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# COMPUTER SYSTEMS SERVICING GRADE 11

## Module 11

**“Configuring Wireless Access Point”  
(Quick Setup)**



## Computer Systems Servicing NCII – Grade 11

### Quarter 4 – Module 11: Configuring Wireless Access Point (Quick Setup)

First Edition, 2020

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# **COMPUTER SYSTEMS SERVICING NCII**

**11**

## **Quarter 4**

### **Self-Learning Module 10**

#### **Configuring Wireless Access Point (Quick Setup)**



# Introductory Message

For the facilitator:

Welcome to the **Computer Systems Servicing G11** module on 3Rs Environmental Policies. This module was collaboratively designed, developed and reviewed by educators from Schools Division Office of Pasig City headed by its Officer-In-Charge Schools Division Superintendent, Ma. Evalou Concepcion A. Agustin in partnership with the Local Government of Pasig through its mayor, Honorable Vico Sotto.

The writers utilized the standards set by the K to 12 Curriculum using the Most Essential Learning Competencies (MELC) while overcoming their personal, social, and economic constraints in schooling.

This learning material hopes to engage the learners into guided and independent learning activities at their own pace and time. Further, this also aims to help learners acquire the needed 21st century skills especially the 5 Cs namely: Communication, Collaboration, Creativity, Critical Thinking and Character while taking into consideration their needs and circumstances.

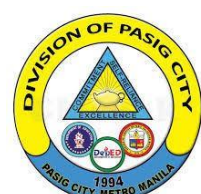
In addition to the material in the main text, you will also see this box in the body of the module:



## ***Notes to the Teacher***

This contains helpful tips or strategies that will help you in guiding the learners.

As a facilitator you are expected to orient the learners on how to use this module. You also need to keep track of the learners' progress while allowing them to manage their own learning. Moreover, you are expected to encourage and assist the learners as they do the tasks included in the module.



For the learner:

Welcome to Computer Systems Servicing NCII. The hand is one of the most symbolized part of the human body. It is often used to depict skill, action and purpose. Through our hands we may learn, create and accomplish. Hence, the hand in this learning resource signifies that you as a learner is capable and empowered to successfully achieve the relevant competencies and skills at your own pace and time. Your academic success lies in your own hands!

This module was designed to provide you with fun and meaningful opportunities for guided and independent learning at your own pace and time. You will be enabled to process the contents of the learning material while being an active learner.

This module has the following parts and corresponding icons:



**Expectation** - These are what you will be able to know after completing the lessons in the module



**Pre-test** - This will measure your prior knowledge and the concepts to be mastered throughout the lesson.



**Recap** - This section will measure what learnings and skills that you understand from the previous lesson.



**Lesson**- This section will discuss the topic for this module.



**Activities** - This is a set of activities you will perform.



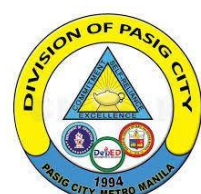
**Wrap Up**- This section summarizes the concepts and applications of the lessons.



**Valuing**-this part will check the integration of values in the learning competency.



**Post-test** - This will measure how much you have learned from the entire module. Ito po ang parts ng module





## EXPECTATIONS

After completing this lesson, you should be able to:

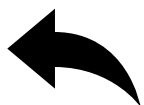
1. identify functions of Wireless Access Point;
2. understand procedures in configuring Wireless Access Point through running Quick Setup;
3. appreciate the importance in performing Quick Setup for WAP.



## PRETEST

**Directions:** Read the following statement carefully. Write **T** if the statement is correct and **F** for the wrong statement.

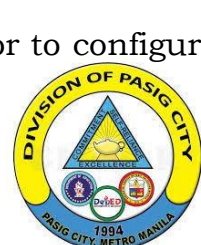
1. Connect your device to the WAP to perform configuration.
2. The default access for TPLink Access Point is **tplinkap.net**.
3. Running Quick Setup will set the basic parameters to get a connection to the internet.
4. If the WAP cannot be accessed using the default setting, you may reset it by pressing the reset button to restore its default setup.
5. It is strongly recommended that you change the factory default user name and password of the device.



## RECAP

**Directions:** Read the following statement carefully. Write **T** if the statement is correct and **F** for the wrong statement.

