Door Access Control System

AP-ACS1000

AP-ACS1000 DACS (Door Access Control System)

AP-ACS1000 next generation IP based video door phone control system interworks with PSTN interface and various AddPac video terminal devices such as AP-VAC50/20 video door phone and video phones to support call control service, IP-PBX function, and video door phone management service. It is designed on the basis of high performance embedded RISC and appropriate for small/medium enterprise. It interworks with various AddPac video products to support an efficient video door access control.

AddPac IP video door phone is a device to open and close the door after verifying the identity of visitor. It is embedded with alarm, relay output port, and RS485 interface function to control the door remotely by interworking with automatic door. Also, it offers password, RF card, fingerprint verification technology for easier access of employees. AddPac AP-ACS1000 DACS supports both video door phone management/application service and SIP based call managing function. Video door phone management function provides user/ group management, setup management, RF card registration and management, fingerprint verification, registration and management, and access log function and allow to extend the application service such as attendance/absence.

AP-ACS1000 call manager function offers to connect several video door phones and administrator video phone using SIP standard call processing technology. Also, it supports to control the video door phone in entrance through analog phone by interworking to exiting legacy PBX.

The front panel of AP-ACS1000 supports LED displays of device status and has two(2) 10/100Mbps Fast Ethernet Ports, the RS-232C console port for Command Line Interface (CLI), Power Inlet and Power ON/OFF Switch. Its rear panel supports various VoIP interfaces such as FXS, FXO, Digital E1/T1 depending on module options. IPNext180 can support maximum 16 port VoIP Interface Ports (Two(2) slots x 8Port VoIP Module). AP-ACS1000 DACS supports media gateway features as well as IP-PBX features.

The call scenarios supported by AP-ACS1000 provide SIP-based basic calls, color ring services, blind transfer, call pickup, group call pickup, consult calls, switching calls, consult transfer, call waiting, call waiting notification, call park, call pickup remote, and hunt group. This product is designed to provide application services that require much memory such as voice mails using internal memory. Also, RTP Proxy Service for private IP address, intelligent IVR service, Media Service such as music on hold, announcement, music ring back tone, Unified Messaging Service (voice mail) are additional service features beside basic SIP call manger service.

Product Highlights

- New 'All-In-One' Door Access Control system Concept with Video, Voice, Audio, Data Integrated for Complete Multimedia IP Telephony System

- Door Access Control Function and Call Manager Function both support

- Door Access Control Function
  - User/Group Management
  - RF Card Management
  - Fingerprint Verification Management
  - Access Log Management

- VoIP Interface for PTSN service : Maximum 16 Port (2 VoIP Module Slots)
  - 8 Port FXS Module
  - 8 Port FXO Module
  - 4 Port FXS & 4 Port FXO Module
  - Digital E1/T1 Module

- Upgradeable System Architecture based on Programmable RISC & DSP

- Two(2) 10/100Mbps Fast Ethernet Interface

- RS-232C Console Interface(RJ45) for CLI (Command Line Interface)

- Internal : SIP signaling
  Outbound Call : SIP and H.323 Signaling

- Various IP Telephony Call Scenario (Call Transfer, Call Park , Call Pickup etc)

- Unified Messaging Service (Voice Mail, etc)

- User Presence Service

- Media Service (RingBack, Music on Hold, Announcement)

- Remote Firmware Upgrade Through FTP & TFTP Protocol

- Web based Smart Multimedia Manager for Call Manager Function

- Smart Web Manager for Door Access Control

AP-ACS1000 DACS Application
- IP based Video Door Access Control System
- IP Telephony System Integration for Small Office, Medium Size Enterprise Network

Hardware Specification
- RISC PowerPC Microprocessor
- Memory
  - Boot memory   512Kbyte Flash Memory
  - Main memory   128Mbyte SDRAM
  - Flash Memory   2Gbyte

- Ethernet Interface
  - 10/100Mbps   2-Port Ethernet (RJ-45)

- Console Port
  - RS-232C   1-Port Console (RJ-45)

- PSTN VoIP Interface : Maximum 16Port
  - AP-N1-FXS8 : 8-Port FXS (8 x RJ11)
  - AP-N1-FXO8 : 8-Port FXO (8 x RJ11)
  - AP-N1-FXS4O4 : 4-Port FXS & 4-Port FXO (8 x RJ11)
  - AP-N1-E1/T1 : 1-Port Digital E1/T1 (1 x RJ45)

- Voice MCU Module : Option
  - Internal H/W Voice MCU Module : G.711, G.729. G.723.1 (4 Party, 2 Session, Max 8 Channel)

Power & Operational environment
- Power Requirement : VAC 110~220V, 50/60Hz, , 40Watt
- Operation Temperature   0℃~+50℃
- Storage Temperature   -40℃~+85℃
- Humidity   5%~95%

Dimensions
- Dimension (H x W x D) : 56mm x 340mm x 267mm –19" Rack Mountable Chassis
- Weight : 2.5 Kg

