

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- Audio and Voice Interface
  - Internal MIC
  - Internal Speaker
  - 3 x 4 key PAD
- Video Camera Interface
- 3.5 Inch TFT Color LCD Interface
- RF Card Interface
- Fingerprint Recognition Module Interface
- Network Interface
  - One(1) 10/100Mbps Fast Ethernet
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS422/RS485 Interface
- Power Supply
  - Power over Ethernet (Option)
  - External Power Supply

Hardware Specification

AP-VAC200 IP Video Door Phone

RISC CPU

High-end DSP

Front Side

Internal Speaker

Video Camera

LED Light

3.5 Inch LCD Display

3 x 4 Dial Key

RF Card Interface

Fingerprint Recognition Interface

Internal MIC Input

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AP-VAC100
IP Video Door Phone

Main Features

AP-VAC100 IP Video Door Phone

- High Performance IP Video Door Phone Solution
- Video Camera, 3x4 Key, TFT Color LCD, Internal MIC & Speaker
- H.323/SIP Concurrent VoIP Signaling Stack Embedded
- RF Card Interface
- 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
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Advanced Voice QoS Mechanism

Hardware Specification

AP-VAC100 IP Video Door Phone

RISC CPU

High-end DSP

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- Audio and Voice Interface
  - Internal MIC
  - Internal Speaker
  - 3 x 4 key PAD
- Video Camera Interface
- 3.5 Inch TFT Color LCD Interface
- RF Card Interface
- Network Interface
  - One(1) 10/100Mbps Fast Ethernet
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS422/RS485 Interface
- Power Supply
  - Power over Ethernet (Option)
  - External Power Supply

Hardware Specification

AP-VAC100 IP Video Door Phone

RISC CPU

High-end DSP

Front Side

Video Camera

Internal Speaker

LED Light

LCD Display

3 x 4 Dial Key

RF Card Interface

Internal MIC Input

AP-VAC50
IP Video Door Phone

Main Features

AP-VAC50 IP Video Door Phone

- High Performance IP Video Door Phone Solution
- Video Camera, 3x4 Key, TFT Color LCD, Internal MIC & Speaker
- H.323/SIP Concurrent VoIP Signaling Stack Embedded
- RF Card Interface
- 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
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Advanced Voice QoS Mechanism

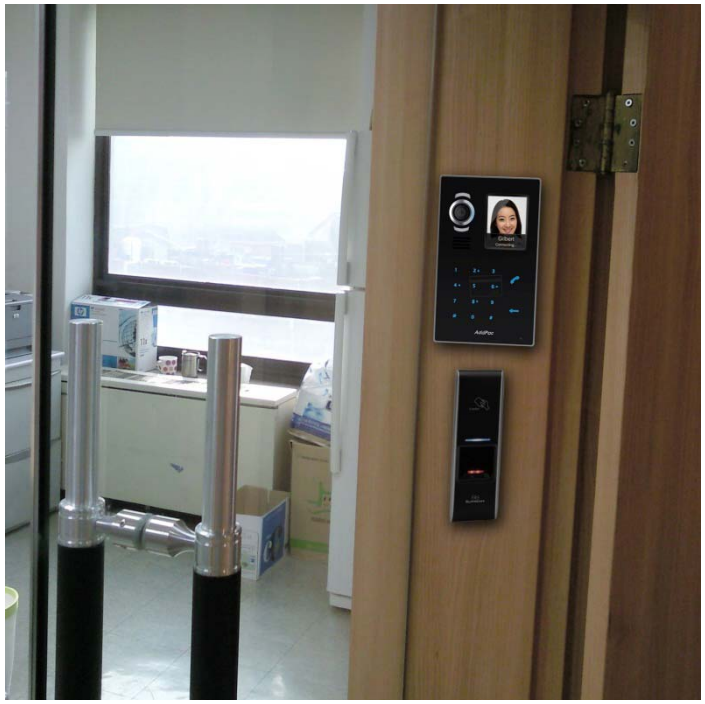
Hardware Specification

AP-VAC50 IP Video Door Phone

RISC CPU

High-end DSP

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- Audio and Voice Interface
  - Internal MIC
  - Internal Speaker
  - 3 x 4 key PAD
- Video Camera Interface
- 2 Inch TFT Color LCD Interface
- RF Card Interface
- Network Interface
  - One(1) 10/100Mbps Fast Ethernet
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS422/RS485 Interface
- Power Supply
  - Power over Ethernet (Option)
  - External Power Supply



Hardware Specification

AP-VAC50 IP Video Door Phone

RISC CPU

High-end DSP

Front Side

Video Camera

Internal Speaker

LCD Display

3 x 4 Dial Key

RF Card Interface

Internal MIC Input

AP-VAC20
IP Video Door Phone

Main Features

AP-VAC20 IP Video Door Phone

- High Performance IP Video Door Phone Solution
- Video Camera, 3x4 Key, LCD, Internal MIC & Speaker
- H.323/SIP Concurrent VoIP Signaling Stack Embedded
- RF Card Interface
- 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
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Advanced Voice QoS Mechanism

Hardware Specification

AP-VAC20 IP Video Door Phone

RISC CPU

High-end DSP

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- Audio and Voice Interface
  - Internal MIC
  - Internal Speaker
  - 3 x 4 key PAD
- Video Camera Interface
- RF Card Interface
- Graphic LCD Interface
- Network Interface
  - One(1) 10/100Mbps Fast Ethernet
- Alarm & Relay Out Interface (door open, etc)
- RS232/RS422/RS485 Interface
- Power Supply
  - Power over Ethernet (Option)
  - External Power Supply

Hardware Specification

AP-VAC20 IP Video Door Phone

RISC CPU

High-end DSP

Front Side

Video Camera

Internal Speaker

LCD Display

3 x 4 Dial Key

RF Card Interface

Internal MIC Input

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