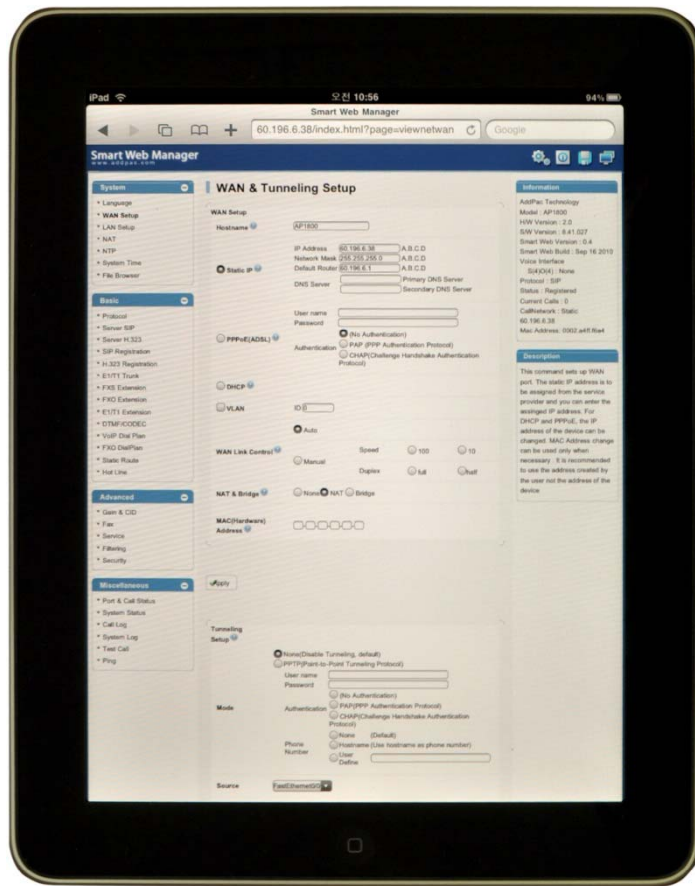


Smart Web Manager for VoIP Gateway Series



AddPac

AddPac Technology

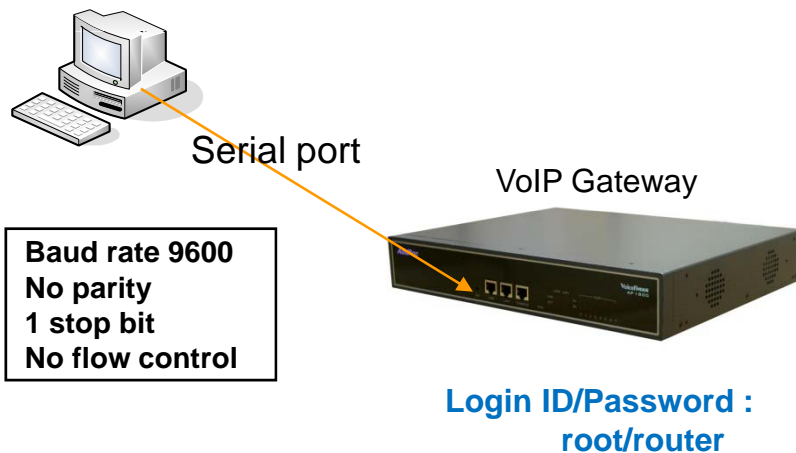
2010, Sales and Marketing

Contents

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Web Connection

IP Address Configuration via RS232C Console Port



1. Connect to VoIP Gateway via console port to enter IP address in order to set Interface 0/0
2. Input IP address of interface 0/0 using below command
3. Connect to the IP address via web after saving

```
Router> enable
Router# configure terminal
Router(config)# interface FastEthernet 0/0
Router(config-if)# ip address <IP Address> <Subnet Mask>
Router(config-if)# exit
Router(config)# ip route 0.0.0.0 0.0.0.0 <Default Gateway>
Router(config)# write
Proceed with write? [confirm]y
```

=> Enter the enable mode
=> Enter the configuration mode
=> Ex) ip address 172.17.109.1 255.255.0.0
=> Ex) ip route 0.0.0.0 0.0.0.0 172.17.1.1
=> saving

Web Connection

Web Connection via LAN 1 Port



1. It is the way to connect to VoIP Gateway via LAN 1 port
2. The factory default of LAN 1 port
 - IP Address : 192.168.10.1
 - Subnet mask : 255.255.255.0
3. After set PC with same IP address subnet, connect to VoIP Gateway
 - Connect PC to VoIP Gateway using Cross UTP-Cable. You may use Ethernet switch with normal UTP-cable
 - Enter IP address 192.168.10.1 on your web browser

WEB Connection

Connect to VoIP Gateway

Connect to 192.168.10.1

AddPac

User name:

Password:

