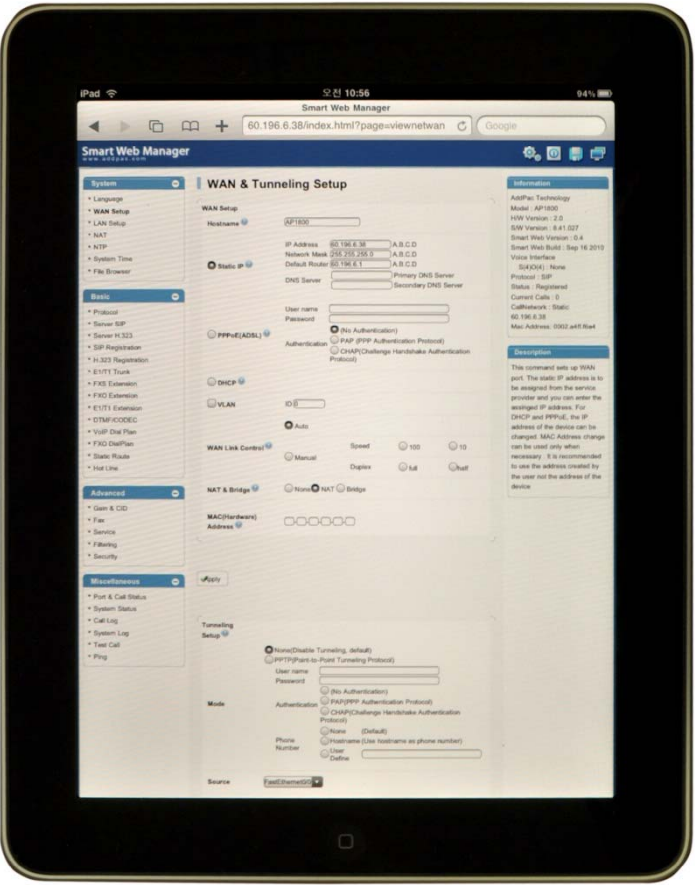


Smart Web Manager for VoIP Gateway Series



AddPac

AddPac Technology

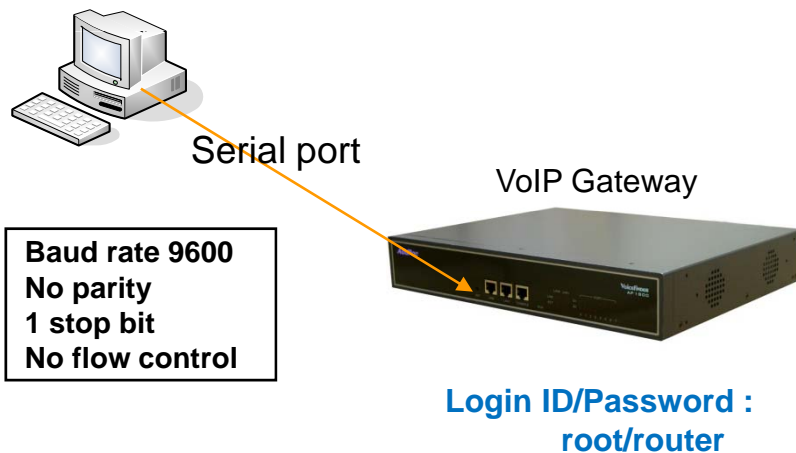
2010, Sales and Marketing

Contents

- Web Connection
- Main Page Layout
- System Configuration
 - Language, WAN Setup, LAN Setup, NAT, NTP, System Time, File Browser
- Basic Configuration
 - Protocol : SIP Server , H.323 Server
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- Advanced Configuration
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- Miscellaneous Configuration
 - Port & Call Status, System Status
 - Call Log, System Log, Test Call, Ping

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

Smart Web Manager

System Information

HW Version	2.0
SW Version	8.41.086
MAC Address	0002.44ff.85a4
VoIP Protocol	SIP
Voice Interface Module	S4304: 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: S4304: 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.

