

# AddPac IP Video Door Phone Solution

Access Control Server Redundancy Scheme for High Reliability IP Video Door Phone Service



**AddPac**

**AddPac Technology**

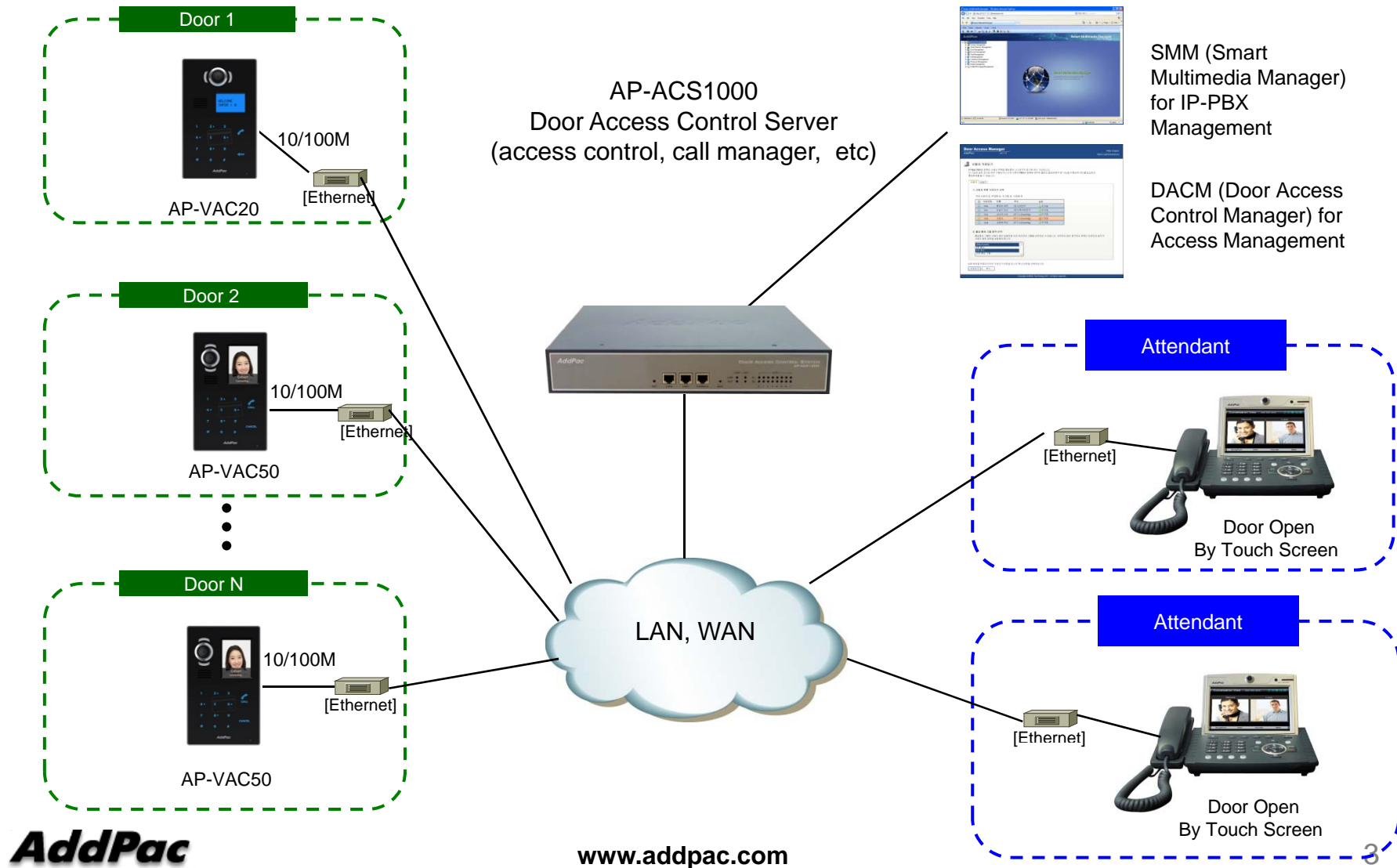
2014, Sales and Marketing

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- General IP Video Door Phone Service Network Diagram
- Access Control Server Redundancy Scheme
- Access Control Server Overview
  - AP-ACS1000 Door Access Control Server (Example)

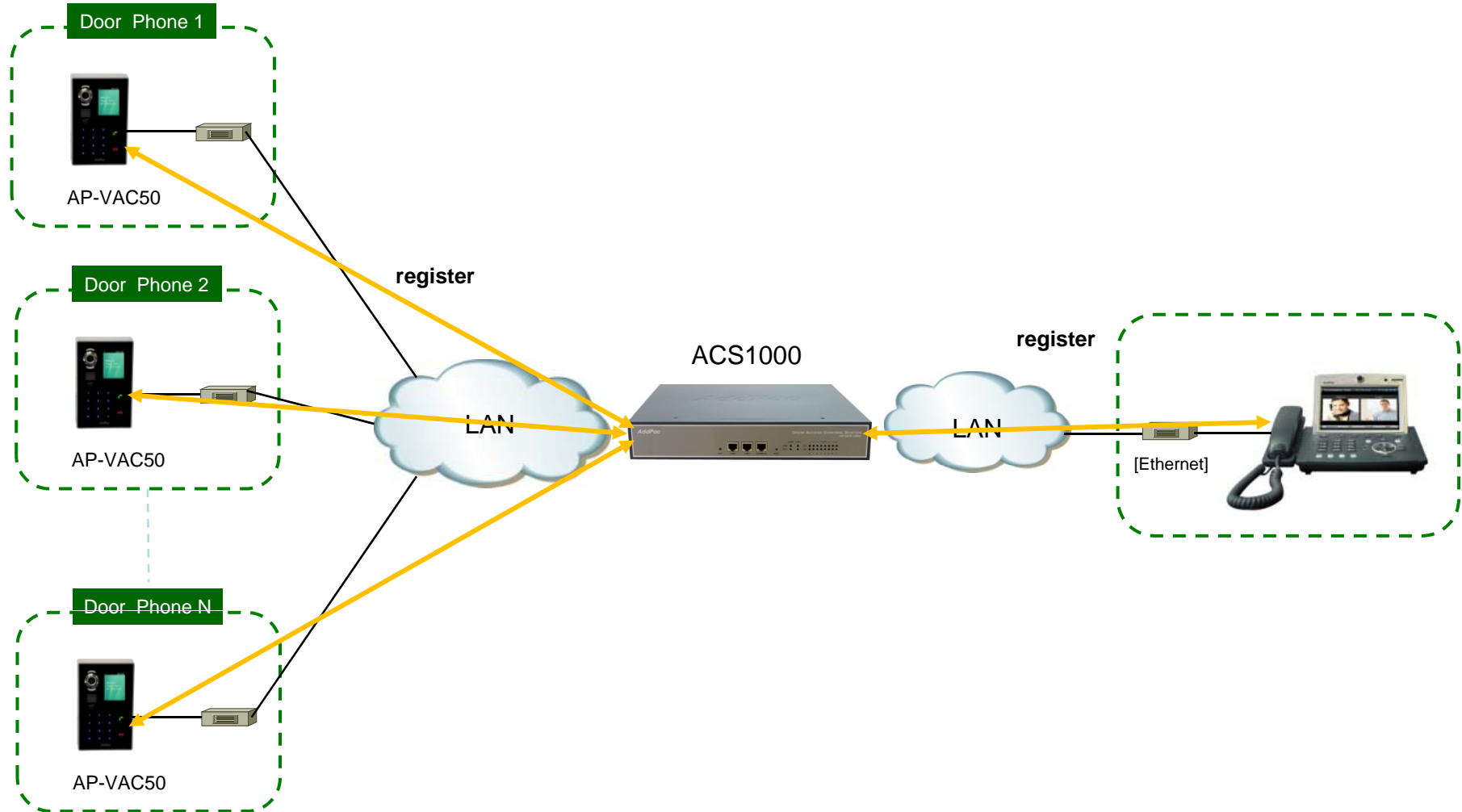
# General IP Video Door Phone Service Network Diagram