Remember my password

OK Cancel

Please enter the below log-in information to access Smart Web Manager

ID : root

Password : router

| System Information | |
|------------------------|-----------------------------|
| HW Version | 2.0 |
| SW Version | 8.41.086 |
| MAC Address | 0002.44ff.85a4 |
| VoIP Protocol | SIP |
| Voice Interface Module | S4(O4): None |
| Registration Status | Unregistered |
| Supported Codec List | |
| Network Information | Static 0.0.0.0 |
| WAN LINK Status | 100Mbps FULL Duplex Link UP |
| LAN LINK Status | 100Mbps FULL Duplex Link UP |
| Current Time | Thu Sep 16 14:24:00 2010 |
| System Startup Time | Thu Sep 16 14:23:19 2010 |
| System Running Time | 0 days 00:01:31 |
| Total Calls | 0 |

Information

AddPac Technology
Model: AP1800
HW Version: 2.0
SW Version: 8.41.086
Smart Web Version: 0.4
Smart Web Build: Sep 15 2010
Voice Interface: S4(O4): None
Protocol: SIP
Status: Unregistered
Current Calls: 0
CallNetwork: Static 0.0.0.0
Mac Address: 0002.44ff.85a4

Main Page Layout

Main Menu
For easy system setup, provide the various menu and category

Tool Bar
Provide frequently used tools like as System Update, Configuration Backup, Initialization, Restart, Telnet

Information
Display the current system version and status summary

Description
Display the help message if you move mouse over main menu

Workspace
Workspace for detailed action

System Information

| | |
|------------------------|-----------------------------|
| HW Version | 2.0 |
| SW Version | 8.41.086 |
| MAC Address | 0002.a4ff.f6a4 |
| VoIP Protocol | SIP |
| Voice Interface Module | S(4)O(4): None |
| Registration Status | Unregistered |
| Supported Codec List | |
| Network Information | Static 0.0.0.0 |
| WAN LINK Status | 100Mbps FULL Duplex Link UP |
| LAN LINK Status | 100Mbps FULL Duplex Link UP |
| Current Time | Thu Sep 16 14:24:50 2010 |
| System Startup Time | Thu Sep 16 14:23:19 2010 |
| System Running Time | 0 days 00:01:31 |
| Total Calls | 0 |

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4): None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address: 0002.a4ff.f6a4

Description

System - Language

Smart Web Manager
www.addpac.com

System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC
- VoIP Dial Plan

Configure Language

한국어

English

Portugal

Apply

Configure Language
English, Korea, Portual

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Choose the basic language to be applied. English is set at default.

System – WAN Setup

- Host Name**
Create a representative name for the site to be installed
- Static IP**
This is static IP mode. Specify the addressed IP from the service provider
- PPPoE**
This is ADSL mode. This mode is used for addressing IP though authentication from the modem.
At this time, the modem must be configured in a way that the device can be authenticated.
- DHCP**
This is dynamic IP mode which is set at default. The IP can be addressed from the external DHCP server.
- VLAN**
Configure VLAN mode and ID.
- WAN Link**
Controls and recognizes WAN port
Specify the connection speed of WAN port. connection automatically.
- MAC**
Change MAC address of WAN interface. Without address entry, use the basic MAC Address.

WAN & Tunneling Setup

WAN Setup

Hostname: Router

IP Address: A.B.C.D
Network Mask: A.B.C.D
Default Router: A.B.C.D
DNS Server: Primary DNS Server / Secondary DNS Server

Static IP

PPPoE(ADSL) Authentication: (No Authentication) / PAP / CHAP

DHCP

VLAN ID: 0

Auto WAN Link Control

Speed: 100 / 10
Duplex: full / half

NAT & Bridge: None / NAT / Bridge

MAC(Hardware) Address: [][][][][][]

Apply

Information

AddPac Technology
Model: AP1800
H/W Version: 2.0
S/W Version: 8.41.086
Smart Web Version: 0.4
Smart Web Build: Sep 15 2010
Voice Interface
S(4)O(4): None
Protocol: SIP
Status: Unregistered
Current Calls: 0
CallNetwork: Static 0.0.0.0
Mac Address: 0002.a4ff.f6a4

Description

This command sets up WAN port. The static IP address is to be assigned from the service provider and you can enter the assigned IP address. For DHCP and PPPoE, the IP address of the device can be changed. MAC Address change can be used only when necessary. It is recommended to use the address created by the user not the address of the device

NAT & Bridge
Configure NAT or Bridge mode

System – LAN Setup

The screenshot shows the 'LAN Setup' page in the Smart Web Manager. The interface includes a left sidebar with navigation menus, a main configuration area, and a right sidebar with system information and a description. Three yellow callout boxes on the left provide context for the configuration options:

- None**: It is configured by default IP.
- IP Share**: This is sharing of LAN0.
- Static**: This is configured directly by user.

The main configuration area is titled 'LAN Setup' and contains three radio button options:

- None**: Selected by default. A red dashed box highlights this option.
- IP Share (IP Connect)**: A red dashed box highlights this option and its associated fields: IP Address (192.168.10.1), Network Mask (255.255.255.0), and A.B.C.D default values.
- Static**: A red dashed box highlights this option and its associated fields: Enable DHCP Server (checkbox), Default Lease time (0), Address Range, and DNS Server.

An 'Apply' button is located at the bottom of the configuration area. The right sidebar contains an 'Information' section with system details and a 'Description' section explaining the LAN port setup.

