

User Manual

TeleAdapt DeskPoint Pro

TA-6950C, TA-7950C, TA-8050C

03/01/2013

VERSION 0.1 DRAFT

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Notice

Federal Communications Commission (FCC) Statement

15.21 You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

15.105(b) This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

• INFORMATION

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

The use of a permanently attached antenna or of an antenna that user a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of required this section.

The manufacturer may design the unit so that broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

• Description of the cable and adapter

For ensure compliance with FCC rules, user must use the supplied RJ-45 cable and adapter with ferrite core. The supplied Ferrite cores are FEELUX_BNF-27 for WAN Cable, E-tech CU093 for Adapter, E-tech_CU1330 for LAN Cable of TA-7950C/TA-8050C, and E-tech CU0530 for LAN Cable of TA-6950C.

When use a ferrite core for Adapter, it must wrapped 2 turn.

When use the ferrite core for RJ-45 Cable, it must wrapped 2 turn front RJ-45 cable of TA-6950C or 1 turn one side of supplied RJ-45 cable for TA-7950C and TA-8050C.

Declaration of Conformity

FCC Evaluation For Declaration of Conformity

Applicant's Name : TeleAdapt (HK) Ltd
Applicant's Address : Unit G, 15/F, Block 2, Leader Industrial Center, 188-202, Texaco Road, Tsuen Wan, HK.

Manufacturer's Name : TeleAdapt Trade (Shenzhen) Limited Company Dongguan
Manufacturer's Address : Unit B 9/F, Haofeng Mansion, No.1, Dongxing Street One, Changping Town, Dongguan City, Guangdong Province, China

FCC ID : None
Product Name : Wireless LAN Access Point
Model Number(s) : TA-6950C
Multi List : TA-7950C, TA-8050C
Other Specification : None
Report Number : KST-FCC-130001

Supplementary Information:

The device bearing the FCC ID specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with measurement procedures specified in

ANSI C63.4-2003.

Unintentional Radiators:

FCC Part15 Subpart B
Class B personal computers and peripherals

Applicant : TeleAdapt (HK) Ltd

Signature :



Date : January 17, 2013

Test Lab: KOSTEC Co., Ltd.

Signature:



Date : January 16, 2013

1. Features

The DeskPoint Pro is designed for use in hotel rooms and combines 802.11n, IEEE 802.11g and IEEE 802.11b wireless technology to provide the best wireless performance, enabling client computers to access the resources on the hotel Ethernet network. With the Web-based user interface or SNMP a network administrator can easily and clearly manage the DeskPoint Pro.

- **Desktop or Under Desk**
 - **Desktop.** The TA-6950C and TA-7950C are on desk models. The TA-6950C incorporates a retractable spool whereas the TA-7950C has a RJ45 socket.
 - **Under Desk.** The TA-8050C is designed to fit unobtrusively under the a desk in the guest room and can be used in conjunction with other TeleAdapt cable management products.
- **IEEE 802.11n**
 - **RF type selection.** The RF type of the wireless interface can be configured to work in IEEE 802.11n only , IEEE 802.11b only, IEEE 802.11g only, or mixed mode (802.11n, 802.11g and 802.11b simultaneously).
 - **64-bit and 128-bit WEP (Wired Equivalent Privacy).** For authentication and data encryption.
 - **Enabling/Disabling SSID broadcasts.** The administrator can enable or disable the SSID broadcasts functionality for security reasons. The correct SSID has to be specified on client computers.
 - **IEEE 802.1x/RADIUS.** The DeskPoint Pro can be configured to authenticate wireless users and distribute encryption keys dynamically by IEEE 802.1x Port-Based Network Access Control and RADIUS (Remote Authentication Dial-In User Service).
 - **WPA (Wi-Fi Protected Access).** The DeskPoint Pro supports the WPA standard proposed by the Wi-Fi Alliance (<http://www.wi-fi.org>). Both WPA-PSK (Pre-Shared Key) mode and full WPA mode are supported. WPA is composed of TKIP (Temporal Key Integrity Protocol) and IEEE 802.1x and serves as a successor to WEP for better WLAN security.
 - **WPA2 (Wi-Fi Protected Access 2).** This advanced protocol implements the mandatory elements of 802.11i. WPA2 is an improvement on the WPA-PSK standard, and is simply using a shared password for access to your network. Only users with this password can access your network.
 - **Client isolation.** Wireless-to-wireless traffic can be blocked so that the wireless clients cannot see each other. This function also blocks wired clients from accessing Wireless clients.
 - **Transmit power control.** Transmit power of the DeskPoint Pro's RF module can be adjusted to change RF coverage.
 - **Associated wireless clients status.** The DeskPoint Pro can show the status of all wireless

clients that are associated with the it.

- **DHCP client.** The DeskPoint Pro can automatically obtain an IP address from a DHCP server.
- **Firmware Tools**
 - **Firmware upgrade.** The firmware can be upgraded by HTTP (Hyper Text Transfer Protocol).
 - **Configuration backup.** The configuration settings can be backed up to a file via HTTP for later restoring.
 - **Configuration reset.** Resetting the configuration settings to factory-default values.
- **Management**
 - **Web-based Network Manager** for configuring and monitoring the DeskPoint Pro via a Web browser (Internet Explorer, Firefox or Google Chrome). The management protocol is HTTP (Hyper Text Transfer Protocol)-based.
 - **SNMP.** SNMP (Simple Network Management Protocol) MIB I, MIB II, IEEE 802.1d, IEEE 802.1x, and Private Enterprise MIB are supported.
 - **System log.** For system operational status monitoring.
 - ◆ **Local log.** System events are logged to the on-board RAM of the DeskPoint Pro and can be viewed using a Web browser.
 - ◆ **Remote log by SNMP trap.** Systems events are sent in the form of SNMP traps to a remote SNMP management server.
- **USB Charging 5V** for charging mobile devices

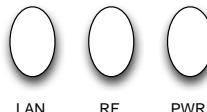
2. Installation

This section offers information about installing your DeskPoint Pro.

2.1. LED Definitions

2.1.1. TA-6950C and TA-7950C

At the front of the device, there are 3 LED indicators. Each LED indication is described as below:

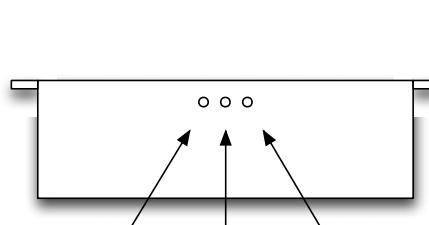


The Front LEDs of TA-6950C/TA-7950C

LED	State	Description
PWR	ON	Power on
RF	ON	RF on and blink every second
	OFF	RF off
LAN	ON	LAN on
	Flashing	Throughput is busy
	OFF	LAN off

2.1.2. TA-8050C

On top of the device, there are LED indicators. Each LED indication is described as below:



The Front LEDs of TA-8050C

LED	State	Description
PWR	ON	Power on
RF	ON	RF on and blink every second
LAN	ON	LAN on
	Flashing	Throughput is busy
	OFF	LAN off

2.2. Connections

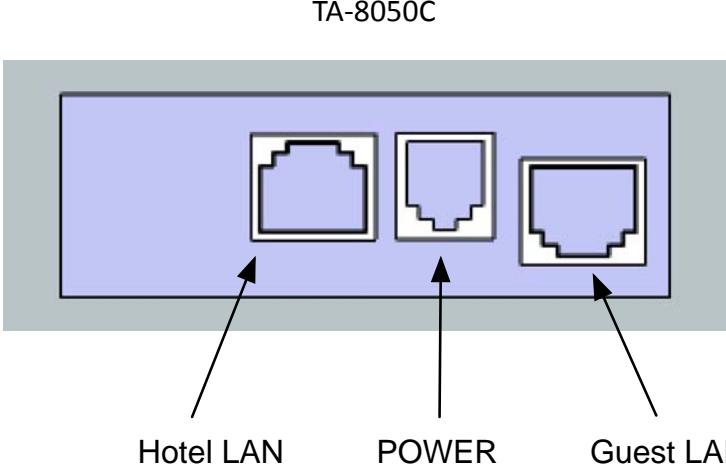
2.2.1. TA-6950C and TA-7950C

TA-6950C/TA-7950C	
Connector	Description
Power	Power connector with 5V/2A
Hotel LAN	Wired connection to hotel network
Guest LAN	Wired connection for Guest access

The TA-6950C and TA-7950C also provide a wired Guest LAN interface just above the indicator LEDs. For the TA-6950C this is a retractable spool, for the TA-7950C this is an RJ45 socket.