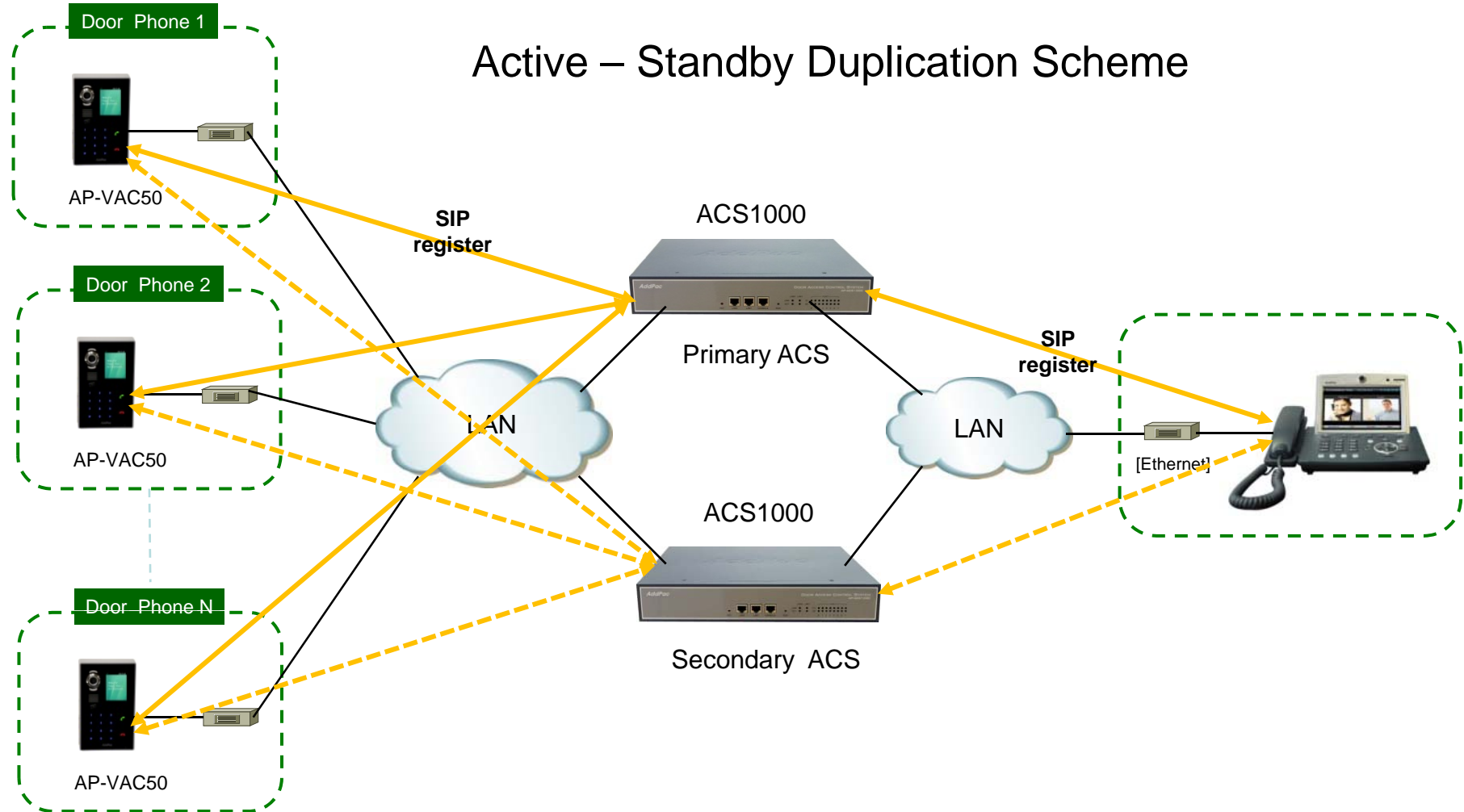
# Access Control Server Redundancy Scheme