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 for 'Basic' and 'Advanced', a main configuration area, and an 'Information' panel on the right. Three callout boxes on the left describe the LAN Setup options: 'None' (configured by default IP), 'IP Share' (sharing of LAN0), and 'Static' (configured directly by user). The 'IP Share' and 'Static' sections are highlighted with red dashed boxes. The 'IP Share' section shows fields for IP Address (192.168.10.1) and Network Mask (255.255.255.0). The 'Static' section shows fields for IP Address, Network Mask, Address Range, and DNS Server, along with an 'Enable DHCP Server' checkbox and a 'Default Lease time' field.

None
It is configured by default IP.

IP Share
This is sharing of LAN0.

Static
This is configured directly by user.

LAN Setup

- None
- IP Share (IP Connect)
 - IP Address: 192.168.10.1 (A.B.C.D (default 192.168.10.1))
 - Network Mask: 255.255.255.0 (A.B.C.D (default 255.255.255.0))
- Static
 - Enable DHCP Server
 - Default Lease time: 0 (in seconds, default 43200, 1 day)
 - Address Range: [] - []
 - DNS Server: [] (A.B.C.D)

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 LAN port. This setting is used for the connected PC internally. It is recommended to use IP share for 1 PC and static for many. For static, the private address band is required. The recommended address bands are IP Address 192.168.10.1, Network Mask 255.255.255.0, Address Range 192.168.10.2 - 192.168.10.254. At this time, the internal PC must be set to [Receiving IP address automatically]

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				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.

System - NTP

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

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
- 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 – File Browser

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

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

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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

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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

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

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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
					Apply

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

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 extension number (forwarding No)

Port Information
voice port type & physical port

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

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
					Apply

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

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

Basic – Analog : FXO Dial Plan

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								

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.

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

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 page includes the following sections:

- E1 Port (Slot 0/0):** A table for configuring E1 ports. The table has columns for Slot/Port, group Num (0-9), Time slot Range(1-31,16-31,1,2,3), and Control. An "Add" button is present.
- 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.
 - Q931 Timer: T303 (value: 4, range: 1-400sec), T310 (value: 10, range: 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					from last	Delete

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

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

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
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

The screenshot displays the Smart Web Manager interface for configuring DTMF and CODEC settings. The main content area is titled "DTMF/CODEC" and contains two primary sections:

- Voice CODEC:** A section with a red dashed border containing six preference dropdown menus, all currently set to "None".
- DTMF Relay mode:** A section with a red dashed border containing four radio button options:
 - 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

Below these sections is an "Apply" button with a green checkmark icon.

Two yellow callout boxes provide additional context:

- 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)

The interface also includes a left sidebar with "System" and "Basic" sections, and a right sidebar with "Information" and "Description" sections.

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
www.addpac.com

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
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

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

Apply

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

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

Apply

Advanced - Filtering

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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- 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

The screenshot shows the 'Security' configuration page in the Smart Web Manager. The page is divided into several sections:

- 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 Dial Plan.
- Security (Main Content):**
 - IP Filtering:** Radio buttons for Enable and Disable (Disable is selected). Below is an 'Allowed IP Address List' with an input field, 'Apply', and 'Delete' buttons.
 - WarDialing Filtering:** Radio buttons for Enable and Disable (Disable is selected).
 - Allow Digit Length(IP to PSTN):** Min and Max input fields.
 - H323 Shutdown:** Radio buttons for Enable and Disable (Disable is selected).
 - SIP Shutdown:** Radio buttons for Enable and Disable (Disable is selected).
- 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:** A text area for additional notes.

A yellow callout box titled 'Security' provides the following explanations:

- 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

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
- 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

- 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
www.addpac.com

System

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

Basic

- Protocol
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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
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System

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

Basic

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

Ping

Host address Start

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

PING
You can diagnose network status by PING.

PING
Show real time ping status.

VoIP Gateway Series

Thank you!

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