1. The **Status Page** displays the Router's current status and configuration.
2. TP-Link router can be set into mode as follow: Wireless Router, WISP, Access & Range Extender.
3. The wireless security function can be enabled or disabled.
4. The Wireless MAC Address Filtering feature allows you to control the wireless stations accessing the AP, which depend on the station's MAC addresses.
5. Time Settings Page allows you to set the time manually or to configure automatic time synchronization.





## LESSON

### Configuring Wireless Access Point (Quick Setup)

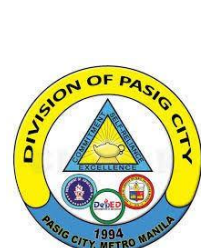
Wireless Access Point (WAP) is a network device that acts as a portal for devices to connect to a local area network. Access points are used for extending the wireless coverage of an existing network and for increasing the number of users that can connect to it.

In this module, you will learn how to configure Wireless Access Point by running Quick Setup. The following are the steps to perform basic WAP configurations through running QUICK SETUP. **Note:** The device used in this demonstration is TP-Link, but the procedures may also be applicable to other brands.

1. Connect your device to the WAP. You can do configuration wired or in wireless mode.
2. Open any browser and type the default LAN IP Address. For TPLink WAP, the default IP address can be **192.168. 1.1 or 192.168. 1.254 or 192.168. 0.254**. You can also use the default access domain by typing **tplinkap.net**.



Figure 1: TPLink WAP Default Access



NOTE 1: The default settings of the device can be seen on the device itself.

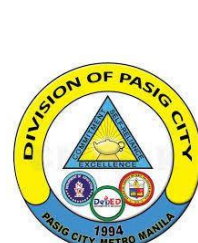


Figure 2: Sample default setting of TPLink Access Point.

NOTE 2: If the device cannot be accessed using the default setting, you may reset it by pressing the reset button to restore its default setup.

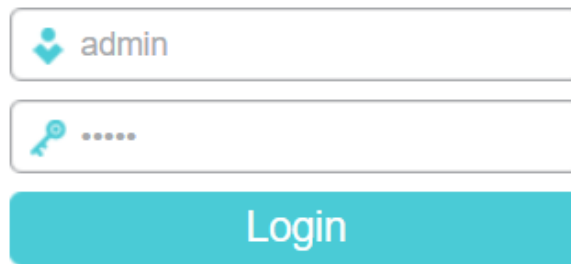


Figure 2: WAP Reset Button





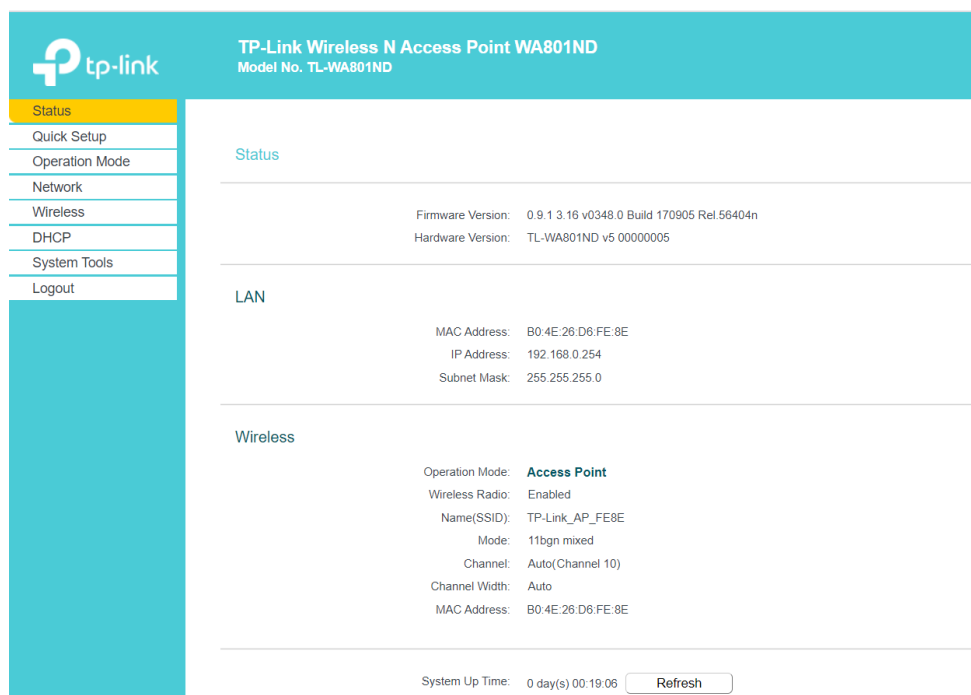
**3. Enter the default username & password.**



The log-in form consists of two input fields and a button. The first field is for the username, with a user icon and the text 'admin' entered. The second field is for the password, with a key icon and six dots. Below these fields is a large blue button labeled 'Login'.