System - NAT

Smart Web Manager
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System

- Language
- WAN Setup
- LAN Setup
- NAT**
- NTP
- System Time
- File Browser

Basic

- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC
- VoIP Dial Plan

NAT Static Table

| IP Protocol | Global Port | Local Address | Local Port | Selection |
|-------------|----------------------|----------------------|----------------------|------------------------------------|
| tcp | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="button" value="Add"/> |

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010

Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

When many PCs are connected to LAN, create a table for delivering TCP/UDP port to PC.

NAT Static Table
When many PCs are connected to LAN, create a table for delivering TCP/UDP port to PC

System - NTP

Smart Web Manager
www.addpac.com

System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP**
- System Time
- File Browser

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension

NTP

Enable Disable

Primary Server (Domain Name or IP Address)

Secondary Server (Domain Name or IP Address)

Interval (1-72 hours)

Timezone Name Offset : (-23~23 hours) : (0~60 minute)

Apply

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Setup NTP Server

NTP
Configure NTP server (s) & Options

System – System Time

The screenshot shows the Smart Web Manager interface for configuring system time. The main content area is titled "System Time" and contains the following elements:

- Current Time:** Thu Sep 16 14:29:54 2010
- Set System Time:** A form with a Year input field, and dropdown menus for Month (1), Day (1), Hour (1), Min (1), and Sec (1).
- Apply:** A button with a green checkmark icon.
- System Time Configure Local Time:** A yellow highlighted box with a black border, containing the text "System Time Configure Local Time". A line points from this box to the "Set System Time" form.

The left sidebar shows a navigation menu with "System Time" selected under the "System" category. The right sidebar contains "Information" and "Description" sections.

Information:

- AddPac Technology
- Model : AP1800
- H/W Version : 2.0
- S/W Version : 8.41.086
- Smart Web Version : 0.4
- Smart Web Build : Sep 15 2010
- Voice Interface
- S(4)O(4) : None
- Protocol : SIP
- Status : Unregistered
- Current Calls : 0
- CallNetwork : Static 0.0.0.0
- Mac Address : 0002.a4ff.f6a4

Description:

System – File Browser

Smart Web Manager
www.addpac.com

System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser**

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC
- VoIP Dial Plan

File Browser

Index of Root/

| Name | Size | Type | Last Modified |
|-------------------------|------|-----------|----------------------|
| secondary/ | | Directory | 2010-Sep-16 14:30:09 |
| tmp/ | | Directory | 2007-Oct-19 00:56:02 |
| ap1800_g2_v8_41_086.bin | 3.3M | BIN | 2010-Sep-16 23:13:10 |
| apos.cfg | 0.3K | CFG | 2010-Sep-16 14:23:20 |
| booter.cfg | 0.4K | CFG | 2009-Jul-14 10:26:23 |
| booter.cfg~ | 0.2K | | 2009-Jul-14 10:26:23 |

찾아보기... Upload

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address: 0002.a4ff.f6a4

Description

Back up / Restore the setting of the system software and device

File Browser

Download and Upload Gateway's firmware or configuration file.

Basic - Protocol

Smart Web Manager
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System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC

Protocol

SIP(Session Initiation Protocol)

H.323(ITU H.323 Protocol)

Apply

Configure VoIP signaling protocol SIP , H.323

Information

AddPac Technology
Model : AP1800
H/W Version : 2.0
S/W Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Configure the settings of the protocol to be used for VoIP communication

Basic – SIP Server

Smart Web Manager
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System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

Basic

- Protocol
- Server SIP**
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC
- VoIP Dial Plan
- FXO DialPlan
- Static Route
- Hot Line

Advanced

SIP (Session Initiation Protocol)

Use SIP Server Yes No

Primary SIP Server 5060 Server address and Port (default 5060)

Secondary SIP Server 5060 Server address and Port (default 5060)

Local Domain Name (SIP userpart of authentication)

SIP Signaling Port 5060 (default 5060, between 1 to 65535)

Register Expiration 60 (in seconds, default 60, between 10 to 86400)

Session Re-Fresh INVITE UPDATE

Session Expire Time 1800 (in seconds, default 1800, between 30 to 86400, 0 = disable)

Min-SE 1800 (in seconds, default 1800, between 30 to 86400)

Information

AddPac Technology
Model : AP1800
H/W Version : 2.0
S/W Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address: 0002.a4ff.f6a4

Description

Configure the settings for SIP.
Contact your service provider for the settings

SIP Server
Primary & Secondary server,
Local domain name,
SIP Signaling Port (reboot necessary)
Timer
* register expire
* session refresh
* session expire

Basic – SIP Registration

Smart Web Manager
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SIP Registration

SIP Registration Configuration

| Pots Num | Port | E.164 Number | User Name | Password | DisplayName | HuntStop | Reg |
|----------|------|----------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
| 1000 | S0P0 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1001 | S0P1 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1002 | S0P2 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1003 | S0P3 | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |

* SIP Registration - Assigned Pots Tag Number : 1000 - 1024

SIP Registration

- E.164 Number
- User Name
- Password
- Display Name
- Hunt Stop
- Registration checking