# ACS Network Diagram



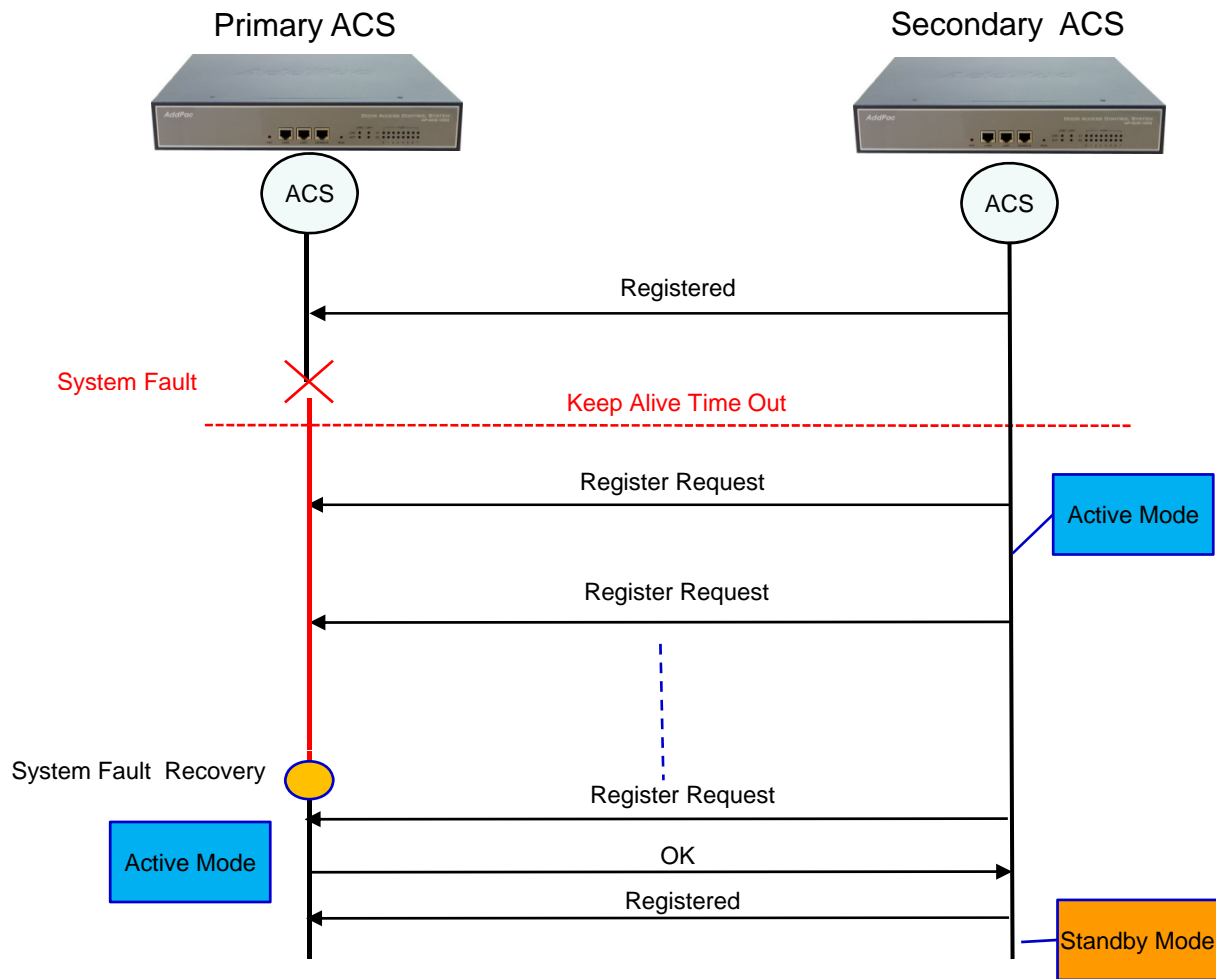
# ACS Redundancy Scheme Network Diagram


## - Call Manager Function



# ACS Redundancy Scheme Network Diagram

## - Door Access Control Function





# Access Control Server Overview

## Example : AP-ACS1000



# 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 Front Side



LAN1 (10/100Mbps)

LAN0(10/100Mbps)

Console Port

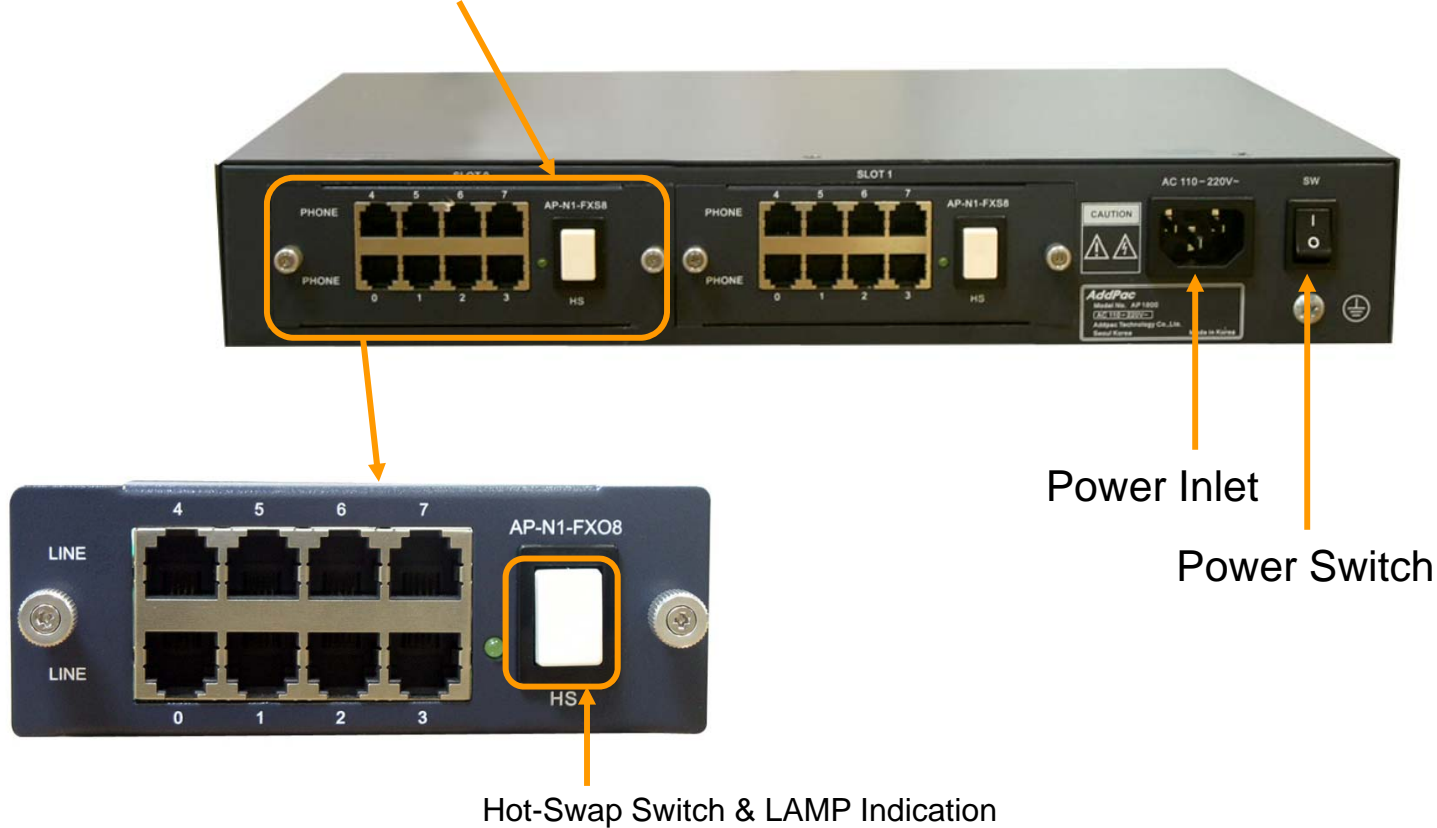
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# Hardware Specification

