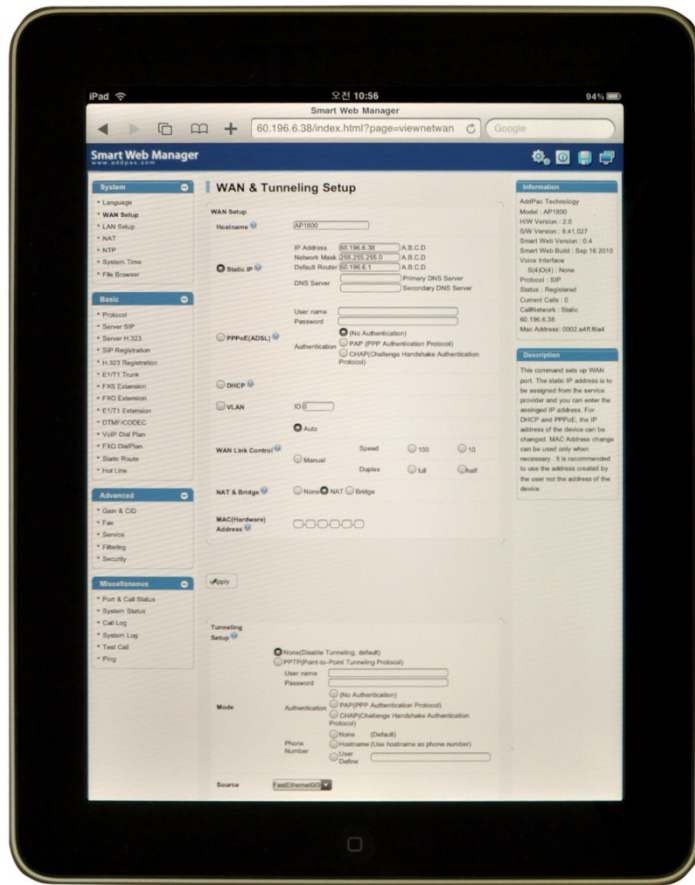


# Smart Web Manager for VoIP Gateway Series



## AddPac

AddPac Technology

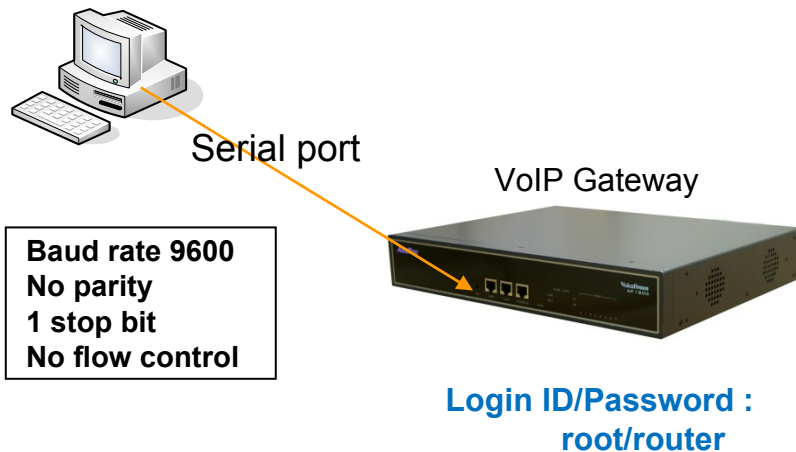
2010, Sales and Marketing

# Contents

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- Basic Configuration
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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