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Set up for using FXS port to registration SIP Server

Basic – H.323 Server

Smart Web Manager
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H.323 (ITU H.323 Protocol)

Use H.323 Server Yes No

Primary Gatekeeper Server address and Port (default 1719)

Secondary Gatekeeper Server address and Port (default 1719)

H.323 ID (H.323 Identifier string)

H.323 Signaling Port (default 1720, between 1 to 65535)

H.323 Call start mode Fast Slow

H.323 Tunnel mode Enable Disable

H.323 Server
Primary & Secondary server,
H.323 ID
SIP Signaling Port (**reboot necessary**)
H.323 Call start mode
H.323 Tunnel mode

Information

AddPac Technology
Model : AP1800
H/W Version : 2.0
S/W Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : H.323
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Configure the settings for H.323. Contact your service provider for the settings

Basic – H.323 Registration

Smart Web Manager
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System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration**
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC

H.323 Registration

H.323 Registration

| Pots Num | Port | Number | HuntStop | REG |
|----------|------|----------------------|--------------------------|--------------------------|
| 1000 | S0P0 | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1001 | S0P1 | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1002 | S0P2 | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1003 | S0P3 | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |

* H323 Registration - Assigned Pots Tag Number: 1000 - 1024

H.323 Registration

- Number
- Hunt Stop
- Registration checking

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : H.323
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Set up for using FXS port to registration H.323 Server

Basic – Analog : FXS Extension

Smart Web Manager
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System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

FXS Extension

Port Information

| Port | P0 | P1 | P2 | P3 | P4 | P5 | P6 | P7 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| SLOT 0 | FXS | FXS | FXS | FXS | FXO | FXO | FXO | FXO |
| SLOT 1 | | | | | | | | |

FXS Extension Configuration

| Pots Num | Port | Numbers | Preference | HuntStop | Control |
|----------|------|---------|------------|----------|---------|
| P0:0 | | | 0 | | Delete |

* FXS Extension - Assigned Pots Tag Number : 1512 - 2023

Port Information
voice port type & physical port

FXS Extension
Configure phone-number for using inter-office Preference (0 : highest)

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
S/W Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : H.323
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Set up for using FXS port to extension number (forwarding No)

Basic – Analog : FXO Extension

Port Information
voice port type & physical port

| Port | P0 | P1 | P2 | P3 | P4 | P5 | P6 | P7 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| SLOT 0 | FXS | FXS | FXS | FXS | FXO | FXO | FXO | FXO |
| SLOT 1 | | | | | | | | |

FXO Extension Configuration

| Pots Num | Port | Numbers | Preference | HuntStop | Control |
|----------|------|---------|------------|----------|---------|
| | P0:4 | | 9 | | Delete |

* FXO Extension - Assigned Pots Tag Number : 2024 - 2535

FXO Extension
Configure phone-number for using PSTN Line
Preference (0 : highest)

Information
AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : H.323
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Basic – Analog : FXO Dial Plan

Smart Web Manager
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System

- Language
- WAN Setup

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC
- VoIP Dial Plan
- FXO DialPlan**

FXO Dial Plan / Prefix

Port Information

| Port | P0 | P1 | P2 | P3 | P4 | P5 | P6 | P7 |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| SLOT 0 | FXS | FXS | FXS | FXS | FXO | FXO | FXO | FXO |
| SLOT 1 | | | | | | | | |

Plan Table

| Rule Num | Digits to Insert | Digits to delete | Digit Pattern | Control |
|----------|----------------------|----------------------|----------------------|---------|
| | <input type="text"/> | <input type="text"/> | <input type="text"/> | Delete |
| | | | | Add |

FXO Table

| Pots Num | FXS | FXO | Number | PlanIndex | Preference | Control |
|----------|-----|------|----------------------|-----------|------------|---------|
| | | | | | | Delete |
| | | P0:4 | <input type="text"/> | N.A. | 9 | Apply |

Assigned Translation-Rule Tag Number : 100 - 199
Assigned Pots Tag Number : 3560 - 4071

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : H.323
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Port Information
voice port type & physical port

Plan Table
Configure translation rule for FXO Port
- first, 'Number of Digits to Delete' option is applied.
- second, 'Digits to Insert' option is applied.

(ex) Origin called Number = 123456
Number of Digits to Delete = 2
Digits to Insert = "88"

result = 883456

FXO Table
Configure FXO Port with translation rule.

Basic – Digital : E1/ T1 Trunk

The screenshot shows the Smart Web Manager interface for configuring an E1/T1 Trunk. The page is titled "E1/T1 Trunk" and includes several configuration sections. Three yellow callout boxes on the left provide additional context for the configuration options:

- E1/T1 Port:** Configure E1 channel & group. This points to the "E1 Port (Slot 0/0)" section at the top of the configuration area.
- E1/T1 value:** Clock-Source, Framing, Line Code, Signaling type. This points to the "Clock-Source", "Framing", "Line Code", and "Signaling-type" sections.
- E1/T1Sub function:** ISDN-PRI, R2-MFC, Busyout. This points to the "ISDN-PRI", "R2-MFC", and "Busyout" sections.