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

### AP-ACS1000 Back Side



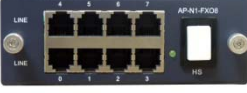

PSTN Interface Module



# Hardware Specification

AP-ACS1000 DACS (Door Access Control System)

## PSTN Interface Module

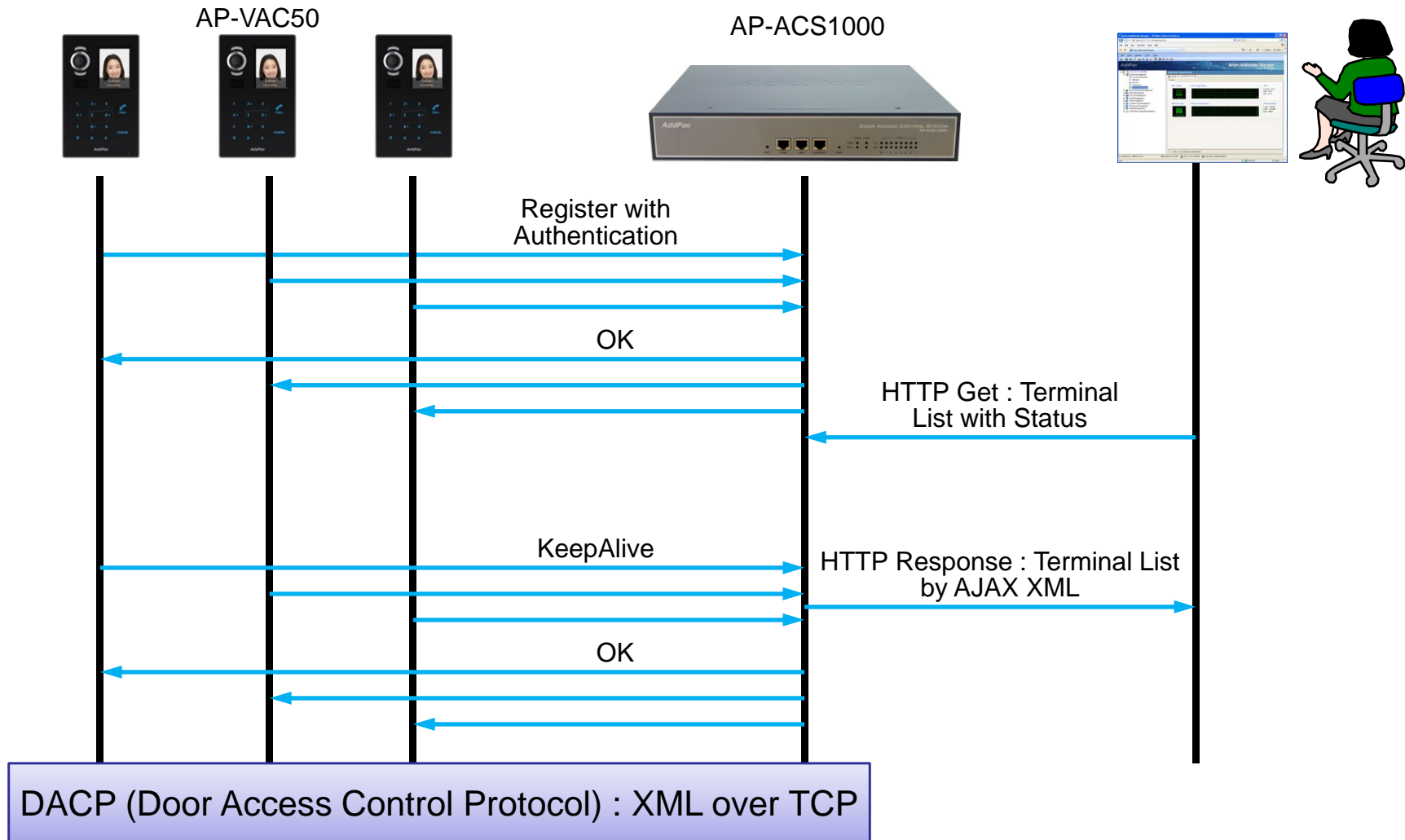
|                     |   |   |
|---------------------|---|---|
| <b>AP-N1-FXS8</b>   |  A black 8-port FXS voice processing module with RJ11 ports numbered 0-7 and a central switch labeled 'HS'.           | 8-Port FXS Voice Processing Module<br>(8 x RJ11)                |
| <b>AP-N1-FXO8</b>   |  A 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<br>(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<br>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<br>Module(1xRJ45)           |