**LAN 1 Default IP address**  
IP Address : 192.168.10.1  
Subnet mask : 255.255.255.0

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

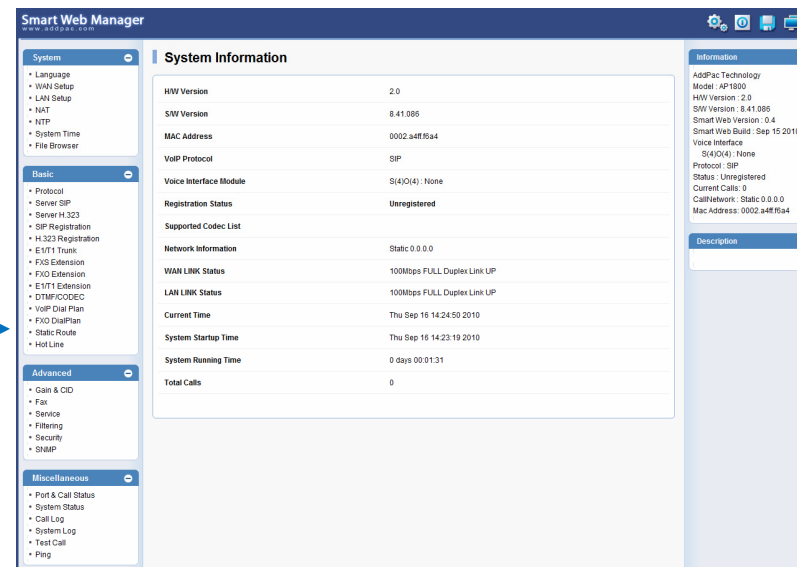
Connect to VoIP Gateway



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

ID : root

Password : router



# 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**  
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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

## 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, a main configuration area, and an information/description panel on the right.

**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	<input type="text"/>	<input type="text"/>	<input type="text"/>	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 displays the 'System Time' configuration page in the Smart Web Manager interface. The page title is 'System Time'. The current time is shown as 'Thu Sep 16 14:29:54 2010'. Below this, there is a 'Set System Time' section with input fields for Year, Month (set to 1), Day (set to 1), Hour (set to 1), Min (set to 1), and Sec (set to 1). A red dashed box highlights the 'Set System Time' section. Below the time settings is an 'Apply' button with a green checkmark icon. A yellow box with the text 'System Time Configure Local Time' is positioned below the 'Apply' button, with a line pointing to the 'Set System Time' section. The left sidebar contains a 'System' menu with options: Language, WAN Setup, LAN Setup, NAT, NTP, System Time (selected), and File Browser. Below it is a 'Basic' menu with options: Protocol, Server SIP, Server H.323, SIP Registration, H.323 Registration, E1/T1 Trunk, FXS Extension, FXO Extension, E1/T1 Extension, and DTMF/CODEC. The right sidebar contains an 'Information' section with details: 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, and Mac Address: 0002.a4ff.f6a4. Below the information is a 'Description' section.

# 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

The screenshot displays the Smart Web Manager interface for configuring VoIP signaling protocols. The main content area is titled "Protocol" and contains two radio button options: "SIP(Session Initiation Protocol)" (which is selected) and "H.323(ITU H.323 Protocol)". A red dashed box highlights these options. Below the options is an "Apply" button with a green checkmark icon. A yellow callout box with a black border contains the text "Configure VoIP signaling protocol SIP , H.323".

**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

**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  
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

## 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.6a4

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**  
www.addpac.com

**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  1719 Server address and Port (default 1719)

Secondary Gatekeeper  1719 Server address and Port (default 1719)

H.323 ID  (H.323 Identifier string)

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

H.323 Call start mode  Fast  Slow

H.323 Tunnel mode  Enable  Disable

**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

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

# Basic – H.323 Registration

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

## 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
					Apply

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

**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)

**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		Apply

\* 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

**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"/>	<input type="button" value="Delete"/> <input type="button" value="Add"/>

**FXO Table**

Pots Num	FXS	FXO	Number	PlanIndex	Preference	Control
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/> <input type="button" value="Apply"/>

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

**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

**Smart Web Manager**  
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**E1/T1 Trunk**

**E1/T1 Port**  
Configure E1 channel & group

**E1/T1 value**  
Clock-Source  
Framing  
Line Code  
Signaling type

**E1/T1Sub function**  
ISDN-PRI  
- Protocol-emulate  
- virtual-Connect  
- immediate-disconnect  
- dial-tone generate  
- Compand type  
- Q931 Timer  
R2-MFC  
- Get calling number  
Busyout  
- monitoring E1/T1 port status

E1 Port (Slot 0/0)		Slot 0/0	Slot 0/1	Control
Slot/Port	group Num (0~9)	Time slot Range(1-31,16-31,1,2,3)		
0/0				Add

**Clock-Source**: Master

**Framing**: CRC4

**Line Code**: HDB3

**Signaling-type**: ISDN-PRI

**ISDN-PRI**

Protocol-emulate	<input checked="" type="radio"/> Network	<input type="radio"/> User
Virtual-Connect	<input type="radio"/> Enable	<input checked="" type="radio"/> Disable
Immediate-disc	<input type="radio"/> Enable	<input checked="" type="radio"/> Disable
Dial-Tone-Generate	<input type="radio"/> Enable	<input checked="" type="radio"/> Disable
Compand-Type	<input checked="" type="radio"/> a-law	<input type="radio"/> u-law
	N303	2 (1~10sec)
Q931 Timer	T303	4 (1~400sec)
	T310	10 (5~400sec)

