

Configuración del Mapping SSID a VLAN en un Punto de Acceso Inalámbrico

Objetivo

Una red de área local virtual (VLAN) es una red conmutada que se segmenta lógicamente por función, área o aplicación sin tener en cuenta las ubicaciones físicas de los usuarios. Las VLAN son un grupo de hosts o puertos que se pueden ubicar en cualquier lugar de una red pero que se comunican como si estuvieran en el mismo segmento físico. Las VLAN ayudan a simplificar la administración de la red al permitirle mover un dispositivo a una nueva VLAN sin cambiar ninguna conexión física.

Una VLAN etiquetada entre un puerto trunk y un puerto switch contiene la información de VLAN en la trama Ethernet. Una VLAN sin etiqueta envía tráfico sin la etiqueta VLAN. Una etiqueta VLAN inserta información en las tramas Ethernet identificando qué trama pertenece a qué VLAN. Un puerto trunk es un puerto que maneja varias VLAN.

El identificador de conjunto de servicios (SSID) es un identificador único al que los clientes inalámbricos pueden conectarse o compartir entre todos los dispositivos de una red inalámbrica. Distingue entre mayúsculas y minúsculas y no debe superar los 32 caracteres alfanuméricos.

La función SSID Broadcast permite que el SSID se transmita en la red. Esta función está activada de forma predeterminada para que los dispositivos inalámbricos puedan detectar la red.

Este artículo proporciona instrucciones sobre cómo configurar el mapping SSID a VLAN en los puntos de acceso inalámbricos.

Dispositivos aplicables | Versión del firmware

- WAP121 | 1.0.6.5 ([Descargar la última](#))
- WAP131 | 1.0.2.8 ([Descargar la última](#))
- WAP150 | 1.0.1.7 ([Descargar la última](#))
- WAP321 | 1.0.6.5 ([Descargar la última](#))
- WAP351 | 1.0.2.8 ([Descargar la última](#))
- WAP361 | 1.0.1.7 ([Descargar la última](#))
- WAP371 | 1.3.0.3 ([Descargar la última](#))
- WAP551 | 1.2.1.3 ([Descarga más reciente](#))
- WAP561 | 1.2.1.3 ([Descarga más reciente](#))
- WAP571 | 1.0.0.17 ([Descarga más reciente](#))
- WAP571E | 1.0.0.17 ([Descarga más reciente](#))

Configuración del Mapping SSID a VLAN

Uso del asistente de configuración


Paso 1. Ejecute el asistente de configuración desde el panel principal de la utilidad basada en Web del punto de acceso.

Access Point Setup Wizard

- Welcome**
- Configuration
 - IP Address
 - Single Point Setup
 - Time Settings
 - Device Password
- Radio 1 (2.4 GHz)
 - Network Name
 - Wireless Security
 - VLAN ID
- Radio 2 (5 GHz)
 - Network Name

Welcome

Thank you for choosing Cisco Wireless Access Point. This setup wizard will help you install your Access Point.



Note: This Setup Wizard provides simplified options to help you quickly get your access point up and running. If there is any option or capability that you do not see while running the setup wizard, click the learning link provided on many of the setup wizard pages.

Click **Next** to continue

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Paso 2. Proporcione los detalles de configuración requeridos por el asistente de configuración.

Paso 3. En el campo *Network Name (SSID)*, en Configure Radio 1 (Configurar radio 1) para la red de 2,4 GHz, introduzca el SSID que prefiera. El valor predeterminado es ciscosb_2.4GHz. Haga clic en Next (Siguiente).

Configure Radio 1 - Name Your Wireless Network

The name of your wireless network, known as an SSID, identifies your network so that wireless devices can find it.

Enter a name for your wireless network:

Network Name (SSID):
For example: MyNetwork

[? Learn more about network names](#)

Click **Next** to continue

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Paso 4. Elija el tipo de seguridad de la red inalámbrica.

Nota: En este ejemplo, se elige Mejor seguridad (WPA2 Personal - AES).

Configure Radio 1 - Secure Your Wireless Network

Select your network security strength.

Best Security (WPA2 Personal - AES)

Recommended for new wireless computers and devices that support this option.
Older wireless devices might not support this option.

Better Security (WPA/WPA2 Personal - TKIP/AES)

Recommended for older wireless computers and devices that might not support WPA2.

No Security (Not recommended)

Enter a security key with 8-63 characters.

.....|



Below Minimum

Show Key as Clear Text

[? Learn more about your network security options](#)

Click **Next** to continue

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Paso 5. Introduzca una clave de seguridad o una contraseña de entre 8 y 63 caracteres. Para continuar, haga clic en Next (Siguiente).

Configure Radio 1 - Secure Your Wireless Network

Select your network security strength.

- Best Security (WPA2 Personal - AES)
Recommended for new wireless computers and devices that support this option.
Older wireless devices might not support this option.
- Better Security (WPA/WPA2 Personal - TKIP/AES)
Recommended for older wireless computers and devices that might not support WPA2.
- No Security (Not recommended)

Enter a security key with 8-63 characters.

.....|



Below Minimum

Show Key as Clear Text

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Click **Next** to continue

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Paso 6. En el campo *VLAN ID*, ingrese el ID de VLAN para su red inalámbrica y haga clic en **Next**.