# DACS System Message Flow

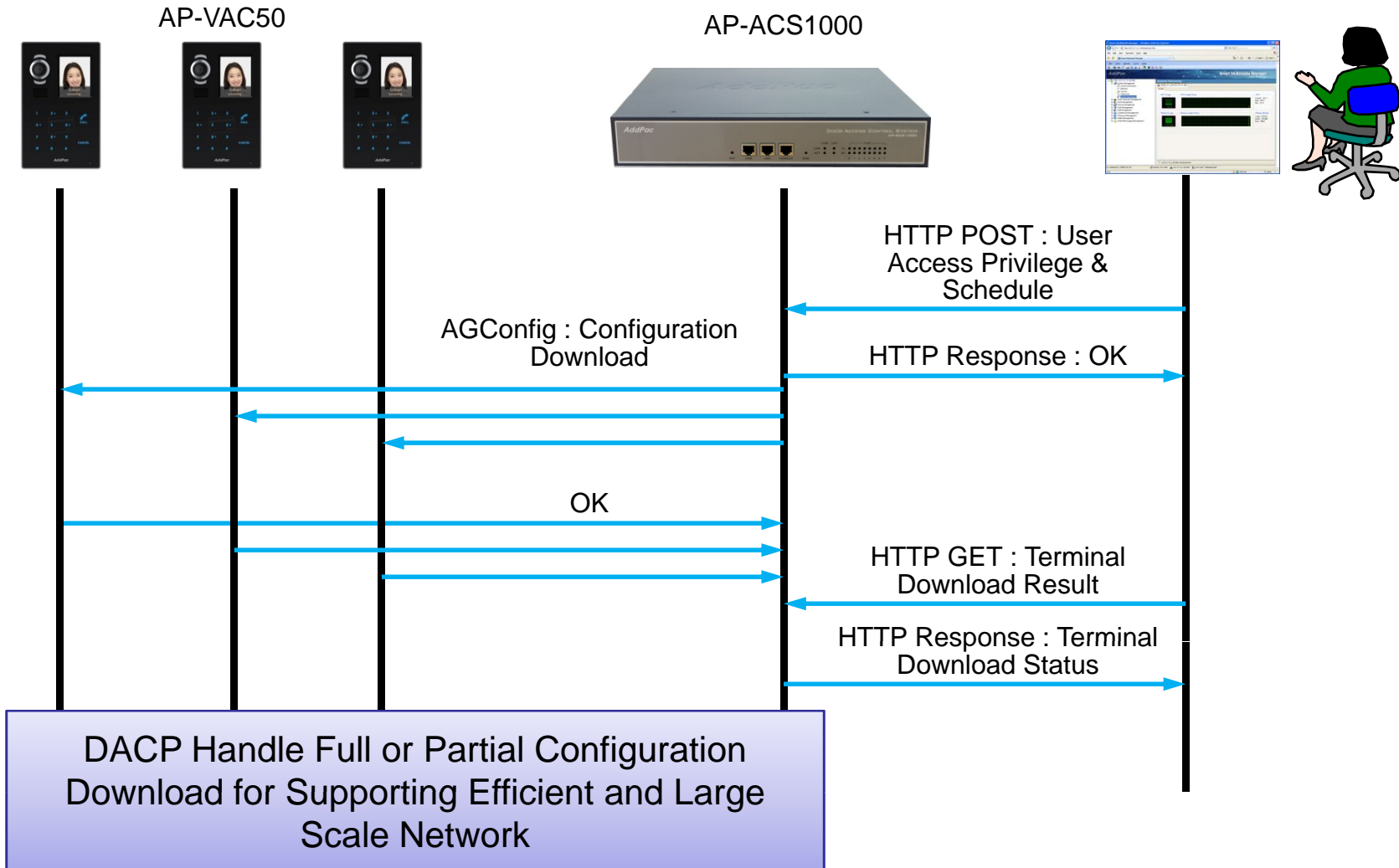
# DACS System Message Flow

## Registration and KeepAlive



# DACS System Message Flow

## Access Privilege and Schedule Download





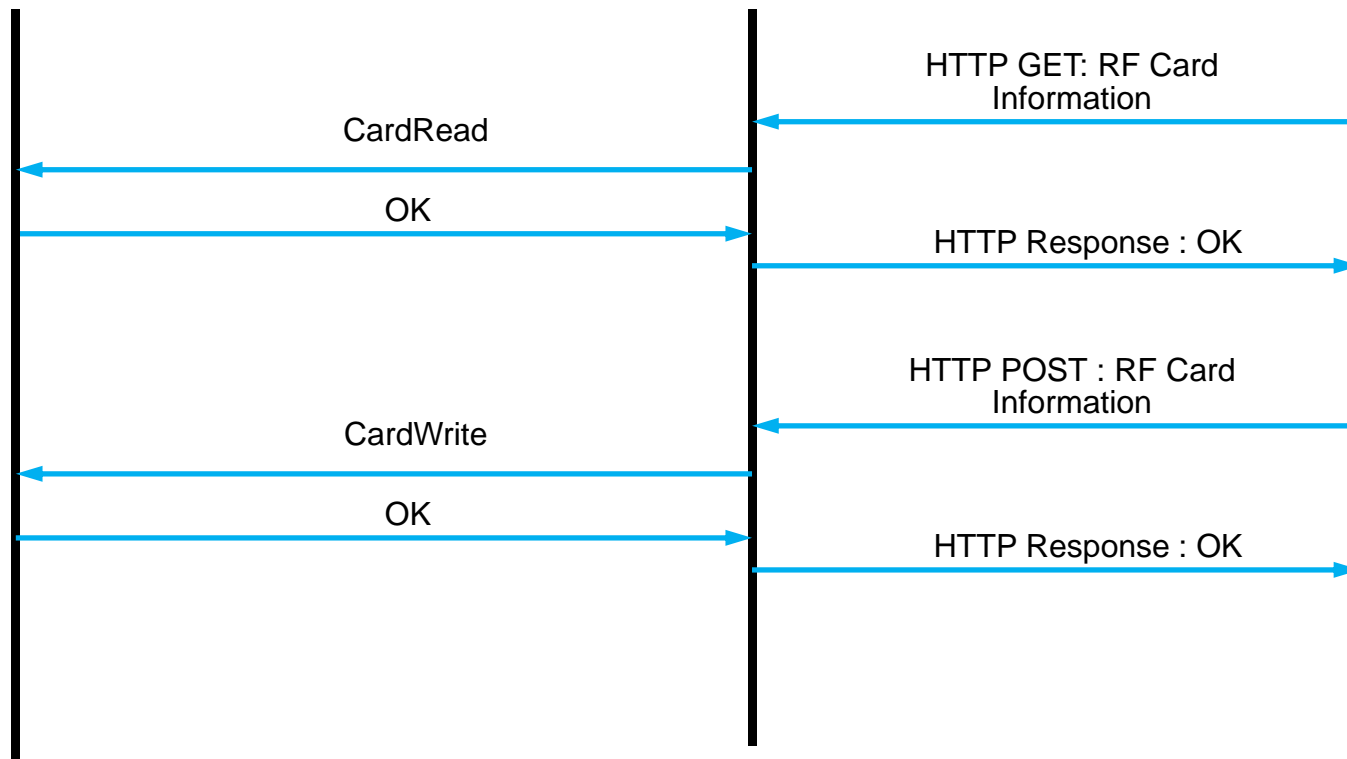
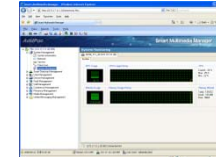
# DACS System Message Flow