Both TA-6950C and TA-7950C also provide a USB socket that can provide up to 5V/1A for charging mobile devices.

2.2.2. TA-8050C



The diagram shows a top-down view of the TA-8050C unit. It features a light blue rectangular panel with three ports. From left to right: a standard 8-pin RJ45 port labeled 'Hotel LAN', a circular power connector labeled 'POWER', and another standard 8-pin RJ45 port labeled 'Guest LAN'. Arrows point from the labels 'Hotel LAN', 'POWER', and 'Guest LAN' to their respective ports on the panel. The entire unit is labeled 'TA-8050C' at the top.

Connector	Description
Hotel LAN	Wired connection to hotel network
POWER	Power connector with 5V/2A
Guest LAN	Wired connection for Guest access

2.3. Hardware Reset

The reset button can be found on the bottom of the unit. To restart the unit press the button for less than 5 seconds. To perform a factory reset press and hold the reset button for a minimum of 20 seconds.

3. Configuring the DeskPoint Pro

Before configuring the DeskPoint Pro, you need to know the connection information supplied by your service provider and the field application environment.

3.1. Preparing for Configuration

To configure the DeskPoint Pro, a computer with a web browser is needed. For the first-time or maintenance configuration of the DeskPoint Pro, an Ethernet network interface card (NIC) should have been installed in the managing computer.

Since the configuration/management protocol is HTTP-based, you have to make sure that the IP address of the managing computer and the IP address of the managed DeskPoint Pro are in the same IP subnet (the default IP address of the DeskPoint Pro is **192.168.0.1** and the default subnet mask is **255.255.255.0**.)

3.2. Connecting the Managing Computer

Using Ethernet Cable to connect the managing computer and the Wireless 11n Access Point as following figure shows. One end of the Ethernet cable must be plugged into the **Hotel LAN** Ethernet jack of the DeskPoint Pro for configuration.

3.3. Changing the TCP/IP Settings of the Managing Computer

Use the **Windows Network Control Panel Applet** to change the TCP/IP settings of the managing computer, so that the IP address of the computer and the IP address of the DeskPoint Pro are in the same IP subnet. Set the IP address of the computer to **192.168.0.xxx** (the default IP address of the DeskPoint Pro is **192.168.0.1**) and the subnet mask to **255.255.255.0**.

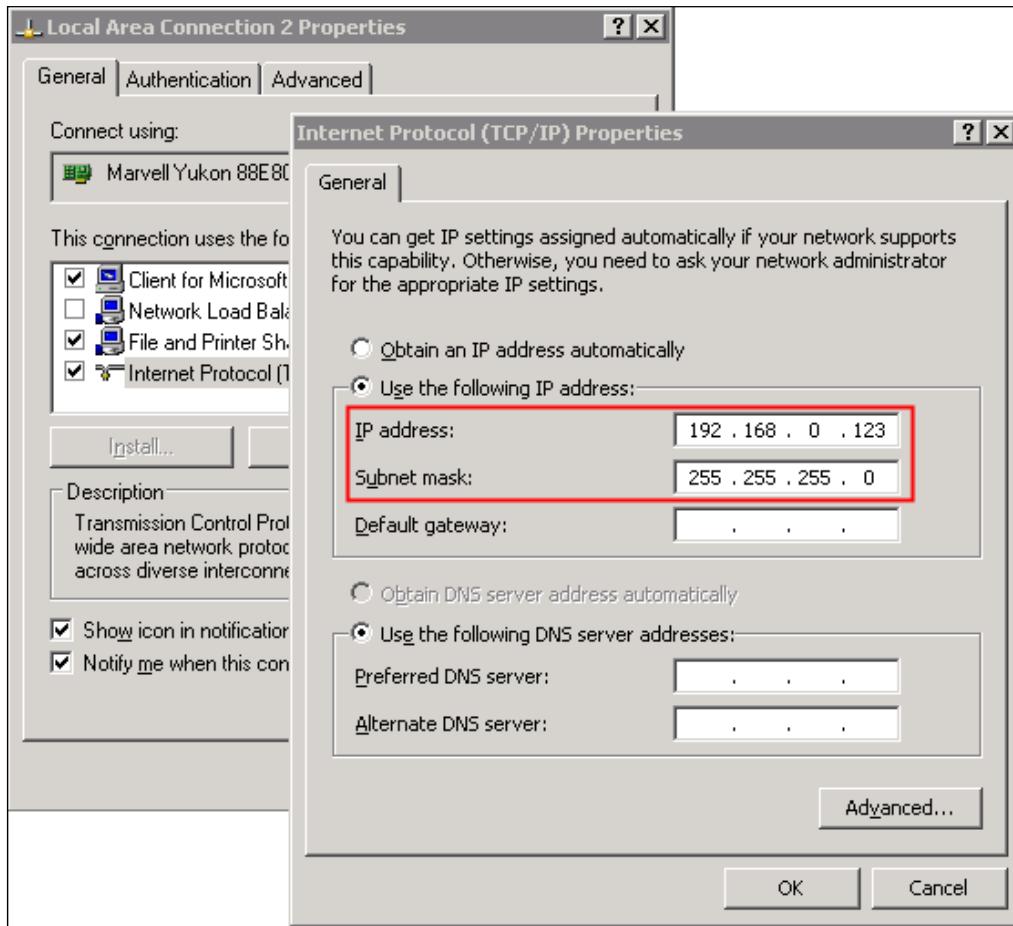


Fig 1. An example of Internet Protocol (TCP/IP) Properties in Microsoft Windows

NOTE:	For some versions of Windows, the computer needs to be restarted for the changes of TCP/IP settings to take effect.
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3.4. Default User Name and Password

The default user name is 'root' and the default password is 'root'.

4. Web Configuration

NOTE: All management services on the DeskPoint Pro are restricted so they are only accessible via the Hotel LAN port.

4.1. Summary

Site contents:

- Summary
- Management
- TCP/IP Settings
- Wireless
- Status
- Logout
- Reboot

Summary

This page shows the current status and some basic settings of the device.

System	
Uptime	0day:0h:1m:5s
BIOS Version	APXR-8196
Firmware Version	6.7.1.2
Build Time	Wed Oct 26 18:47:13 CST 2011

Wireless Configuration	
Band	2.4 GHz (B+G+N)
Current Regulatory Domain	ETSI (Europe)
Current SSID	DeskPoint2
Current Channel Number	Auto (1)
Encryption	Disabled
BSSID	80:ba:ac:01:07:3f
Associated Clients	0

TCP/IP Configuration	
Attain IP Protocol	DHCP
IP Address	192.168.1.50
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DHCP Server	192.168.1.1
DNS1	192.168.1.195
DNS2	195.40.1.36
MAC Address	80:ba:ac:01:07:3f

goahead
WEB SERVER

Fig 2. The Summary page

4.1.1. Menu Structure

The left side of the Home page contains a menu for you to carry out commands. Here is a brief description of the hyperlinks on the menu:

- **Summary.** For configuration setting summary.
- **Management.** System monitoring information
 - **Firmware Tools.** For upgrading the firmware of the DeskPoint Pro and backing up and restoring configuration settings of the DeskPoint Pro.
 - **System Setting.** For changing the account info and web access info for the web server of the DeskPoint Pro.
 - **System Tools.** Ping Tool, ARP Tool and trace route tool.
 - **Time Zone.** Time zone and SNTP (Simple Network Time Protocol) server settings.
 - **SNMP.** Simple Network Management Protocol (SNMP) agent settings and SNMP trap

table.