Nota: En este ejemplo, 10 se utiliza como ID de VLAN.

Configure Radio 1 - Assign The VLAN ID For Your Wireless Network

By default, the VLAN ID assigned to the management interface for your access point is 1, which is also the default untagged VLAN ID. If the management VLAN ID is the same as the VLAN ID assigned to your wireless network, then the wireless clients associated with this specific wireless network can administer this device. If needed, an access control list (ACL) can be created to disable administration from wireless clients.

Enter a VLAN ID for your wireless network:

VLAN ID: (Range: 1 - 4094)

[? Learn more about vlan ids](#)

Click **Next** to continue

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Paso 7. En la página Configure Radio 2 para la red de 5 GHz, ingrese su SSID preferido en el campo *Network Name (SSID)* y luego haga clic en **Next**. El valor predeterminado es ciscosb_5GHz.

Nota: Este paso sólo se aplica a los WAP con radio dual.

Configure Radio 2 - Name Your Wireless Network

The name of your wireless network, known as an SSID, identifies your network so that wireless devices can find it.

Enter a name for your wireless network:

Network Name (SSID):

For example: MyNetwork

[? Learn more about network names](#)

Click **Next** to continue

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Paso 8. Elija el tipo de seguridad de la red inalámbrica.

Nota: En este ejemplo, se elige Mejor seguridad (WPA2 Personal - AES).

Configure Radio 2 - Secure Your Wireless Network

Select your network security strength.

Best Security (WPA2 Personal - AES)

Recommended for new wireless computers and devices that support this option.
Older wireless devices might not support this option.

Better Security (WPA/WPA2 Personal - TKIP/AES)

Recommended for older wireless computers and devices that might not support WPA2.

No Security (Not recommended)

Enter a security key with 8-63 characters.

Below Minimum

Show Key as Clear Text

[? Learn more about your network security options](#)

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Paso 9. Introduzca una clave de seguridad o una contraseña de entre 8 y 63 caracteres. Para continuar, haga clic en Next (Siguiente).

Configure Radio 2 - Secure Your Wireless Network

Select your network security strength.

Best Security (WPA2 Personal - AES)

Recommended for new wireless computers and devices that support this option.
Older wireless devices might not support this option.

Better Security (WPA/WPA2 Personal - TKIP/AES)

Recommended for older wireless computers and devices that might not support WPA2.

No Security (Not recommended)

Enter a security key with 8-63 characters.

Below Minimum

Show Key as Clear Text

Paso 10. Ingrese el ID de VLAN y luego haga clic en **Next**.

Nota: Para este ejemplo, 20 se utiliza como ID de VLAN.

Configure Radio 2 - Assign The VLAN ID For Your Wireless Network

By default, the VLAN ID assigned to the management interface for your access point is 1, which is also the default untagged VLAN ID. If the management VLAN ID is the same as the VLAN ID assigned to your wireless network, then the wireless clients associated with this specific wireless network can administer this device. If needed, an access control list (ACL) can be created to disable administration from wireless clients.

Enter a VLAN ID for your wireless network:

VLAN ID: (Range: 1 - 4094)

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Paso 11. Haga clic en **Next** para omitir la configuración del portal cautivo.

Enable Captive Portal - Create Your Guest Network

Use Captive Portal to set up a guest network, which means that wireless users need to be authenticated before they can access the Internet. For example, a hotel can create a guest network to redirect new wireless users to a page for authentication.

Do you want to create your guest network now?

- Yes
- No, thanks.

[? Learn more about captive portal guest networks](#)

Click **Next** to continue

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Paso 12. Revise y confirme los parámetros y haga clic en **Enviar**.

Summary - Confirm Your Settings

Please review the following settings and ensure the data is correct.

Radio 1 (2.4 GHz)

| | |
|------------------------|---------------------|
| Network Name (SSID): | ciscosb_2.4GHz |
| Network Security Type: | WPA2 Personal - AES |
| Security Key: | ***** |
| VLAN ID: | 10 |

Radio 2 (5 GHz)


| | |
|------------------------|---------------------|
| Network Name (SSID): | ciscosb_5GHz |
| Network Security Type: | WPA2 Personal - AES |
| Security Key: | ***** |
| VLAN ID: | 20 |

Click **Submit** to enable settings on your Cisco Wireless Access Point

Paso 13. Cuando aparezca la pantalla Device Setup Complete (Configuración del dispositivo finalizada), haga clic en **Finish (Finalizar)**.

Nota: Se cerrará la sesión de la página de la utilidad basada en Web.

Device Setup Complete

 Congratulations, your access point has been set up successfully. We strongly recommend that you save these settings by writing them down or by copying and pasting them into a text document. You will need these settings later when you add other wireless computers or devices to your network.

| | |
|------------------------|---------------------|
| Cluster Name: | Cisco001 |
| Radio 1 (2.4 GHz) | |
| Network Name (SSID): | ciscosb_2.4GHz |
| Network Security Type: | WPA2 Personal - AES |
| Security Key: | password123 |
| Radio 2 (5 GHz) | |
| Network Name (SSID): | ciscosb_5GHz |
| Network Security Type: | WPA2 Personal - AES |
| Security Key: | ***** |



Click **Finish** to close this wizard.

Ahora ha asignado correctamente un SSID a una VLAN en su punto de acceso.