## RF Card Read/Write and Registration

AP-VAC50

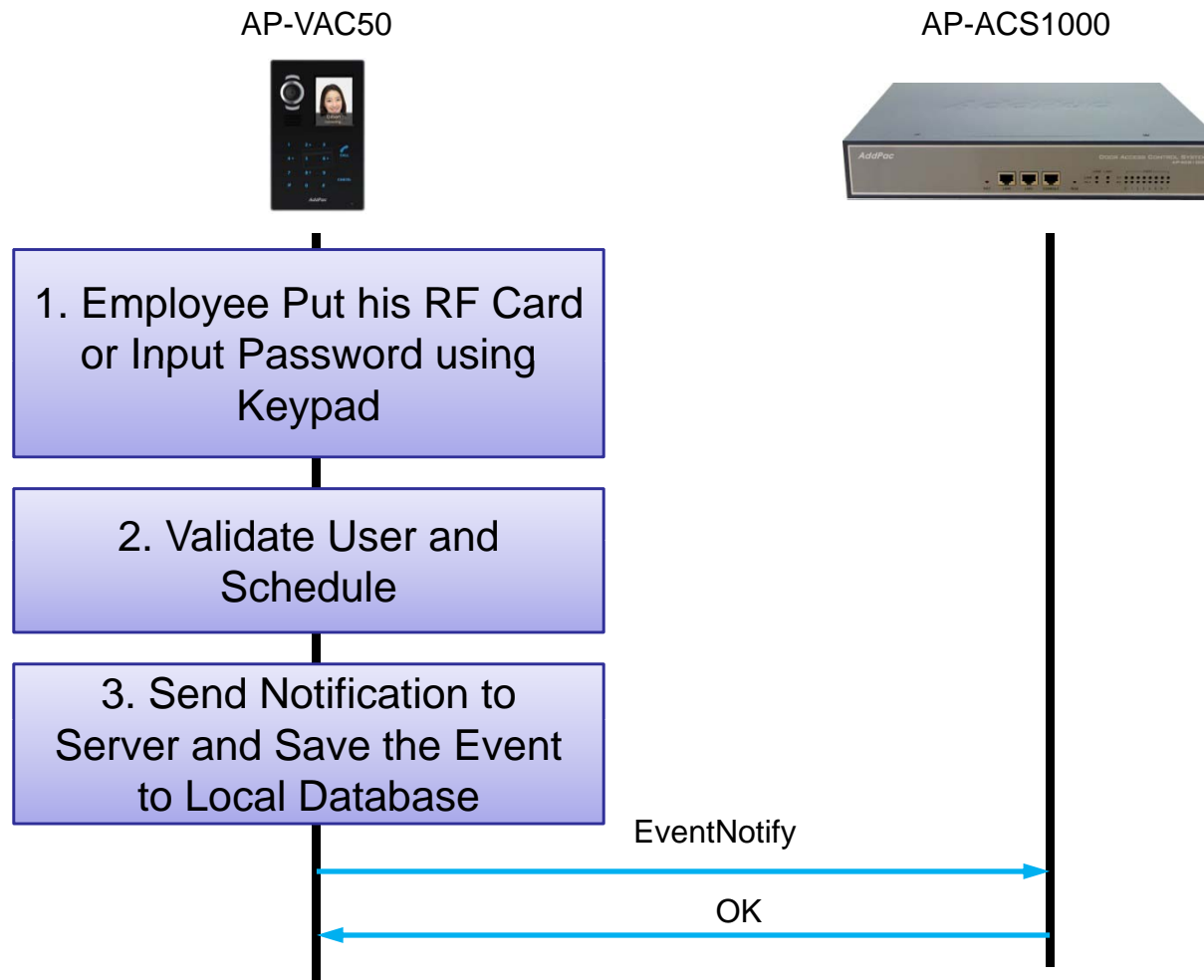


AP-ACS1000



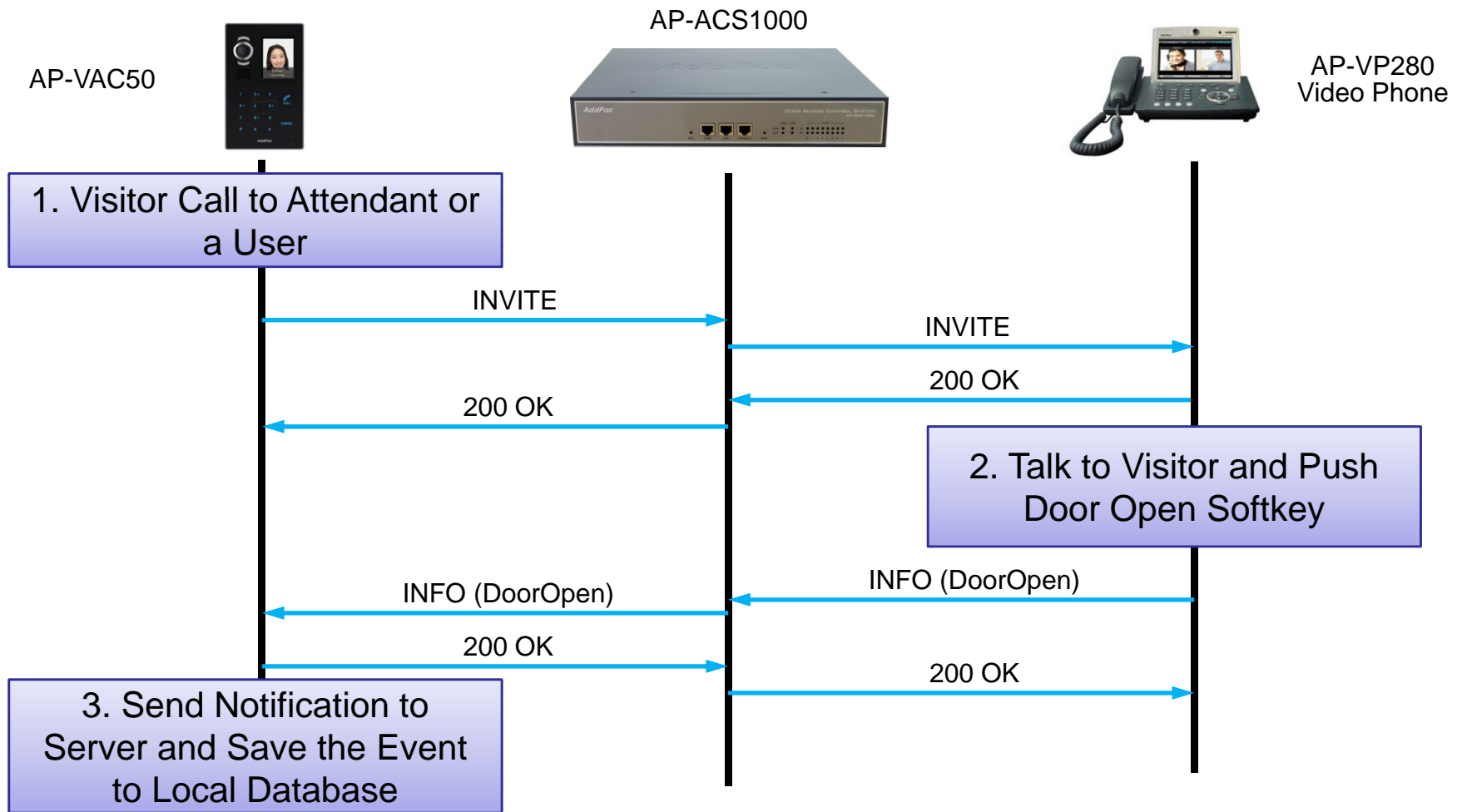
# DACS System Message Flow

## Door Open by RF Card or Password



# DACS System Message Flow

## Door Open by Other Terminal

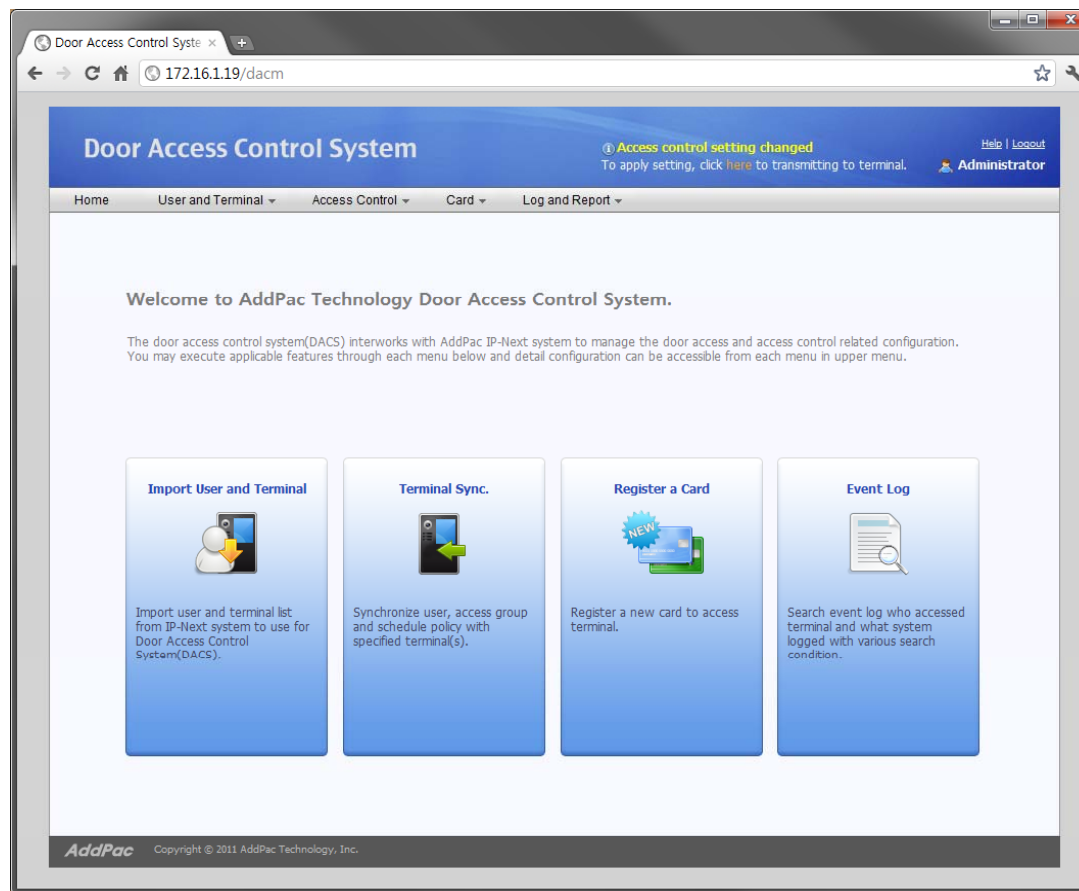




# Door Access Control Manager for AP-ACS1000

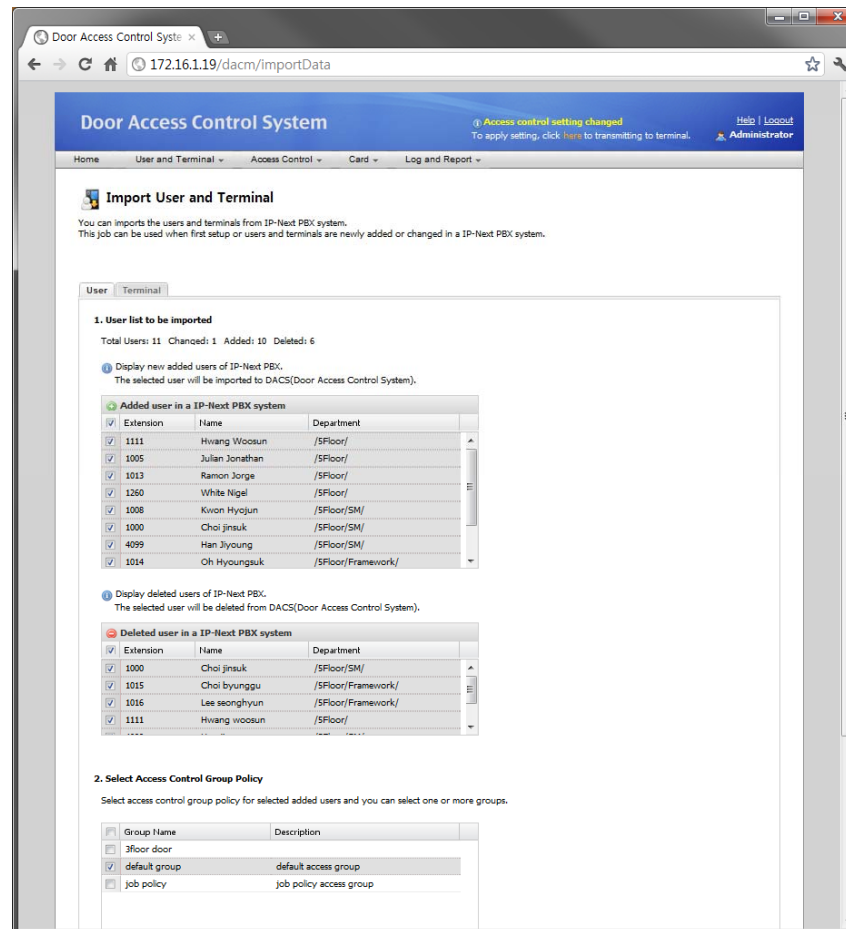
# DACM (Door Access Control Manager)

## Main Web Page



# DACM (Door Access Control Manager)

## Import User and Terminal



# DACM (Door Access Control Manager)

## User List

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 user is logged in as 'Administrator'. The main content area is titled 'User List' and includes a search bar with a dropdown menu set to 'All Users' and an 'Import User' 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 pagination control showing 'Page 1 of 1' and a 'Total: 5' indicator. The footer contains the 'AddPac' logo and 'Copyright © 2011 AddPac Technology, Inc.'

# DACM (Door Access Control Manager)

## Terminal List

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 List

Display the registered door phone lists imported from IP-Next PBX system.