- **TCP/IP.** TCP/IP-related settings.
 - **LAN.** IP addressing settings for the DeskPoint Pro.
 - **VLAN Tag.** settings.
- **Wireless.** IEEE 802.11n-related settings.
 - **Basic Settings.** Basic settings for the IEEE 802.11b/g/n interface of the DeskPoint Pro to work properly with wireless clients.
 - **Advanced Settings** Advanced settings for the more technically users who have a sufficient knowledge about the Wireless LAN.
 - **Security.** Security settings for authenticating wireless users and encrypting wireless data. Include the IEEE 802.1x Port-Based Network Access Control and RADIUS (Remote Authentication Dial-In User Service) settings for better wireless security.
 - **Access Control.** Wireless Access Control settings.
- **Status.** System monitoring information.
 - **Network Status.** Shows the packet counters for transmission and reception regarding to wireless and Ethernet networks.
 - **System Log.** System events log.
 - **Active Clients.** Display the status of all wireless clients who associated to the DeskPoint Pro.
- **Logout.** The Logoff page.

4.1.2. Apply Changes, Reset, Reboot and Continue Commands

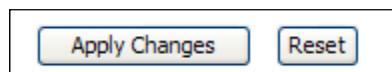


Fig 3. Apply Changes and Reset.

Normally at the bottom of each setting page, there are two buttons—**Apply Changes** and **Reset**. Clicking **Apply Changes** stores the settings changes to the memory of the DeskPoint Pro and brings you back to the next page to choose the next step. Clicking **Reset** discards any settings changes and brings you back to the start page.

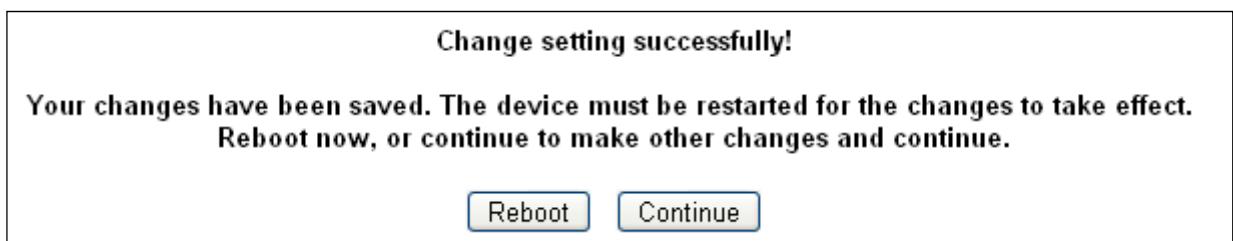


Fig 4. Save, Save & Restart, and Cancel.

Clicking **Reboot** to restarts the DeskPoint Pro immediately for the settings changes to take effect.

Clicking **Continue** moves to other page for change other settings.

4.1.3. Refresh and Clear Commands



Fig 5. Refresh and Clear

At the bottom of each status page that shows read-only information, Clicking **Refresh** updates the shown status information. And in the System log page the **Clear** immediately clean system log.

4.1.4. Logout Commands



Fig 6. Logoff Page

The page provide user to log off the Web management immediately. User needs apply account and password again if they want to login again.

4.2. Firmware Tools

Firmware management operations for the DeskPoint Pro include **firmware upgrade**, configuration backup (**Load Settings**), configuration restore (**Save Settings**), and configuration reset (**Load Factory Default**). Firmware upgrade, configuration backup, and configuration restore can be achieved via HTTP or TFTP. Due to different behavior of different Web browser types and versions, HTTP-based firmware management operations may not work properly with some Web browsers.



Fig 7. Firmware Management via HTTP

When using TFTP as the firmware management protocol, you can configure settings the DeskPoint Pro's TFTP client to communicate with a TFTP server. Ensure that the TFTP Server IP uses the same subnet to prevent errors arising.



Fig 8. Firmware management via TFTP

Below screen capture is the TFTP Server in Windows XP, the TftpSrvr.

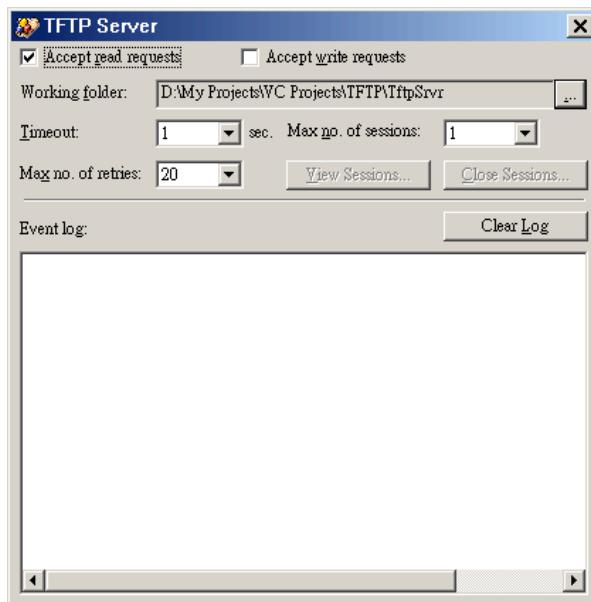


Fig 9. TFTP Server

Note:

1. After the dialog box of the TFTP server program appears, be sure to specify the working folder within which the downloaded firmware files reside.
2. Make sure the Accept read requests check box of TFTP Server is selected.
3. The LAN IP address of the DeskPoint Pro and the IP address of the TFTP server must be in the same IP subnet for TFTP to work.
4. After the firmware is upgraded, be sure to delete the contents of the Web browser cache, so that the Web management pages can be shown correctly.
5. A failed upgrade may corrupt the firmware and make the DeskPoint Pro inaccessible.

4.2.1. Upgrading Firmware by HTTP or TFTP



Fig 10. Firmware upgrade by HTTP

To upgrade firmware of the DeskPoint Pro via HTTP:

1. Click **Browse** and then select a correct firmware **.bin** file. The firmware file path will be shown in the Firmware file name text box.
2. Click **Upgrade** to begin the upgrade process.

The screenshot shows a 'FIRMWARE UPGRADE' interface. At the top, there is a grey header bar with the text 'FIRMWARE UPGRADE'. Below it, the main area has a label 'File Name:' followed by an input field containing the text 'upgradefile.bin'. Underneath the input field are two buttons: 'Upload' on the left and 'Reset' on the right.

Fig 11. Firmware upgrade by HTTP

To upgrade firmware of the DeskPoint Pro via TFTP:

1. Setting TFTP **Server IP** and then type a correct firmware **.bin** file.
2. The firmware file will be shown in the Firmware file name text box.
3. Click **Upgrade** to begin the upgrade process.

4.2.2. Load Settings by HTTP or TFTP

The screenshot shows a 'LOAD SETTINGS' interface. At the top, there is a grey header bar with the text 'LOAD SETTINGS'. Below it, the main area has a label 'Load Settings from File:' followed by an input field and a 'Browse' button. Underneath the input field are two buttons: 'Upload' on the left and 'Reset' on the right.

Fig 12. Load Settings via HTTP

To Load setting of the device via HTTP:

1. Click **Browse** and then select a correct firmware **.dat** file. You have to make sure the file name is the Device's MAC address. The configuration file path will be shown in the Firmware file name text box.
2. Click **Upload** to upload the configuration file to the device.

The screenshot shows a 'LOAD SETTINGS' interface for TFTP. At the top, there is a grey header bar with the text 'LOAD SETTINGS'. Below it, the main area has a label 'File Name:' followed by an input field. Underneath the input field are two buttons: 'Upload' on the left and 'Reset' on the right.

Fig 13. Load Settings via TFTP

To Load setting of the device via TFTP:

1. Setting TFTP **Server IP** and then type a correct configure file. The default upload file name is **MACName.dat**.
2. The firmware **.dat** file will be shown in the Firmware file name text box.
3. Click **Upload** to upload the configuration file to the device.

4.2.3. Save Settings by HTTP or TFTP



Fig 14. Save the configuration file

To back up configuration of the device via HTTP or TFTP:

1. You'll be prompted to open or save the configuration file. Click **Save**.
2. The configuration file is named by the DeskPoint Pro's MAC address. For example, if the DeskPoint Pro's MAC address is 00-01-02-aa-bb-cc, the configuration backup file should be "000102aabbcc.dat". Don't change the configuration file name in the **Save As** dialog box. Select a folder in which the configuration file is to be stored. And then, click Save.

