

Configure Simple Network Management Protocol in Cisco Business Wireless Access Point

Objective

The objective of this document is to show you how to configure Simple Network Management Protocol (SNMP) settings on your Cisco Business Wireless (CBW) Access Point (AP).

Applicable Devices | Software Version

- 140AC ([Data Sheet](#)) | 10.0.1.0 ([Download latest](#))
- 145AC ([Data Sheet](#)) | 10.0.1.0 ([Download latest](#))
- 240AC ([Data Sheet](#)) | 10.0.1.0 ([Download latest](#))

Introduction

The CBW APs support the latest 802.11ac Wave 2 standard for higher performance, greater access, and higher-density networks. They deliver industry-leading performance with highly secure and reliable wireless connections, for a robust, mobile end-user experience.

SNMP is a popular network management protocol used for collecting information from all the devices in the network and configuring and managing these devices. You can configure both SNMP v2c and SNMP v3 access modes using the Master AP web interface. SNMPv2c is the community string-based administrative framework for SNMPv2. Community string is a type of password, which is transmitted in cleartext. SNMP v3 feature provides secure access to devices by authenticating and encrypting data packets over the network.

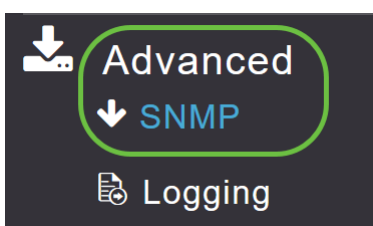
You can configure the following SNMP access modes for the Master AP:

- SNMP v2c only
- SNMP v3 only
- Both SNMP v2c and SNMP v3
- Neither SNMP v2c nor SNMP v3

Configure SNMP

Step 1

Choose **Advanced > SNMP**.



Step 2

Enable SNMP service option for querying the configuration using MIB browser.

SNMP

Service Disabled

Service ?

SNMP Access V2C V3

Read Only Community

Read-Write Community

Apply

Step 3

In the SNMP setup window, select the appropriate check box next to the *SNMP Access* to enable the desired SNMP mode.

The default mode is v2c (or by default, either both or neither of the SNMP access mode is selected).

The selected SNMP access mode is enabled.

SNMP



Service

Disabled

Service ?

SNMP Access **V2C** **V3**

Read Only Community

Read-Write Community

Apply

Step 4

In the *Read Only Community* field, enter the desired community name. The default name is **public**.

SNMP



Service

Disabled

Service ?

SNMP Access **V2C** **V3**

Read Only Community

Read-Write Community

Apply

Step 5

In the *Read-Write Community* field, enter the desired community name. The default name is **private**.

SNMP



Service

Disabled

Service ?

SNMP Access **V2C** **V3**

Read Only Community

Read-Write Community

Apply

Step 6

Click **Apply**.

SNMP



Service

Disabled

Service ?

SNMP Access **V2C** **V3**

Read Only Community

Read-Write Community

Apply

Step 7

To configure SNMP Trap Receiver, click on **Add New SNMP Trap Receiver**. This tool receives, logs, and displays SNMP traps sent from network devices. The default setting is Disabled.

SNMP Trap Receivers

+ Add New SNMP Trap Receiver

Action	Receiver Name	IP Address	Status	SNMPv3
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Step 8

In the *Add SNMP Trap Receiver* window, configure the following:

- Receiver Name
- IP address of the server you wish to connect to
- Status
- Option to enable SNMPv3

Click **Apply**.

Add SNMP Trap Receiver ×

Receiver Name 1

IP Address 2

Status 3

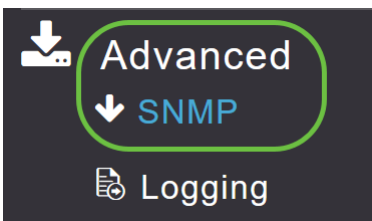
SNMPv3 4

5

Add an SNMPv3 User

Step 1

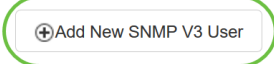
Choose **Advanced > SNMP**.