*Figure 3: Log-in form*

Once you successfully entered the username and password, Status Page will open.



The Status Page for the TP-Link Wireless N Access Point WA801ND (Model No. TL-WA801ND) features a teal sidebar with navigation links: Status (highlighted), Quick Setup, Operation Mode, Network, Wireless, DHCP, System Tools, and Logout. The main content area displays the following information:

- Status**
  - Firmware Version: 0.9.1.3.16 v0348.0 Build 170905 Rel.56404n
  - Hardware Version: TL-WA801ND v5 00000005
- LAN**
  - MAC Address: B0:4E:26:D6:FE:8E
  - IP Address: 192.168.0.254
  - Subnet Mask: 255.255.255.0
- Wireless**
  - Operation Mode: **Access Point**
  - Wireless Radio: Enabled
  - Name(SSID): TP-Link\_AP\_FE8E
  - Mode: 11bgn mixed
  - Channel: Auto(Channel 10)
  - Channel Width: Auto
  - MAC Address: B0:4E:26:D6:FE:8E

At the bottom, it shows 'System Up Time: 0 day(s) 00:19:06' and a 'Refresh' button.

*Figure 4: Status Page*

The **Status** page displays the AP's current status and configuration. All information is read-only.

- **LAN** - The following parameters apply to the LAN port of the AP. You can configure them on the **Network -> LAN** page.
- **MAC Address** - The physical address of the AP, as seen from the LAN.
- **IP Address** - The LAN IP address of the AP.

- **Subnet Mask** - The subnet mask associated with LAN IP address.
- Wireless** - These are the current settings or information for Wireless. You can configure them in the **Wireless -> Basic Settings** page.
- **Operation Mode** - Indicates the mode which the device is working on.
  - **Wireless Radio** - Indicates whether the wireless radio feature of the AP is enabled or disabled.
  - **Name(SSID)** - The SSID of the AP.
  - **Mode** - The current wireless mode which the AP works on.
  - **Channel** - The current wireless channel in use.
  - **Channel Width** - The bandwidth of the wireless channel.
  - **MAC Address** - The physical address of the AP, as seen from the WLAN.

**System Up Time** - The length of time since the AP was last powered on or reset.

Click the **Refresh** button to get the latest status and settings of the AP.

#### 4. Quick Setup - Start

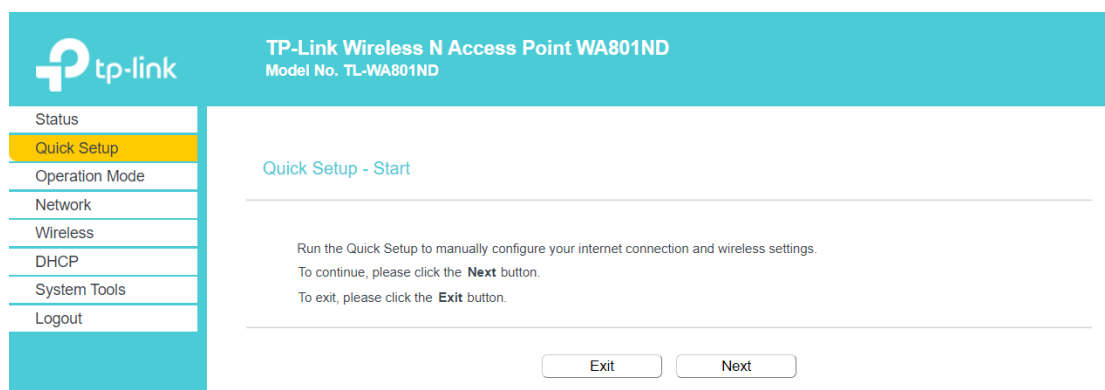


Figure 5: Quick Setup

Running Quick Setup will set the basic parameters to get a connection to the internet. Even if you are not familiar with this product, you can still finish the settings easily. If you are an expert, you can also choose to set what you want in the menu rather than to use this.