NOTE:

1. The procedure may be a little different with different Web browsers.
2. Please make sure open "Accept access requests" in the tftp server

4.2.4. Resetting Configuration to Factory Defaults

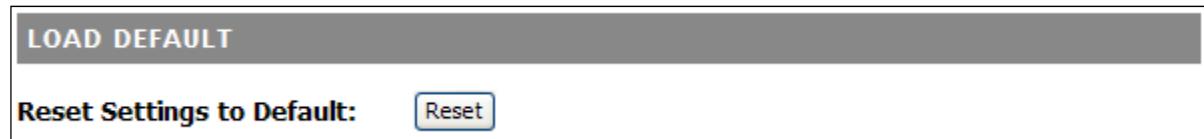


Fig 15. Resetting configuration to Factory Defaults

Clicking the **Reset** button resets the device configuration to factory defaults.

WARNING: Check before clicking the **Reset** button as you will lose all your current configuration settings.

4.2.5. Resetting Configuration to Factory Defaults



Fig 16. Restart the system

Clicking the **Reboot** button to restart the device and waiting 40 to 60 seconds.

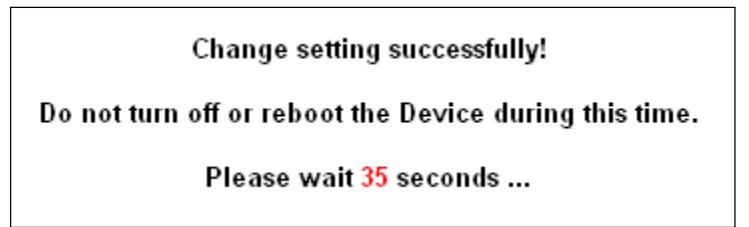


Fig 17. Restart the system

4.3. System Settings

PASSWORD SETTING	
User Name:	<input type="text"/>
New Password:	<input type="text"/>
Confirmed Password:	<input type="text"/>

Fig 18. Manager name and password settings

You can change the User Name and Password of Administrator (Manager) in the function.

4.3.1. Web Management – secure and idle timeout

WEB MANAGEMENT	
Secure management:	HTTP & HTTPS
HTTP Port	80 (default:80)
HTTPS Port:	443 (default:443)
Web Admin Idle Timeout:	10 (0~10080 mins, 0:no idle timeout)

Fig 19. Web Management setting

On this page, you could change the Web Management in HTTP, HTTPS or HTTP&HTTPs both. The administrator can view and modify the configuration of the DeskPoint Pro. The new password must be typed twice for confirmation. If you want use SSL to protect and manage the device, you can select HTTPS for Secure management, https default port number is 443 and http is 80.

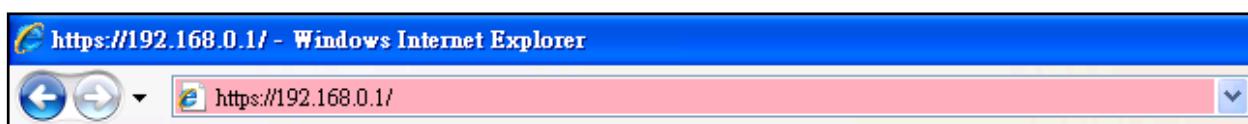


Fig 20. URL box on IE Browser, use https:// for SSL protection.

The setting specifies how long the idle time during which the WEB administrator connection is maintained during inactivity. The default value is 10 minutes.

	HTTPS (Hyper text Transfer Protocol over Secure Socket Layer) is a URI scheme used to indicate a secure communication such as payment transactions and corporate
--	--

Note: information systems. HTTPS is not a separate protocol, but refers to the combination of a normal HTTP interaction over an encrypted Secure Sockets Layer (SSL) or Transport Layer Security (TLS) connection. This ensures reasonable protection from eavesdroppers but is weak with man-in-the-middle attacks.

4.4. System Tools

4.4.1. Ping

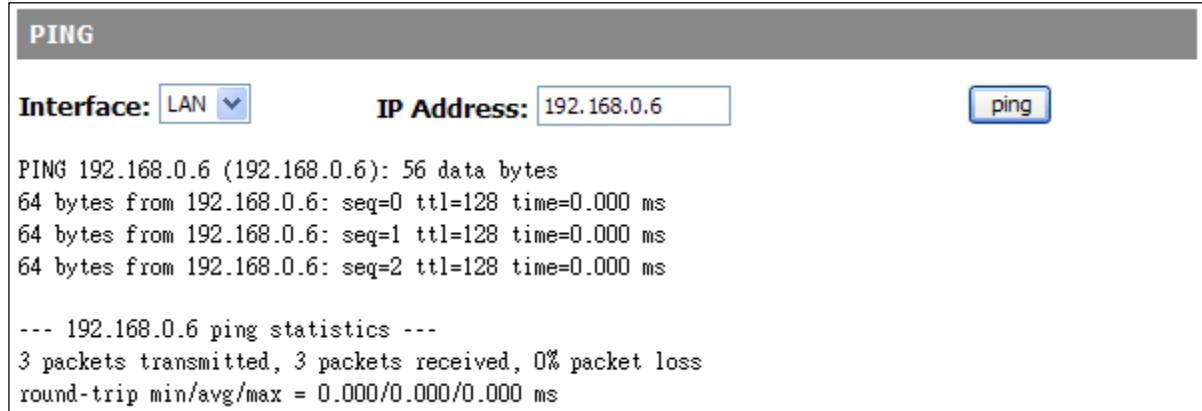


Fig 21. Ping Tool

The function will help you to respond to ping requests from a device on Ethernet or Wide Area Network that are sent to LAN IP.

4.4.2. Arping



Fig 22. Arping Tool

Arping is a function which is similar in function to ping requests from a device on Ethernet that are sent to LAN IP, but it operates using Address Resolution Protocol (ARP) instead of Internet Control Message Protocol.

4.4.3. Traceroute

TRACEROUTE

Interface: LAN

Trace Number: 20 (max:50)

IP:

Url:

```

traceroute to google.com (64.233.183.105), 20 hops max, 38 byte packets
1 192.168.168.1 10.000 ms 0.000 ms 0.000 ms
2 59.120.41.254 40.000 ms 30.000 ms 40.000 ms
3 168.95.84.218 30.000 ms 30.000 ms 40.000 ms
4 220.128.5.54 30.000 ms 211.22.36.50 30.000 ms 220.128.5.54 40.000 ms
5 220.128.1.110 40.000 ms 220.128.2.170 40.000 ms 220.128.3.22 30.000 ms
6 220.128.4.181 40.000 ms 220.128.1.121 40.000 ms 30.000 ms
7 220.128.3.249 40.000 ms 220.128.4.249 30.000 ms 220.128.3.249 30.000 ms
8 203.75.135.38 40.000 ms 30.000 ms 40.000 ms
9 209.85.243.26 30.000 ms 40.000 ms 40.000 ms
10 209.85.250.103 30.000 ms 40.000 ms 209.85.243.23 30.000 ms
11 72.14.238.226 50.000 ms 40.000 ms 30.000 ms
12 64.233.183.105 40.000 ms 40.000 ms 40.000 ms

```

Fig 23. Traceroute Tool

The Internet is a large and complex aggregation of network hardware, connected together by gateways. Traceroute utilizes the IP protocol time to live field and attempts to elicit an ICMP TIME_EXCEEDED response from each gateway along the path to some host. This tool is intended for use in network testing, measurement and management. **IP** or **URL** is available. To use URL set IP interface to DHCP. The results show the hop addresses numerically rather than symbolically and numerically.

4.5. Time Zone Settings

DeskPoint Pro can maintain the system time by synchronizing with a public time server over the Internet. To schedule a periodic reboot, you can enter the day, hour and min for the system.

4.5.1. NTP Settings

In this section, you can set time manually and enable/disable Daylight Saving Time and synchronization of time upgrading.