The configuration area includes the following sections:

- E1 Port (Slot 0/0):** A table with columns for Slot/Port, group Num (0-9), Time slot Range(1-31,16-31,1,2,3), and Control. The current value is 0/0.
- Clock-Source:** Set to Master.
- Framing:** Set to CRC4.
- Line Code:** Set to HDB3.
- Signaling-type:** Set to ISDN-PRI.
- ISDN-PRI:**
 - Protocol-emulate: Network (selected), User.
 - Virtual-Connect: Enable, Disable (selected).
 - Immediate-disc: Enable, Disable (selected).
 - Dial-Tone-Generate: Enable, Disable (selected).
 - Comband-Type: a-law (selected), u-law.
 - N303: 2 (1~10sec).
 - Q931 Timer: T303: 4 (1~400sec), T310: 10 (5~400sec).
- R2-MFC:** Get-Calling-number: Enable, Disable (selected).
- Busyout:** Action: PortDown, None (selected).

On the right side, there is an "Information" panel with details about the device and software, and a "Description" panel with a note: "Configure the settings for VoIP Dial Plan and Prefix table".

Basic – Digital : E1/ T1 Extension

Smart Web Manager
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System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

Basic

- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension**
- DTMF/CODEC
- VoIP Dial Plan
- FXO DialPlan
- Static Route

E1/T1 Extension

Port Information

| Port | P0 | P1 | P2 | P3 | P4 | P5 | P6 | P7 |
|--------|----|----|----|----|----|----|----|----|
| SLOT 0 | E1 | E1 | | | | | | |
| SLOT 1 | | | | | | | | |

E1/T1 Extension Configuration

| Pots Num | Port | Group | Numbers | HuntStop | Forward Digits(0-99) | Control |
|----------|------|-------|---------|----------|--|--|
| P0:0 | | | | | <input checked="" type="radio"/> from <input type="radio"/> last | <input type="button" value="Delete"/> <input type="button" value="Apply"/> |

* E1/T1 Extension - Assigned Pots Tag Number : 2536 - 2737

Information

AddPac Technology
 Model : AP1800
 H/W Version : 2.0
 SW Version : 8.41.086
 Smart Web Version : 0.4
 Smart Web Build : Sep 15 2010
 Voice Interface
 E1(2) : None
 Protocol : H.323
 Status : Unregistered
 Current Calls : 0
 CallNetwork : Static 0.0.0.0
 Mac Address : 0002.a4ff.f6a4

Description

Port Information
voice port type & physical port

E1/T1 Extension
Configure phone-number for using PABX
- Forward-Digits (from / last)

Basic – DTMF/CODEC

CODEC
Configure voice codec preference
(g711a, g711u, g729, g7231, g726)

DTMF
Configure DTMF relay method
(in-band, RFC2833, out-of-band, CISCO type out-of-band)

Smart Web Manager
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System

- Language

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC
- VoIP Dial Plan

DTMF/CODEC

Voice CODEC

- Preference 1: None
- Preference 2: None
- Preference 3: None
- Preference 4: None
- Preference 5: None
- Preference 6: None

DTMF Relay mode

- DTMF relay by In-band voice
- DTMF relay by RTP payload defined by RFC 2833
- DTMF relay by Out-of-band signal
- DTMF relay by Cisco out-of-band signal

Information

AddPac Technology
Model : AP1800
H/W Version : 2.0
S/W Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010

Voice Interface

T1(2) : None
Protocol : H.323
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Configure the settings for GSM
Dial Plan and Prefix table

Basic – VoIP Dial Plan

VoIP PLAN
 Configure translation rule for VOIP Peer.
 - first, 'Number of Digits to Delete' option is applied.
 - second, 'Digits to Insert' option is applied.

(ex) Origin called Number = 123456
 Number of Digits to Delete = 2
 Digits to Insert = "88"

 result = 883456

Smart Web Manager
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System

- Language
- WAN Setup
- LAN Setup
- NAT

VoIP Dial Plan / Prefix

Plan Table

| Rule Num | Digits to Insert | Digits to delete | Digit Pattern | Control |
|----------|----------------------|----------------------|----------------------|---------|
| | <input type="text"/> | <input type="text"/> | <input type="text"/> | Delete |
| | | | | Add |

Prefix Table

| Voip Num | Prefix | Called Num Plan | Calling Num Plan | Control |
|----------------------|--------|-----------------|------------------|---------|
| <input type="text"/> | | N.A. | N.A. | Delete |
| | | | | Apply |

* VoIP Dial Plan - Assigned Translation-Rule Tag Number : 0 - 99
 * VoIP Dial Plan - Assigned VoIP Tag Number : 10000 - 10099

Information

AddPac Technology
 Model : AP1800
 H/W Version : 2.0
 S/W Version : 0.41.006
 Smart Web Version : 0.4
 Smart Web Build : Sep 15 2010
 Voice Interface
 T1(2) : None
 Protocol : H.323
 Status : Unregistered
 Current Calls : 0
 CallNetwork : Static 0.0.0.0
 Mac Address: 0002.a4ff.f6a4

Description

Configure the settings for the outbound call of main/remote and incoming E1/T1 and routing