Click the **Next** button to continue.



## 5. Quick Setup - Password

The screenshot shows the TP-Link web interface for the Wireless N Access Point WA801ND (Model No. TL-WA801ND). The left sidebar contains a menu with options: Status, Quick Setup (highlighted), Operation Mode, Network, Wireless, DHCP, System Tools, and Logout. The main content area is titled 'Quick Setup - Password'. It features a checkbox labeled 'Change Login Password' which is currently unchecked. At the bottom of the main area are two buttons: 'Back' and 'Next'.

Figure 6: Quick Setup - Password

It is strongly recommended that you change the factory default user name and password of the device. All users who try to access the device's web-based utility will be prompted for the device's user name and password.

**Note:** The new user name and password must not exceed 15 characters in length and must not include any spaces. Enter the new Password twice to confirm it.

## 6. Operation Mode

The screenshot shows the TP-Link web interface for the Wireless N Access Point WA801ND (Model No. TL-WA801ND). The left sidebar contains a menu with options: Status, Quick Setup (highlighted), Operation Mode, Network, Wireless, DHCP, System Tools, and Logout. The main content area is titled 'Quick Setup - Operation Mode'. It features a section 'Choose Operation Mode:' with four radio button options: 'Access Point' (selected), 'Repeater/Bridge', 'Client', and 'Multi-SSID'. Below the 'Access Point' option is a sub-label: 'Set up Wi-Fi on an existing wired network'. At the bottom of the main area are two buttons: 'Back' and 'Next'.

Figure 7: Operation Mode

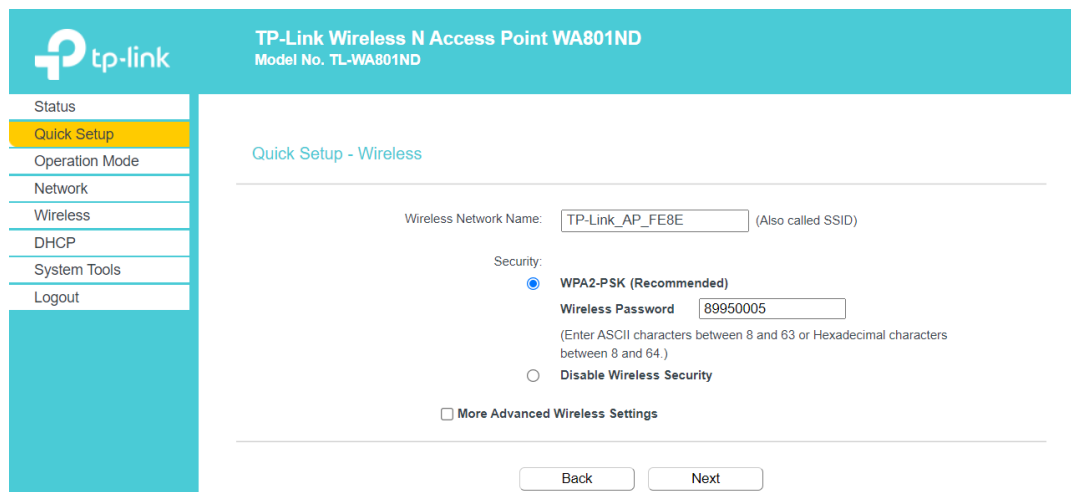
Access Point can be set in the following mode:

- **Access Point:** In this mode, this device can be connected to a wired network and transform the wired access into wireless that multiple devices can share together, especially for a home, office or hotel where only wired network is available.

- **Repeater/Bridge:** In this mode, this device can copy and reinforce the existing wireless signal to extend the coverage of the signal, especially for a large space to eliminate signal-blind corners.
- **Client:** In this mode, this device can be connected to another device via Ethernet port and act as an adaptor to grant your wired devices access to a wireless network, especially for a Smart TV, Media Player, or game console only with an Ethernet port.
- **Multi-SSID:** In this mode, this device can create up to 4 wireless networks labeled with different SSIDs and assign each SSID with different security or VLAN, especially for the situation when the various access policies and functions are required.

Choose **Access Point** then click next.