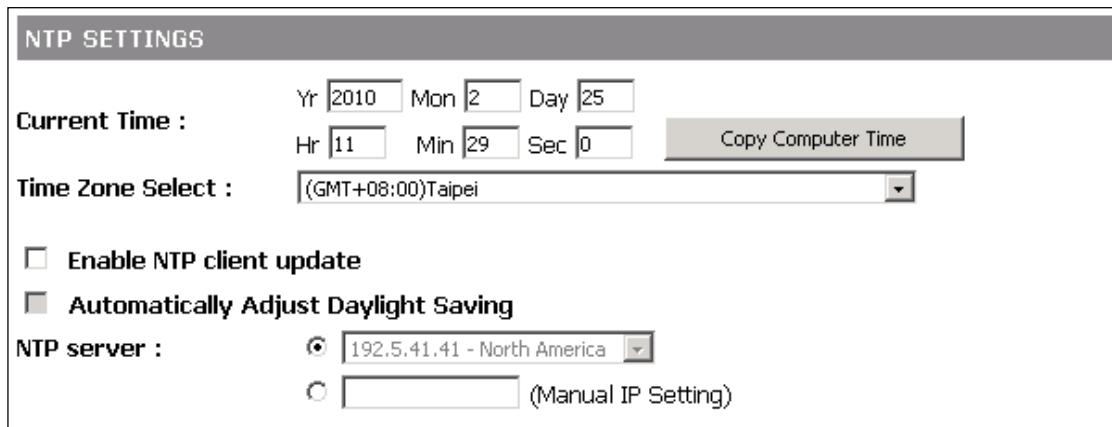


Fig 24. Daylight Saving Time setting

4.5.2. Periodic Reboot

In this section, you can set a time to order the device to reboot itself automatically.

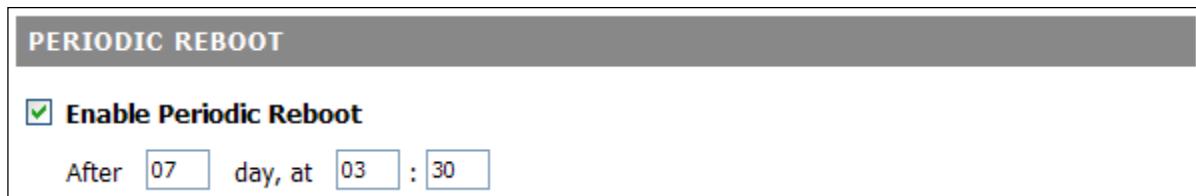


Fig 25. Periodic Reboot setting

4.6. SNMP

4.6.1. SNMP V1 & V2

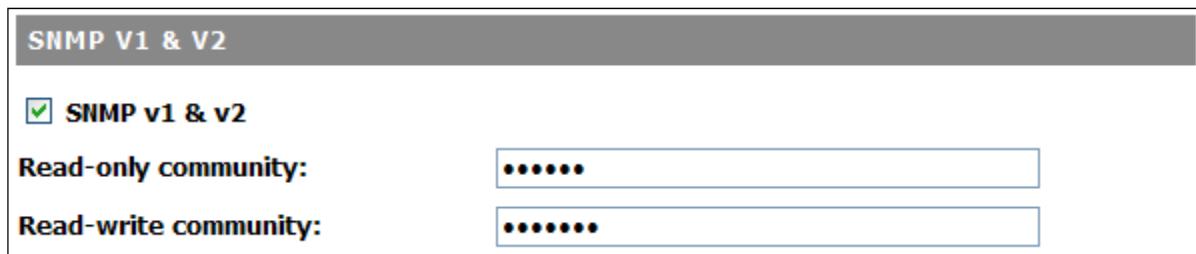
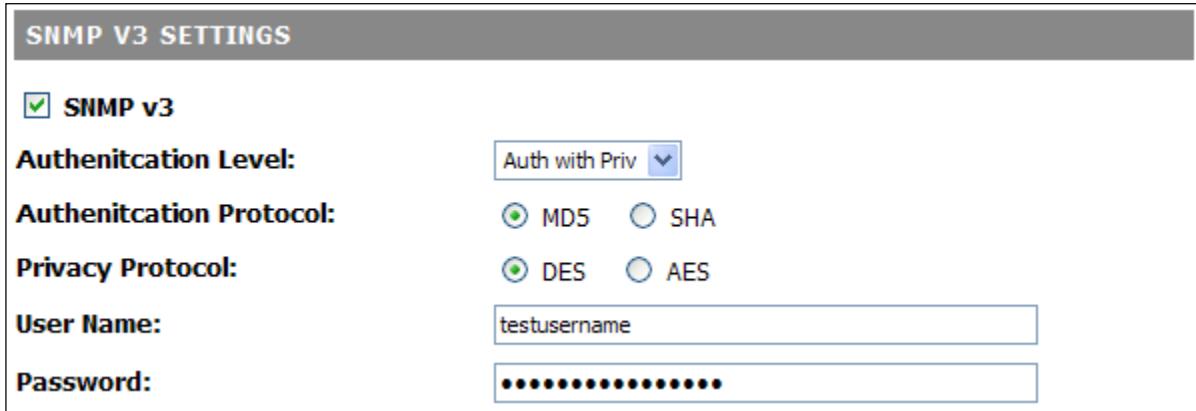


Fig 26. SNMP settings

The DeskPoint Pro can be managed by SNMP (Simple Network Management Protocol) and the SNMP management functionality can be disabled. You can specify the name (used as a *password*) of the read-only and read-write community.

4.6.2. SNMP V3 Settings



SNMP V3 SETTINGS

SNMP v3

Authenitcation Level:

Authenitcation Protocol: MD5 SHA

Privacy Protocol: DES AES

User Name: testusername

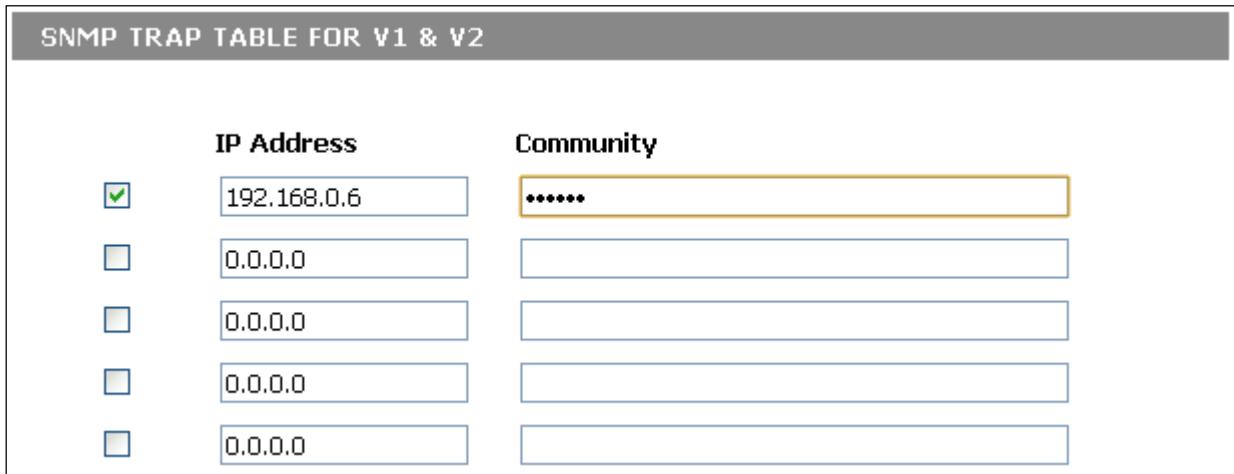
Password: *****

Fig 27. SNMP settings

SNMPv3 primarily added security and remote configuration enhancements to SNMP. There are three modes in the Authentication Level. **No Auth**, **Auth** and **Auth with priv**. Only input the User Name in No Auth mode. Select the Authentication Protocol and apply the user name /password in the Auth Mode. Select the authentication protocol and privacy protocol if choose the Auth with Priv mode.

Authentication Level	Authentication Protocol	Privacy Protocol	User Name	Password
No Auth	X	X	<input type="radio"/>	X
Auth	<input type="radio"/>	X	<input type="radio"/>	<input type="radio"/>
Auth with Priv	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4.6.3. SNMP TRAP TABLE FOR V1 & V2



SNMP TRAP TABLE FOR V1 & V2

IP Address	Community
<input checked="" type="checkbox"/> 192.168.0.6	*****
<input type="checkbox"/> 0.0.0.0	

Fig 28 SNMP settings

Up to 5 SNMP (Simple Network Management Protocol) traps can be set in the SNMP Trap Table if SNMP V1/V2 is enabled.