Step 2

In the SNMP Setup window, under the *SNMPv3 Users* section, click the **Add New SNMPv3 User** button.

SNMP V3 Users

Add New SNMP V3 User

Action	User Name	Access Mode	Authentication protocol	Privacy Protocol
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Step 3

In the *Add SNMP v3 User* window, enter the following details:

- *User Name* - Enter the desired username for the new SNMPv3 user.
- *Access Mode* - From the drop-down list, choose one of the desired modes: *Read Only* or *Read/Write*. The default is **Read Only**.
- *Authentication protocol* - From the *Authentication Protocol* drop-down list, choose one of the options: HMAC-MD5, HMAC-SHA, or None. The default authentication protocol is **HMAC-SHA**.
- *Authentication Password* - Enter the desired authentication password. Use a minimum password length of 12-31 characters.
- *Confirm Authentication Password* - Confirm the authentication password specified above. You can select the Show Password checkbox to display the entries in the Authentication Password and the Confirm Authentication Password fields and verify if the characters match.
- *Privacy Protocol* - From the drop-down list, select one of the options: CBC-DES, CFB-AES-128, or None. The default privacy protocol is **CFB-AES-128**.
- *Privacy Password* - Enter the desired privacy password. Use a minimum password length of 12-31 characters.
- *Confirm Privacy Password* - Confirm the privacy password specified above. You can select the Show Password checkbox to display the entries in the Privacy Password and the Confirm Privacy Password fields and verify if the characters match.

Add SNMP V3 User



User Name *

Access Mode

Authentication protocol

Authentication Password

Confirm Authentication Password

Show Password

Privacy Protocol

Privacy Password

Confirm Privacy Password

Show Password

Step 4

Click **Apply** to create a new SNMPv3 user.

Add SNMP V3 User

User Name *

Access Mode

Authentication protocol

Authentication Password

Confirm Authentication Password

Show Password

Privacy Protocol

Privacy Password

Confirm Privacy Password

Show Password

Apply

Cancel

The newly added SNMPv3 User appears in the *SNMP V3 Users* table on the SNMP Setup window.

SNMP V3 Users

+ Add New SNMP V3 User

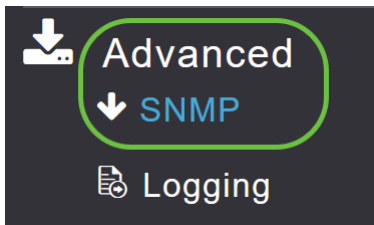
Action	User Name	Access Mode	Authentication protocol	Privacy Protocol
✘	Test	Read Only(Default)	HMAC-SHA(Default)	CFB-AES-128(Default)
✘	ciscoA2	Read Only(Default)	HMAC-SHA(Default)	CFB-AES-128(Default)

You can add up to a maximum of 7 SNMPv3 users.

Delete SNMPv3 User

Step 1

Choose **Advanced > SNMP**.



Step 2

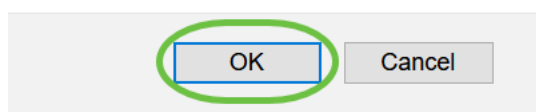
In the *SNMP Setup*, click the **X** icon in the row containing the SNMPv3 user you wish to delete.

SNMP V3 Users				
<input type="button" value="⊕ Add New SNMP V3 User"/>				
Action	User Name	Access Mode	Authentication protocol	Privacy Protocol
<input checked="" type="checkbox"/>	Test	Read Only(Default)	HMAC-SHA(Default)	CFB-AES-128(Default)

Step 3

A pop-up window appears to confirm the action. Click **OK**.

Are you sure? You want to delete this User.



The SNMPv3 Users table is refreshed and the deleted entry is removed from the table.

Conclusion

You are all set! You have now successfully configured SNMP in your CBW AP. To learn more, read the articles below and manage your network with ease.

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