Door Access Control Service
- AddPac IP based Video Door Phone Control (AP-VAC20, AP-VAC50, AP-VAC200, etc)
- Multiple Video Door Phone Control per system
- User/Group Management
- Password Management
- RF Card Management
- Fingerprint Verification Management*
- Access Log Management
- Smart Web Manager for Door Access Control

Voice over IP Service
- H.323, SIP VoIP Signaling Protocol
- VAD, DTMF, CNG, G.168
- Voice Codec : G.723.1, G.729, G.726. G.711,
- Various VoIP Features
- Interoperable with Diverse VoIP Gateways
- Interoperable with Diverse VoIP Gatekeeper, SIP Proxy Server

IP Telephony Service
- Internal Call : SIP signaling
- Outbound Call : SIP and H.323 Signaling
- Speed Dial, Phone Book
- Basic Call Scenario, Coloring Service Music on Hold, Blind Transfer, Call Pickup
- Consult Call, Switching Call, Consult Transfer
- Call Waiting, Call Waiting Notify
- Call Park, Call Pickup Remote, Hunt Group
- Web based Smart Multimedia Manager Program
- MS-Window based Smart Messenger Support

User Presence Service
- Real-time User Presence Service
- Interworking with Smart Messenger and Presence IP Terminal

Media Service
- Ring Back Tone, Announcement, Music on Hold
- Scheduled based Media Service

Unified Messaging Service
- IVR Scenario for Voice Mail Recording and Retrieval
- Voice Mail Notification via E-Mail
- Quota Management for each user

Network Management
- Standard SNMP Agent ((MIB v2) Support
- Console, Telnet, Web Based Management
- Remote Download via FTP/TFTP

Traffic QoS Control
- Traffic QoS Control Feature for Services
- Voice, Data, Video Prioritizing Control
- Various QoS Algorithm Support

Security Feature
- IP Packet Filtering / Access List
- Access Control and Data Protections
- Enable/Disable for Specific Protocols
- Multi-level User Account Management
- Auto-disconnect for Telnet/Console Sessions
- PPP User Authentication Support
  - Password Authentication Protocol (PAP)
  - Challenge Handshake Authentication Protocol (CHAP)

Other Feature
- DHCP Server & Relay Functions
- DDNS , NTP (Network Time Protocol)

AP-ACS1000 Network Diagram
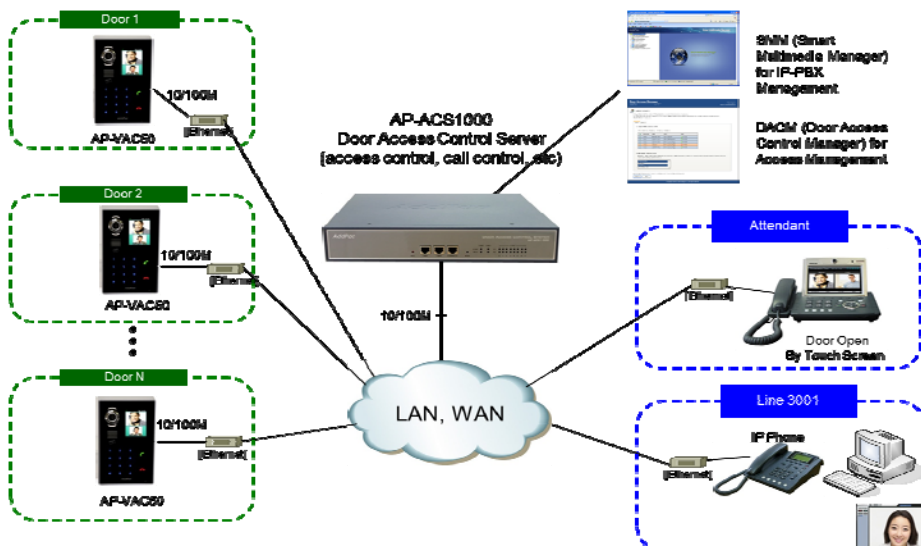
Ordering Information
- AP-ACS1000 DACS
  - Two(2) Fast Ethernet Port
  - One(1) RS-232C Console Port
  - RISC CPU
  - 2GB Flash, 128 MB SDRAM
  - Two(2) VoIP Module Slots
  - APOS v8.xx Manual
- CAB-LAN   Ethernet Cable
- CAB-CON   RS-232C Console Cable
- PSTN VOIP Interface Module Option :
- AP-N1-FXS8
- AP-N1-FXO8
- AP-N1-FXS4O4
- AP-N1-E1/T1

AddPac Technology Co., Ltd.
2,3,5F, Kyung-An Bldg., 769-12, Yeoksam-Dong Kangnam-Gu, Seoul, 135-080, Korea
Tel: (02)568-3848, Fax: (02)568-3847, e-mail: sales@addpac.com

www.addpac.com