To specify a trap target:

1. Type the **IP address** of the target host.
2. Type the **Community** for the host.
3. Select the corresponding **check box** next to the IP address text box.

4.7. Configuring TCP/IP Related Settings

4.7.1. LAN

LAN Interface

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP addresss, subnet mask, DHCP, etc..

DHCP:	<input style="border: 1px solid black; padding: 2px 10px;" type="button" value="Client"/>
IP Address:	<input style="border: 1px solid black; width: 150px; height: 25px;" type="text" value="192.168.0.1"/>
Subnet Mask:	<input style="border: 1px solid black; width: 150px; height: 25px;" type="text" value="255.255.255.0"/>
Default Gateway:	<input style="border: 1px solid black; width: 150px; height: 25px;" type="text" value="0.0.0.0"/>
DNS 1:	<input style="border: 1px solid black; width: 150px; height: 25px;" type="text"/>
DNS 2:	<input style="border: 1px solid black; width: 150px; height: 25px;" type="text"/>
Client Isolation (Wireless & Wire):	<input style="border: 1px solid black; padding: 2px 10px;" type="button" value="Disabled"/> <input checked="" type="checkbox"/> 802.1d Spanning Tree

Fig 29. LAN settings

You can either use DHCP or Static IP for your TCP/IP LAN Settings. When manually set the **IP address**, **Subnet mask**, and **Default gateway** settings, set them appropriately, so that they comply with your LAN environment. Above setting is for static LAN IP, setting the **DHCP Disabled**. If Setting **DHCP Client** mode it mean DeskPoint Pro will automatically obtain an IP address from a DHCP server.

Client Isolation blocks traffic between wired and wireless clients of the DeskPoint Pro. In a hotel environment it is generally desirable to enable this setting to ensure guest privacy. Note however that the DeskPoint Pro will not block traffic between wired and wireless clients connected to different DeskPoint Pro's, this function must be performed by the network infrastructure.

Note:	Spanning Tree Protocol is an OSI layer-2 protocol that ensures a loop-free topology for any bridged LAN. Spanning tree allows a network design to include spare (redundant)
--------------	--

	links to provide automatic backup paths if an active link fails, without the danger of bridge loops, or the need for manual enabling/disabling of these backup links. Bridge loops must be avoided because they result in flooding the network.
--	---

4.7.2. VLAN Tag

VLAN Settings

If Enable VLAN is selected then the Hotel LAN Port (LAN 0) will be designated as an 801.11Q trunk and VLAN operation is enabled.

When VLAN is enabled, all ports other than LAN 0 are untagged and can belong to one VLAN only, their VID being changeable as required on a port by port basis. Any packets received on LAN 0 must have a VLAN header and will only be passed to the destination port if the VID matches. Any packets originating on ports other than LAN 0 will have a VLAN header added with the VID set as defined.

Ports can also have a priority (PCP) set where 0 is the lowest priority and 7 is the highest.

Enable VLAN

Enable	Secure/Destination Port	VLAN Tag - VID (1~4094)	Priority PCP (0~7)
<input checked="" type="checkbox"/>	Management	1	7 ▾
<input type="checkbox"/>	Guest LAN (LAN1)	1	0 ▾
<input type="checkbox"/>	Primary SSID	1	0 ▾
<input type="checkbox"/>	Virtual SSID 1	1	0 ▾
<input type="checkbox"/>	Virtual SSID 2	1	0 ▾
<input type="checkbox"/>	Virtual SSID 3	1	0 ▾
<input type="checkbox"/>	Virtual SSID 4	1	0 ▾

When VLAN tagging is enabled then the Hotel LAN port will become an 802.1Q trunk. The Web management (or SNMP), Guest LAN and Primary SSID can all be assigned a VLAN tag to allow the network switch to identify and route tagged connection. If multiple Aps are configured then each additional SSID (AP) can also have it's own assigned VLAN tag. The priority bits of each VLAN can also be assigned to allow the network to prioritise particular VLANs.

4.8. Configuring IEEE 802.11-Related Settings

4.8.1. Basic Settings

4.8.1.1. Wireless Basic Settings

Wireless Basic Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

<input type="checkbox"/>	Disable Wireless LAN Interface
Band:	2.4 GHz (B+G+N) <input type="button" value="▼"/>
Multiple AP:	Multiple AP <input type="button"/>
SSID:	DeskPoint2 <input type="text"/>
Regulatory Domain:	ETSI (Europe) <input type="button" value="▼"/>
Channel Number:	Auto <input type="button" value="▼"/>
Data Rate:	Auto <input type="button" value="▼"/>
Channel Width:	<input checked="" type="radio"/> 20MHz <input type="radio"/> 40MHz
Control Sideband:	<input checked="" type="radio"/> Upper <input type="radio"/> Lower
<input checked="" type="checkbox"/> Broadcast SSID	
<input checked="" type="checkbox"/> WMM	
<input type="button" value="Apply Changes"/> <input type="button" value="Reset"/>	

Fig 30. Basic IEEE 802.11 communication Setting of WLAN

The wireless interface can be enabled or disabled. By default it is enabled.

You can choose one **Band** as follows:

- 2.4GHz (B): 802.11b supported rate only.
- 2.4GHz (G): 802.11g supported rate only.
- 2.4GHz (N): 802.11n supported rate only.
- 2.4GHz (B+G): 802.11b supported rate and 802.11g supported rate.
- 2.4GHz (G+N): 802.11g supported rate and 802.11n supported rate.
- 2.4GHz (B+G+N): 802.11b, 802.11g and 802.11n supported rate.

The default is 2.4GHz (B+G+N) mode.

The DeskPoint Pro can support 4 additional SSIDs. Select this option to enable and configure the basic wireless settings for each virtual SSID (band, SSID, data rate, broadcast SSID and WMM). You

can also view the active client list for each SSID.

Since the DeskPoint Pro is also IEEE 802.11b and IEEE802.11g compatible, you can configure the **Date Rate** setting to meet your backwards compatibility needs. If there is RF interference, you may want to reduce the **Data Rate** for more reliable wireless transmission. In most cases, leave the setting to **Auto**.

The number of available **RF channels** depends on local regulations, the regulatory domain is determined by the firmware that is loaded. The SSID of a wireless client computer and the SSID of the DeskPoint Pro must be identical for them to communicate with each other.

Broadcast SSID: Enabled; the DeskPoint Pro will broadcast its SSID to stations. And if disabled: This DeskPoint Pro will not broadcast its SSID to stations. If stations want to connect to this DeskPoint Pro, this it's SSID should be known in advance to make a connection.

WMM: The WiFi Multiple Media function is available under 2.4GHz (B), 2.4GHz (G) and 2.4GHz (B+G) band, and is disabled under 2.4GHz (N), 2.4GHz (G+N) and 2.4GHz (B+G+N) band.

4.8.1.2. 11n Setting

The 2.4GHz ISM band is fairly congested. With 802.11n, there is the option to double the bandwidth per channel to 40MHz which results in slightly more than double the data rate.

Primary Channel	20 MHz blocks	40 MHz Upper			40 MHz Lower		
		Sec. Ch.	center	blocks	Sec. Ch.	center	blocks
1	1-3	5	3	1-7	Not Available		
2	1-4	6	4	1-8	Not Available		
3	1-5	7	5	1-9	Not Available		
4	2-6	8	6	2-10	Not Available		
5	3-7	9	7	3-11	1	3	1-7
6	4-8	10	8	4-12	2	4	1-8
7	5-9	11	9	5-13	3	5	1-9
8	6-10	12	10	6-13	4	6	2-10
9	7-11	13	11	7-13	5	7	3-11
10	8-12	Not Available			6	8	4-12
11	9-13	Not Available			7	9	5-13
12	10-13	Not Available			8	10	6-13
13	11-13	Not Available			9	11	7-13

Fig 31. Basic IEEE 802.11n channel settings with 40MHz width

The specification calls for requiring one primary 20 MHz channel as well as a secondary adjacent channel spaced ± 20 MHz away. The primary channel is used for communications with clients incapable of 40 MHz mode. When in 40 MHz mode the center frequency is actually the mean of the primary and secondary channels. Since the Band is selecting 2.4GHz (N) or using any include N mode, the 20MHz/40MHz **channel width**, the channel number be suggested using form 5~11 and auto; Select 20MHz channel width the channel number will be form 1~11 and auto. And Select **Control Sideband** Upper or Lower from pull-down menu.