Prefix Table
 Configure VoIP Peer with translation rule.
 (Serviced by SIP SERVER)

Basic – Static Route

Smart Web Manager
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System

- Language
- WAN Setup
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- System Time
- File Browser

Basic

- Protocol
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- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension

Static Route

Set Remote Site Call(5-digit number is set to begin *2->*2...)

| Pots Num | Remote Site IP | Signaling Port | Prefix | Digits to Insert | Digits to Delete | Name of Remote Site | Answer Addr | Control |
|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------|
| * | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | Apply |

* Static Route - Assigned Voip Tag Number : 10100 - 10199
* Static Route - Assigned Translation-Rule Tag Number : 10100 - 10199

Static Route
Configure Static VoIP Peer for using Inter-Office .
(Already, I know IP & phone-number)

Information

AddPac Technology
Model : AP1800
H/W Version : 2.0
S/W Version : 8.41.027
Smart Web Version : 0.4
Smart Web Build : Sep 16 2010

Voice Interface
E1(2) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Basic – Hot Line

Smart Web Manager
www.addpac.com

System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC
- VoIP Dial Plan
- FXO DialPlan
- Static Route
- Hot Line

Hot Line

Hot Line Configuration

| Port | Hot Line Number | Digit Input Timeout <0~10 sec> |
|---------|----------------------|--------------------------------|
| S0P0(S) | <input type="text"/> | 0 |
| S0P1(S) | <input type="text"/> | 0 |
| S0P2(S) | <input type="text"/> | 0 |
| S0P3(S) | <input type="text"/> | 0 |
| S0P4(O) | <input type="text"/> | 0 |
| S0P5(O) | <input type="text"/> | 0 |
| S0P6(O) | <input type="text"/> | 0 |
| S0P7(O) | <input type="text"/> | 0 |

Information

AddPac Technology
Model : AP1800
H/W Version : 2.0
S/W Version : 8.41.027
Smart Web Version : 0.4
Smart Web Build : Sep 16 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Hot Line

- Used as incoming direct call of FXO port(Connection PLAR)
- Timer (FXS port only : No Digit event is occurred for configured timer value, Auto-Dialing will be started)

Advanced – Gain & CID

Smart Web Manager
www.addpac.com

System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
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- E1/T1 Extension
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- FXO DialPlan
- Static Route
- Hot Line

Gain & CID

Gain

| Port | Port Type | InputGain | OutputGain | Caller ID |
|------|-----------|-----------|------------|-------------------------------------|
| P0:0 | FXS | 0 | 0 | <input checked="" type="checkbox"/> |
| P0:1 | FXS | 0 | 0 | <input checked="" type="checkbox"/> |
| P0:2 | FXS | 0 | 0 | <input checked="" type="checkbox"/> |
| P0:3 | FXS | 0 | 0 | <input checked="" type="checkbox"/> |
| P0:4 | FXO | 0 | 0 | <input type="checkbox"/> |
| P0:5 | FXO | 0 | 0 | <input type="checkbox"/> |
| P0:6 | FXO | 0 | 0 | <input type="checkbox"/> |
| P0:7 | FXO | 0 | 0 | <input type="checkbox"/> |

Apply

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.086
Smart Web Version : 0.4
Smart Web Build : Sep 15 2010
Voice Interface
S(4)O(4) : None
Protocol : H.323
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address: 0002.a4ff.f6a4

Description

Adjust the Input voice volume from FXS/FXO/E1/E&M to DSP and the output volume from DSP to the phone or PSTN line;

Gain & CID
Configure Input-gain, output-gain and caller-ID.

Advanced - Fax

Smart Web Manager
www.addpac.com

System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC

Fax

Fax Mode T.38 Inband T.38 Bypass

Fax Rate Disable 2400 4800 7200 9600 12000 14400

Apply

FAX
Configure fax mode & rate (VoIP Lines)

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.027
Smart Web Version : 0.4
Smart Web Build : Sep 16 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address: 0002.a4ff.f6a4

Description

Enable or disable T.38/Inband T.38, which is fax internet protocol and specify Baudrate

Advanced - Service

Smart Web Manager
www.addpac.com

System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
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- FXO Extension
- E1/T1 Extension
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- VoIP Dial Plan
- FXO DialPlan
- Static Route
- Hot Line

Advanced

- Gain & CID
- Fax
- Service
- Filtering
- Security

Miscellaneous

- Port & Call Status
- System Status
- Call Log

Service

Application Services

- Enable Telnet Server Port: 23 (default 23, 1-65535)
- Enable HTTP Server Port: 80 (default 80, 1-65535)
- Enable FTP Control Port: 21 (default 21, 1-65535) Data Port: 20 (default 20, 1-65535)
- Enable Syslog Primary Server: [] Port: [] (default 514) Secondary Server: [] Port: [] (default 514) Log Level: 0-emergency Log Command: disable

Timer

Inter Digit Time: 3 sec (default 3, 1-600)

Call Service

Transfer: Hook-Flash Not-assigned

Hold: Hook-Flash Not-assigned

SIP Transfer

Mode: blind Attended

Skype Server

Use: Enable Disable

Hunt

Algorithm: (0) longest - preference - random

Change Password

ID: root New Password: [] Confirm Password: []

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.027
Smart Web Version : 0.4
Smart Web Build : Sep 16 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Enable or disable Telnet, HTTP, FTP and specify the access port and Call Hold/ Transfer and Timer .