Import Terminal

|   | Terminal Name          | Description        | Status    | Extension        | IP Address  | Model Name | Version  | Date Created        | Detail View |
|---|------------------------|--------------------|-----------|------------------|-------------|------------|----------|---------------------|-------------|
| 1 | 2floor door terminal   | 2Floor door ter... | Connected | 1006             | 172.16.10.4 | AP-VAC50   |          | 2011-07-29 17:08:50 |             |
| 2 | 3floor door terminal   | 3Floor door ter... | Connected | 1002             | 172.16.10.1 | AP-VAC20   | 8.50.001 | 2011-07-22 15:50:01 |             |
| 3 | 5floor door terminal   | 5Floor door ter... | Connected | 1005             | 172.16.10.2 | AP-VAC50   |          | 2011-07-29 17:08:50 |             |
| 4 | The main entrance d... | The main entran... | Connected | Required setting | 172.16.10.3 | AP-VAC100  |          | 2011-07-29 17:08:50 |             |

Page 1 of 1 Total: 4

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# DACM (Door Access Control Manager)

## Access Control Group Management

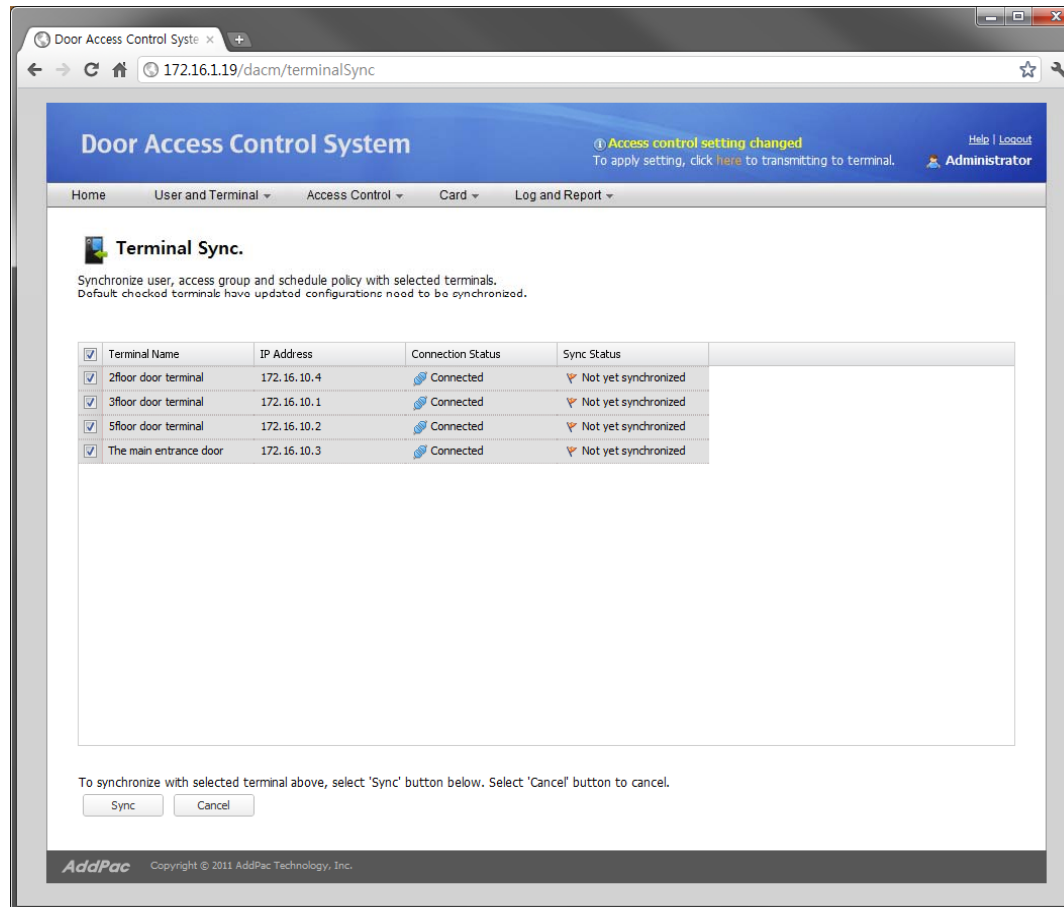
The screenshot displays the 'Door Access Control System' web interface. The browser address bar shows '172.16.1.19/dacm/accessGroupList'. The page title is 'Door Access Control System'. A notification banner at the top right states: 'Access control setting changed. To apply setting, click here to transmitting to terminal. Administrator'. The navigation menu includes: Home, User and Terminal, Access Control, Card, and Log and Report. The main content area is titled 'Access Control Group' and includes a description: 'You can define a new Access Control Group with one or more terminals, users and schedule policy. Also, you can adjust priority of access control group using up/down arrow (or mouse drag/drop)'. A table lists existing groups:

| Group Name    | Description             | Schedule Policy | Date Created        | Modify | Delete |
|---------------|-------------------------|-----------------|---------------------|--------|--------|
| 3floor door   |                         | All Allow       | 2011-06-28 11:37:13 |        |        |
| job policy    | job policy access group | working day     | 2011-07-04 17:06:47 |        |        |
| default group | default access group    | All Allow       | 2011-06-28 11:37:13 |        |        |

An 'Add a Access Control Group' button is located above the table. The footer of the interface shows 'AddPac Copyright © 2011 AddPac Technology, Inc.'

# 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

The screenshot displays the 'Door Access Control System' web interface. The browser address bar shows '172.16.1.19/dacm/cardList'. The page title is 'Door Access Control System'. A notification banner at the top right states 'Access control setting changed' with a link to 'To apply setting, click here to transmitting to terminal.' and a user profile for 'Administrator'. The navigation menu includes 'Home', 'User and Terminal', 'Access Control', 'Card', and 'Log and Report'. The main content area is titled 'Card List' and includes a search filter set to 'All card', a search input field, and a 'Register a Card' button. Below the search is a table with the following data:

| Serial Number | Extension | Username | Status      | Description   | Date Created                | Modify              | Delete |  |
|---------------|-----------|----------|-------------|---------------|-----------------------------|---------------------|--------|--|
| 1             | 4000238   | 1008     | Kwon hyojun | ✓ Specified   | Temporary cards are issued. | 2011-07-08 15:59:03 |        |  |
| 2             | 123456789 |          |             | □ Unspecified |                             | 2011-07-22 16:17:04 |        |  |

At the bottom of the table, it shows 'Page 1 of 1' and 'Total: 2'. The footer contains the 'AddPac' logo and 'Copyright © 2011 AddPac Technology, Inc.'

# DACM (Door Access Control Manager)

## Access Log Management

The screenshot shows a web browser window displaying the 'Door Access Control System' interface. The page title is 'Door Access Control System' and the URL is '172.16.1.19/dacm/eventLog'. The user is logged in as 'Administrator'. A notification banner at the top right states 'Access control setting changed' with a link to 'Apply setting, click here to transmitting to terminal.' The main content area is titled 'Event Log' and includes a search filter section with fields for 'Duration' (11-07-10 to 11-08-09), 'User Extension Number', and 'Event Level' (set to 'Error'). Below the search filters is a table of event logs.

|   | 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                         |

The interface also includes a pagination bar at the bottom of the table showing 'Page 1 of 1' and a 'Total: 7' count.



# Thank you!

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