4.8.2. Advanced Setting

These settings are only for more advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your DeskPoint Pro and the network as a whole.

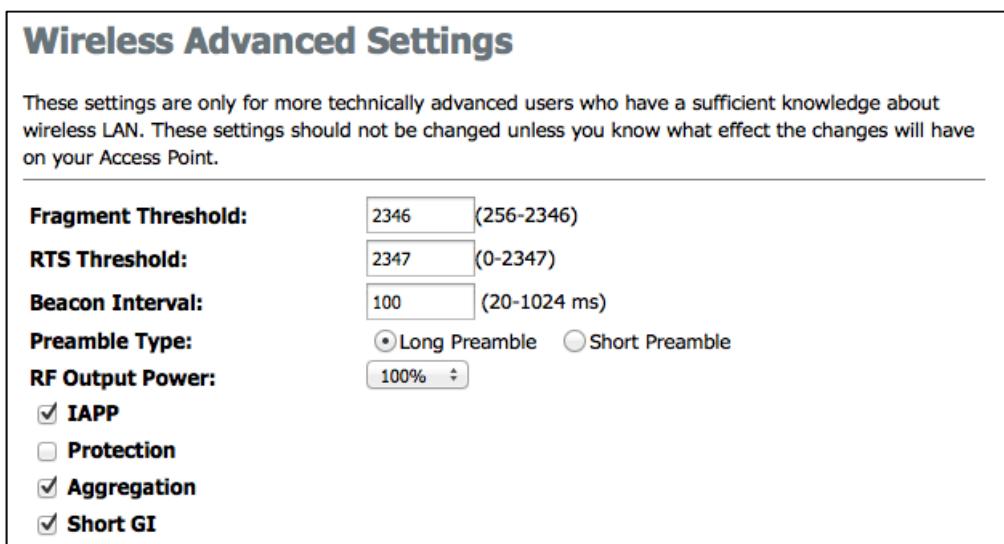


Fig 32. Advanced Setting of WLAN

Advanced settings include Fragment Threshold, RTS Threshold, Beacon Interval, Preamble Type, RF Output Power, IAPP (802.11f support), Protection, Aggregation and Short GI.

Fragment Threshold: Setting for data packet fragmentation threshold, value can be written between 256 and 2346 bytes.

RTS Threshold: Set the RTS Threshold, value can be written between 0 and 2347 bytes.

Beacon Interval: The beacon is a periodic packet the DeskPoint Pro sends out on the air to announce its presence and name (SSID). Beacon Interval represents the amount of time between beacon transmissions. Set the Beacon Interval, value can be written between 20 and 1024 ms.

Preamble Type: Click to select the Long Preamble or Short Preamble support on the wireless data packet transmission.

RF Output Power: To adjust transmission power level.

IAPP: Click to enable or disable the IAPP function.

Protection: Protect 802.11n user priority.

Aggregation: Click to enable or disable the Aggregation function.

Short GI: Click to enable or disable the short Guard Intervals function.

4.8.3. Security

IEEE 802.11 security settings include **None**, **WEP**, **WPA**, **WPA2** and **WPA2 Mixed**. The default setting is **None** (Open System). In a hotel setting a separate authentication system is generally deployed and the DeskPoint Pro would be configured without any security settings. If there is not a separate authentication system you should consider the use of WEP, WPA, WPA2 or WPA2 Mixed to prevent any unauthorized access. In this instance both the guest PC and the DeskPoint Pro must have the same settings for security.

Note, when the security mode is set to Open System, no authentication or data encryption will be performed by the DeskPoint Pro.

Also note, that when Multiple AP's have been configured you will need to configure the security settings that apply to the Primary SSID and any enabled virtual SSIDs.

- **Open System.** No authentication, no data encryption.
- **Static WEP.** WEP (Wired Equivalent Privacy) keys must be manually configured.
- **WPA-Personal (WPA-PSK)** Only TKIP (Temporal Key Integrity Protocol) mechanism of WPA (Wi-Fi Protected Access) is enabled. In this mode, you have to specify the **Pre-shared key**, which will be used by the TKIP engine as a *master key* to generate keys that actually encrypt outgoing packets and decrypt incoming packets.
- **WPA2-Personal (WPA2-PSK)** The advanced protocol, certified through Wi-Fi Alliance's WPA2 program, implements the mandatory elements of 802.11i. WPA2 is an improvement on the WPA-PSK standard, and is simply using a shared password for access to your network. Only users with this password can access your network.
- **WPA-Enterprise (WPA).** This is a full WPA mode, in which both the TKIP and IEEE 802.1x dynamic key exchange mechanisms are enabled. The DeskPoint Pro is highly secured in this mode.
- **WPA2-Enterprise (WPA2).** This is a full WPA2 mode, in which both the TKIP and IEEE 802.1x dynamic key exchange mechanisms are enabled. The DeskPoint Pro is highly secured in this mode.
- **WPA-Mixed** This is a full WPA2 mode, in which both the TKIP and IEEE 802.1x dynamic key

exchange mechanisms are enabled. The DeskPoint Pro is highly secured in this mode.

4.8.3.1. WEP

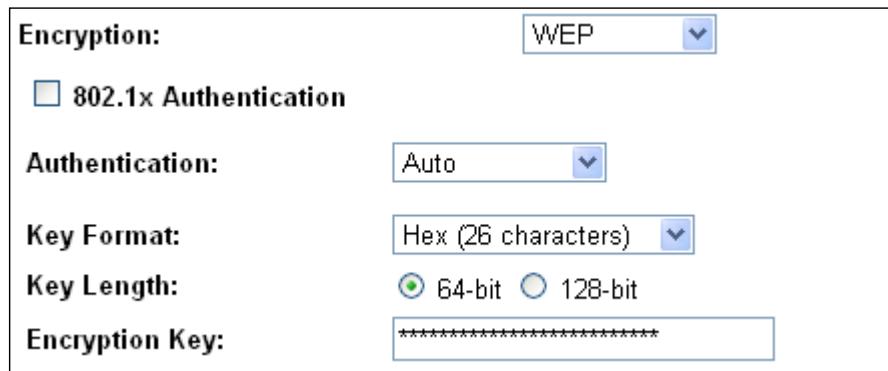


Fig 33. WEP settings

WEP is not available if 802.11n is set. According to the IEEE 802.11 standard, WEP can be used for authentication and data encryption. Normally, *Shared Key* authentication is used if WEP data encryption is enabled. In rare cases, *Open System* authentication may be used when WEP data encryption is enabled. The **Authentication algorithm** setting is provided for better compatibility with wireless client computers with various WLAN network adapters. There are three options available, including *Open System*, *Shared Key*, and *Auto*.

When WEP is enabled by a security mode, the **Key length** can be specified to be **64 Bits** or **128 Bits**. The **Selected key** setting specifies the key to be used as a *send-key* for encrypting traffic from the local device side to the remote device side.

- Key Length: select key length 64-bit or 128-bit.
- Key Format: Select the Hex (10 characters) or ASCII (5 characters).
- Hexadecimal (WEP 64 bits): 10 Hex characters (0~9, a~f).
- Hexadecimal (WEP 128 bits): 26 Hex characters (0~9, a~f).
- ASCII (WEP 64 bits): 5 ASCII characters (case-sensitive).
- ASCII (WEP 128 bits): 13 ASCII characters (case-sensitive).

Key Setting: Enter the key in the key setting field.

NOTE:	The number of characters of the Pre-shared key setting must be at least 8 and can be up to 63.
--------------	---

In the above security modes, a back-end RADIUS (Remote Authentication Dial-In User Service) server is needed if IEEE 802.1x functionality is enabled. See Section 4.8.3.5 for more information about IEEE 802.1x and RADIUS.