## 7. Wireless Setup



TP-Link Wireless N Access Point WA801ND  
Model No. TL-WA801ND

Quick Setup - Wireless

Wireless Network Name:  (Also called SSID)

Security:

☒ WPA2-PSK (Recommended)

Wireless Password:   
(Enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)

☐ Disable Wireless Security

☐ More Advanced Wireless Settings

Back Next

Figure 8: Quick Setup – Wireless

Set the following parameters in this page:

- **Wireless Network Name** - Enter a string of up to 32 characters. The same Name (SSID) must be assigned to all wireless devices in your network. The default SSID is set to be **TP-Link\_AP\_XXXX**(XXXX indicates the last unique four characters of each AP's MAC address),





which can ensure your wireless network security. But it is recommended strongly that you change your networks name (SSID) to a different value. This value is case-sensitive. For example, **MYSSID** is NOT the same as **MySsid**.

- **Mode** - This field determines the wireless mode which the AP works on.
- **Channel Width** - The bandwidth of the wireless channel.
- **Channel** - This field determines which operating frequency will be used. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point. If you select auto, then the AP will select the best channel automatically.

You can select one of the following security options:

- **Disable Security** - The wireless security function can be enabled or disabled. If disabled, the wireless stations will be able to connect the AP without encryption. It is recommended strongly that you choose one of following options to enable security.
- **WPA2-PSK** - Select WPA based on pre-shared passphrase.  
**Wireless Password** - You can enter **ASCII** characters. The length should be between 8 and 63 characters. Please note that the key is case sensitive.

## 8. Network Setting

TP-Link Wireless N Access Point WA801ND  
Model No. TL-WA801ND

Quick Setup - Network Setting

Type:

Note: The IP parameters cannot be configured if you have chosen Smart IP(DHCP)  
(In this situation the device will help you configure the IP parameters automatically as you need).

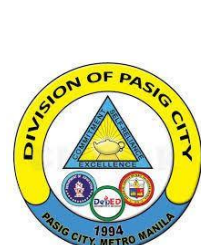
IP Address:

Subnet Mask:

We recommend you configure this AP with the same IP subnet and subnet mask, but different IP address from your root AP/Router.

DHCP Server: ☒ Enable ☐ Disable

Figure 9: Network Setting



You can configure the IP parameters of LAN on this page.

- **Type** - Choosing Smart IP to get IP address from remoter DHCP server, or choosing Static IP to config IP address manually.
- **IP Address** - Enter the IP address of your system in dotted-decimal notation (factory default: 192.168.0.254).
- **Subnet Mask** - An address code that determines the size of the network. Normally 255.255.255.0 is used as the subnet mask.
- **DHCP Server** - Enable or Disable the server. If you chose Smart IP type, the selection will be disabled. If you disable the Server, you must have another DHCP server within your network or else you must configure the IP address of the computer manually.

**Note:** If you change the IP address, you must use the new IP address to login the system.

## 9. Review Setting

TP-Link Wireless N Access Point WA801ND  
Model No. TL-WA801ND

Quick Setup - Review Setting

Congratulations! The settings is finish, please click finish button to make it work. For detailed settings, please click other menus if necessary.

Confirm the configuration you have set. If anything wrong, please go Back to reset.  
It's recommended to take a note of these settings that you'll need later for reference.

Wireless Settings

Operation Mode: Access Point  
Wireless Channel: Auto  
Wireless Network Name (SSID): TP-Link\_AP\_FE8E  
Wireless Security Mode: WPA2-PSK  
Wireless Password: 89950005

LAN Settings

Default Access: http://tplinkap.net  
LAN Type: Smart DHCP

Back Finish

Figure 10: Review Setting

This part is where you will review all the changes you made. Click **Back** to return to the previous page. Click **Finish** to finish the quick setup.





## VALUING

**DIRECTION:** Read the following question/s carefully. State your answer in two to three sentences each number on the space provided.

What do you think are the importance of understanding the procedures in configuring Access Point through Quick Setup?

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## POST TEST

**Directions:** Read the following statement carefully. Write **T** if the statement is correct and **F** for the wrong statement.

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5. It is strongly recommended that you change the factory default user name and password of the device.



## KEY TO CORRECTION

Posttest	Recap	Pretest
1. T	1. T	1. T
2. T	2. T	2. T
3. T	3. T	3. T
4. T	4. T	4. T
5. T	5. T	5. T