Service

- Configure application service(Telnet, HTTP, ftp, syslog)
- Configure IDT(Inter Digit Time)
- Configure Call-Transfer-Mode & Hook-Flash-Usage-Type.
- Configure SIP Call-Transfer-Mode.
- Configure Skype SIP Server Use
- Hunt Algorithm
- Changing Password

Advanced - Filtering

Smart Web Manager
www.addpac.com

System

- Language
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Basic

- Protocol
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- E1/T1 Extension
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- FXO DialPlan
- Static Route
- Hot Line

Filter

FTP Filter

| Network Addr | Network Mask | Control |
|----------------------|----------------------|---------|
| <input type="text"/> | <input type="text"/> | Add |

HTTP Filter

| Network Addr | Network Mask | Control |
|----------------------|----------------------|---------|
| <input type="text"/> | <input type="text"/> | Add |

Telnet Filter

| Network Addr | Network Mask | Control |
|----------------------|----------------------|---------|
| <input type="text"/> | <input type="text"/> | Add |

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
S/W Version : 8.41.027
Smart Web Version : 0.4
Smart Web Build : Sep 16 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

For FTP, HTTP, Telnet, set up one IP or IP band for allowing access

Filter
Configure application service filter with IP & Subnet mask.

Advanced - Security

Smart Web Manager
www.addpac.com

System

- Language
- WAN Setup
- LAN Setup
- NAT
- NTP
- System Time
- File Browser

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
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- E1/T1 Extension
- DTMF/CODEC
- VoIP Dial Plan
- FXO Dial Plan

Security

IP Filtering Enable Disable

Allowed IP Address List

WarDialing Filtering Enable Disable

Allow Digit Length(IP to PSTN) Min Max

H323 Shutdown Enable Disable

SIP Shutdown Enable Disable

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.027
Smart Web Version : 0.4
Smart Web Build : Sep 16 2010

Voice Interface

S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Security

- IP Filtering : Allowing only the inbound call which is registered to Call-Routing of the server by static IP.
- Allowed IP address list : Allowing only inbound call which is added ip address.
- WarDialing : Allowing only the inbound call with the number registered to Inter-Office and phone-number.
- Digit Length : Allowing only the inbound call with the number registered to Inter-Office and phone-number
- H.323 : H.323 signaling packets are filtered.
- SIP : SIP signaling packets are filtered.

Miscellaneous – Port & Call Status

Smart Web Manager
www.addpac.com

System

- Language
- WAN Setup

Port & Call Status

Port Status

| SLOT | Port | Port Group | | | | | | | |
|--------|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | 0(FXS) | 1(FXS) | 2(FXS) | 3(FXS) | 4(FXO) | 5(FXO) | 6(FXO) | 7(FXO) |
| SLOT 0 | Status | I | I | I | I | I | I | I | I |
| | Select | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Unblock Block

Connection State : ■ (Connected) ■ (Disconnected || Blocked)
 Call State : ■ (Idle) ■ (Ring || Dial) ■ (Called) ■ (Calling) ■ (Blocked)

Call State

Port Direction Established Time Calling Number Called Number CODEC Src/Dest. IP

Information

AddPac Technology
 Model : AP1800
 HW Version : 2.0
 SW Version : 8.41.027
 Smart Web Version : 0.4
 Smart Web Build : Sep 16 2010
 Voice Interface
 S(4)O(4) : None
 Protocol : SIP
 Status : Unregistered
 Current Calls : 0
 CallNetwork : Static 0.0.0.0
 Mac Address : 0002.a4ff.f6a4

Description

Verify port status and retrieve the present call information

Analog/Digital Port
 Real-time display about analog or digital port status (occupation, call status). Provide a specific port blocking function

Active Call Status
 Real-time display about current active call status (calling party addr, called party addr. Codec, etc)

Miscellaneous – System Status

System Status

- voice port status & information
- SIP-UA status & information
- gateway status & information
- system utilization information

System Status

Voice Port

| Port | LineType | Status | InGain | OutGain | TieType | TieDigits | CallNum | Tcalled | Tcalling |
|------|----------|--------|--------|---------|---------|-----------|---------|---------|----------|
| 0/ 0 | FXS | Idle | 0 | 0 | none | | -1 | -1 | -1 |
| 0/ 1 | FXS | Idle | 0 | 0 | none | | -1 | -1 | -1 |
| 0/ 2 | FXS | Idle | 0 | 0 | none | | -1 | -1 | -1 |
| 0/ 3 | FXS | Idle | 0 | 0 | none | | -1 | -1 | -1 |
| 0/ 4 | FXO | Idle | 0 | 0 | none | | -1 | -1 | -1 |
| 0/ 5 | FXO | Idle | 0 | 0 | none | | -1 | -1 | -1 |
| 0/ 6 | FXO | Idle | 0 | 0 | none | | -1 | -1 | -1 |
| 0/ 7 | FXO | Idle | 0 | 0 | none | | -1 | -1 | -1 |

SIP-UA

Proxyserver Registration Information
 proxyserver registration option = e164
 Proxyserver list :
 No Proxyserver Information.