4.8.3.2. WPA

Encryption:	WPA
Authentication Mode:	<input type="radio"/> Enterprise (RADIUS) <input checked="" type="radio"/> Personal (Pre-Shared Key)
WPA Cipher Suite:	<input type="checkbox"/> TKIP <input checked="" type="checkbox"/> AES
Pre-Shared Key Format:	<input checked="" type="radio"/> Passphrase <input type="radio"/> HEX (64 characters)
Pre-Shared Key:	<input type="text"/>

Fig 34. WPA settings

Authentication Mode: Select Enterprise (RADIUS) or Personal (Pre-Shared Key) mode.

WPA Cipher Suite: here supported AES only.

Pre-Shared Key Format: There are two formats for choosing to set the pre-shared key, Passphrase and Hex (64 characters). If Hex is selected, users will have to enter a 64 characters string. For easier configuration, the Passphrase (at least 8 characters) format is recommended.

Pre-Shared Key: Pre-Shared Key serves as a password. Users may key in 8 to 63 characters string if you selected passphrase. Pre-shared key format to set the passwords or leave it blank, in which the 802.1x Authentication will be activated. Make sure the same password is used on client's end.

4.8.3.3. WPA2

Encryption:	WPA2
Authentication Mode:	<input type="radio"/> Enterprise (RADIUS) <input checked="" type="radio"/> Personal (Pre-Shared Key)
WPA2 Cipher Suite:	<input type="checkbox"/> TKIP <input checked="" type="checkbox"/> AES
Pre-Shared Key Format:	<input checked="" type="radio"/> Passphrase <input type="radio"/> HEX (64 characters)
Pre-Shared Key:	<input type="text"/>

Fig 35. WPA2 settings

Authentication Mode: Select Enterprise (RADIUS) or Personal (Pre-Shared Key) mode.

WPA2 Cipher Suite: supports AES only.

Pre-Shared Key Format: There are two formats for choice to set the Pre shared key, Passphrase and Hex (64 characters). If Hex is selected, users will have to enter a 64 characters string. For easier configuration, the Passphrase (at least 8 characters) format is recommended.

Pre-Shared Key: Pre-Shared Key serves as a password. Users may key in 8 to 63 characters string if you selected passphrase. Pre-shared key format to set the passwords or leave it blank, in which the 802.1x Authentication will be activated. Make sure the same password is used on client's end.

4.8.3.4. WPA-Mixed

Encryption:	WPA-Mixed
Authentication Mode:	<input type="radio"/> Enterprise (RADIUS) <input checked="" type="radio"/> Personal (Pre-Shared Key)
WPA Cipher Suite:	<input type="checkbox"/> TKIP <input checked="" type="checkbox"/> AES
WPA2 Cipher Suite:	<input type="checkbox"/> TKIP <input checked="" type="checkbox"/> AES
Pre-Shared Key Format:	<input checked="" type="radio"/> Passphrase <input type="radio"/> HEX (64 characters)
Pre-Shared Key:	<input type="text"/>

Fig 36. WPA-Mixed settings

Authentication Mode: Select Enterprise (RADIUS) or Personal (Pre-Shared Key) mode.

WPA Cipher Suite: here supported AES only.

WPA2 Cipher Suite: here supported AES only.

Pre-Shared Key Format: There are two formats for choice to set the Preshared key, Passphrase and Hex (64 characters). If Hex is selected, users will have to enter a 64 characters string. For easier configuration, the Passphrase (at least 8 characters) format is recommended.

Pre-Shared Key: Pre-Shared Key serves as a password. Users may key in 8 to 63 characters string if you selected passphrase. Pre-shared key format to set the passwords or leave it blank, in which the 802.1x Authentication will be activated. Make sure the same password is used on client's end.

4.8.3.5. Radius

IEEE 802.1x Port-Based Network Access Control is a standard for solving some security issues associated with IEEE 802.11, such as lack of user-based authentication and dynamic encryption key distribution. With IEEE 802.1x and the help of a RADIUS (Remote Authentication Dial-In User Service) server and a user account database, an enterprise or ISP (Internet Service Provider) can manage its mobile users' access to its wireless LANs. Before being granted access to a wireless LAN supporting IEEE 802.1x, a user has to issue his or her user name and password or digital certificate to the backend RADIUS server by EAPOL (Extensible Authentication Protocol Over LAN). The RADIUS server can record accounting information such as when a user logs on to the wireless LAN and logs off from the wireless LAN for monitoring or billing purposes.

An IEEE 802.1x-capable wireless access point and its RADIUS server(s) share a secret key so that they can authenticate each other. RADIUS server is needed if IEEE 802.1x functionality is enabled.

RADIUS Server IP Address:	<input type="text"/>
RADIUS Server Port:	1812
RADIUS Server Password:	<input type="text"/>

Fig 37. RADIUS settings

RADIUS Server IP Address: Enter the RADIUS Server's IP Address provided by your ISP.

RADIUS Server Port: Enter the RADIUS Server's port number provided by your ISP. The default is 1812.

RADIUS Server Password: Enter the password that the DeskPoint Pro shares with the RADIUS Server.

4.9. Viewing Status

4.9.1. Network Status Table

Network Status		
This page shows the packet counters for transmission and reception regarding to wireless and Ethernet networks.		
LAN 0 (Management)		UP
LAN 1 (Guest)		DOWN
<hr/>		
Wireless LAN	<i>Sent Packets</i>	627
	<i>Received Packets</i>	4241
	<i>Sent Bytes</i>	136059
	<i>Received Bytes</i>	481974
Ethernet LAN	<i>Sent Packets</i>	12168
	<i>Received Packets</i>	63637
	<i>Sent Bytes</i>	3931820
	<i>Received Bytes</i>	6958278

Fig 38. Wireless/Ethernet Network Status Table

On this page, the Ethernet and wireless transport status are shown.

4.9.2. Syslog

<input checked="" type="checkbox"/> Enable Log	<input type="checkbox"/> system all	<input checked="" type="checkbox"/> wireless	<input type="checkbox"/> DoS	<input type="checkbox"/> 11s
<input checked="" type="checkbox"/> Enable Remote Log				
Log Server IP Address:	192.168.0.6			

Fig 39. System Log

System events can be logged to the on-board RAM of the Deskpoint Pro (**Local log**) or **Log Server IP Address** to a remote Syslog server, respectively. See the SNMP section for more information about SNMP trap settings. Set the IP address of the Syslog server in the **Syslog server IP address** text box. The system events are divided into the following categories:

Enable Log Check to enable logging function.

System all Activates all logging functions.

Wireless Only logs related to the wireless LAN will be recorded.

DoS Only logs related to the DoS protection will be recorded.

Enable Remote Log Only logs related to the Remote control will be recorded.

Log Server IP address Only logs related to the server will be recorded.

4.9.3. Network Status

MAC Address	Mode	Tx Packet	Rx Packet	Current Tx Rate (Mbps)	Power Saving	Expired Time (s)	RSSI	Channel Width
00:e0:4c:72:00:01	11n	1286	1732	108	no	300	58 (63 56)	40M
00:0e:35:ae:c1:96	11g	30	109	54	no	289	55 (0 0) 6)	20M

Fig 40. Wireless Clients Status

On this page, the status information of each associated client, including its MAC address, IP address, user name (if the client has been IEEE 802.1x authenticated), number of bytes it has send, number of bytes it has received, and the time of its last activity, is shown.

Appendix A: Default Settings

Setting Name	Default Value
Global	
User Name	root
Password	root
IEEE 802.11G	
Regulatory Domain	Firmware dependent
Channel Number	Auto
SSID	DeskPoint2
SSID Broadcasts	Enabled
Transmission Rate	Auto
Transmit Power	100%
MAC Address	Refer to the label on the bottom of the housing
Data Encryption	Disabled
Wireless Client Isolation	Disabled
LAN Interface	
Method of obtaining an IP Address	Set manually
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
Client Isolation	Enabled
MANAGEMENT	
System Log	Local Log
SNMP	Disabled
SNMP Read-only community	public
SNMP Read-write community	private