**R2-MFC**

Get-Calling-number	<input type="radio"/> Enable	<input checked="" type="radio"/> Disable
--------------------	------------------------------	--

**Busyout**

Action	<input type="radio"/> PortDown	<input checked="" type="radio"/> None
--------	--------------------------------	---------------------------------------

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  
E1(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 VoIP Dial Plan and Prefix table

Apply

# Basic – Digital : E1/ T1 Extension

**Smart Web Manager**  
www.addpac.com

**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	Delete Apply

\* 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  
HW 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

**Smart Web Manager**  
www.addpac.com

**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

**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)

**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

The screenshot shows the 'Smart Web Manager' interface for configuring a 'VoIP Dial Plan / Prefix'. The main content area is divided into two sections: 'Plan Table' and 'Prefix Table', both highlighted with red dashed boxes. The 'Plan Table' has columns for 'Rule Num', 'Digits to Insert', 'Digits to delete', 'Digit Pattern', and 'Control'. The 'Prefix Table' has columns for 'Voip Num', 'Prefix', 'Called Num Plan', 'Calling Num Plan', and 'Control'. A sidebar on the left lists system settings like Language, WAN Setup, LAN Setup, and NAT. A right sidebar contains system information and a description of the configuration.

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

**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"/>	<input type="button" value="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
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- 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"/>

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;

Apply

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

# Advanced - Fax

The screenshot displays the 'Smart Web Manager' interface for configuring Fax settings. The main content area is titled 'Fax' and contains two primary configuration sections: 'Fax Mode' and 'Fax Rate'. The 'Fax Mode' section has three radio button options: 'T.38' (selected), 'Inband T.38', and 'Bypass'. The 'Fax Rate' section has seven radio button options: 'Disable', '2400', '4800', '7200', '9600' (selected), '12000', and '14400'. A red dashed box highlights these two sections. Below the configuration area is an 'Apply' button with a green checkmark icon. A yellow callout box with a black border contains the text: 'FAX Configure fax mode & rate (VoIP Lines)'. A thin black line points from this callout box to the 'Fax Rate' section. On the left side, there is a navigation menu with two sections: 'System' (containing Language, WAN Setup, LAN Setup, NAT, NTP, System Time, File Browser) and 'Basic' (containing Protocol, Server SIP, Server H.323, SIP Registration, H.323 Registration, E1/T1 Trunk, FXS Extension, FXO Extension, E1/T1 Extension, DTMF/CODEC). On the right side, there are two information panels: 'Information' (listing 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) and 'Description' (stating '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**

**Applicaton 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: [ ]

Apply

**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

The screenshot shows the Smart Web Manager interface with the 'Filter' section selected. The interface includes a left sidebar with 'System' and 'Basic' categories, a central configuration area, and a right sidebar with 'Information' and 'Description' sections.

**Filter**

**FTP Filter**

Network Addr	Network Mask	Control
<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>

**HTTP Filter**

Network Addr	Network Mask	Control
<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>

**Telnet Filter**

Network Addr	Network Mask	Control
<input type="text"/>	<input type="text"/>	<input type="button" value="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 titled 'Security' and contains several sections with radio buttons for 'Enable' and 'Disable' options. A red dashed box highlights the 'IP Filtering', 'Allowed IP Address List', 'WarDialing Filtering', 'Allow Digit Length(IP to PSTN)', 'H323 Shutdown', and 'SIP Shutdown' sections. A yellow callout box at the bottom provides detailed explanations for each of these settings.

**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 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  
 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 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  
 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 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
- 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

**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
- 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

### 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

The screenshot shows the 'Smart Web Manager' interface for a device. The main content area is titled 'Ping' and contains a 'Host address' input field and a 'Start' button. A yellow callout box on the left says 'PING You can diagnose network status by PING.' A larger yellow callout box at the bottom says 'PING Show real time ping status.' with a line pointing to the main content area. The left sidebar has 'System' and 'Basic' sections. The right sidebar has 'Information' and 'Description' sections.

**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

**PING**  
You can diagnose network status by PING.

**PING**  
Show real time ping status.

**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**

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!

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