SIP UA Timer counters
 retry counter = 10

SIP UA Timer values
 tretry (sip retry timer) = 500 msec.
 tinterval (sip retry max interval timer) = 4 sec.
 treg (sip register timer) = 60 sec.
 tregtry (sip register retry timer) = 20 sec.
 texpires (sip invite expire timer) = 180 sec.
 tsipping (sip ping timer) = 45 sec.
 tarv (sip srv retry timer) = 60 sec.
 thppolling (sip higher priority polling timer) = 30 sec.

SIP UA Session Timer value
 Min-SE = 1800 sec.
 Session-Expires = 1800 sec.

SIP DNS SRV Query : Disable
 SIP Called-Party-Number : from URL

Information

AddPac Technology
 Model : AP1800
 H/W Version : 2.0
 S/W Version : 8.41.027
 Smart Web Version : 0.4
 Smart Web Build : Sep 16 2010

Voice Interface
 S(4)O(4) : None

Protocol : SIP
 Status : Unregistered
 Current Calls : 0
 CallNetwork : Static 0.0.0.0
 Mac Address : 0002.a4ff.f6a4

Description

Verify the present port information, Server Register status, CPU and Memory usage

Miscellaneous – Call Log

Smart Web Manager
www.addpac.com

System

- Language
- WAN Setup
- LAN Setup
- NAT
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- System Time
- File Browser

Basic

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- E1/T1 Extension
- DTMF/CODEC
- VoIP Dial Plan
- FXO DialPlan
- Static Route
- Hot Line

Advanced

- Gain & CID
- Fax
- Service
- Filtering
- Security

Miscellaneous

- Port & Call Status
- System Status
- Call Log
- System Log
- Test Call
- Ping

Call Log

| CallNum | EventTime | Descript | CallingPartyNum | CalledPartyNum | RemoteInfo | SetupTime | Dur | Reason |
|---------|-----------|----------|-----------------|----------------|------------|-----------|-----|--------|
|---------|-----------|----------|-----------------|----------------|------------|-----------|-----|--------|

Call Log
Show call history information

- * call number
- * event time
- * description
- * calling number
- * called number
- * remote IP information
- * call setup time
- * call duration
- * call clear reason

Miscellaneous – System Log

Smart Web Manager
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System

- Language
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Basic

- Protocol
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- FXO Extension
- E1/T1 Extension
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- Static Route
- Hot Line

Advanced

- Gain & CID
- Fax
- Service
- Filtering
- Security

Miscellaneous

- Port & Call Status
- System Status
- Call Log
- **System Log**
- Test Call
- Ping

System Log

command logging buffers (messages logged)

event logging buffers (messages logged)

System Log
- command log
- system alarm log (ex : interface down)

Information

AddPac Technology
Model : AP1800
H/W Version : 2.0
S/W Version : 8.41.027
Smart Web Version : 0.4
Smart Web Build : Sep 16 2010

Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Retrieve the system log

Miscellaneous – Test Call

Smart Web Manager
www.addpac.com

System

- Language
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Basic

- Protocol
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- FXO Extension
- E1/T1 Extension
- DTMF CODEC

Test Call

| Port | B-Ch (1-24) | Test Phone Number | Digits | Command | | | |
|------|-------------|----------------------|----------------------|---------|-------|-------|-----|
| S0P0 | - | <input type="text"/> | <input type="text"/> | Start | Voice | Digit | End |
| S0P1 | - | <input type="text"/> | <input type="text"/> | Start | Voice | Digit | End |
| S0P2 | - | <input type="text"/> | <input type="text"/> | Start | Voice | Digit | End |
| S0P3 | - | <input type="text"/> | <input type="text"/> | Start | Voice | Digit | End |

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
S/W Version : 8.41.027
Smart Web Version : 0.4
Smart Web Build : Sep 16 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Make a test call remotely through web

Test Call
remote diagnose the proper operation of VoIP call
- Test Phone Number
- Digits
- Start / Voice / Digit / End Button

Miscellaneous - Ping

Smart Web Manager
www.addpac.com

System

- Language

Basic

- Protocol
- Server SIP
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- E1/T1 Extension
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- VoIP Dial Plan
- FXO DialPlan
- Static Route

Ping

Host address Start

PING
You can diagnose network status by PING.

PING
Show real time ping status.

Information

AddPac Technology
Model : AP1800
HW Version : 2.0
SW Version : 8.41.027
Smart Web Version : 0.4
Smart Web Build : Sep 16 2010
Voice Interface
S(4)O(4) : None
Protocol : SIP
Status : Unregistered
Current Calls : 0
CallNetwork : Static 0.0.0.0
Mac Address : 0002.a4ff.f6a4

Description

Verify the outgoing Ping to the outside from the device by entering IP address and URL.
Verify network status of the location in where the terminal is located

VoIP Gateway Series

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