



# AP Packet Capture

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## Introduction to AP Client Packet Capture

The AP Client Packet Capture feature allows the packets on an AP to be captured for wireless client troubleshooting. The packet capture operation is performed on the AP by the radio drivers on the current channel on which it is operational, based on the specified packet capture filter. All the packets that are captured for a specific client are uploaded to a file in the FTP server. This file can be opened in Wireshark for packet inspection.

### Limitations for AP Client Packet Capture

- The packet capture task can be performed for only one client at a time per site.
- Packet capture can be started on a specific AP or a set of APs using static mode. It can be started or stopped for the same client on different APs, when the capture is in progress.

When packet capture is started in auto mode, system automatically selects the set of nearby APs to start packet capture for a specific client. In this mode, you cannot start or stop packet capture on individual APs. Use the **stop all** command to stop the packet capture when it is started in auto-mode.

- After the SSO is complete, the packet capture action will not continue after a switchover.

## Enabling Packet Capture (GUI)

### Procedure

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- Step 1** Choose **Troubleshooting > AP Packet Capture**.

- Step 2** On the **Troubleshooting** page, in the **Start Packet Capture** section, in the **Client MAC Address** field, enter the client's MAC address. Enter the MAC address either in *xx:xx:xx:xx:xx:xx*, *xx-xx-xx-xx-xx-xx*, or *xxxx.xxxx.xxxx* format.
- Step 3** From the **Capture Mode** options, choose **Auto**.
- Step 4** Click **Start**.

## Enabling Packet Capture (CLI)

Follow the procedure given below to enable packet capture:

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>enable</b>  <b>Example:</b> Device# enable	Enters privileged EXEC mode.
<b>Step 2</b>	<b>ap packet-capture start <i>client-mac-address</i></b> <b>auto</b>  <b>Example:</b> Device# ap packet-capture start 0011.0011.0011 auto	Enables packet capture for the specified client on a set of nearby access points.

## Create AP Packet Capture Profile and Map to an AP Join Profile (GUI)

### Procedure

- Step 1** Click **Configuration > Tags & Profiles > AP Join Profile**.
- Step 2** Click **Add** to create a new AP Join Profile and enter the requisite details.
- Step 3** In the **Add AP Join Profile** area, click **AP > Packet Capture**.
- Step 4** Click the **Plus** icon to create a new Packet Capture profile or select one from the drop-down menu.
- Step 5** Click **Save**.

# Create AP Packet Capture Profile and Map to an AP Join Profile

While packet capture profile configurations are used for an AP, the packet capture profile is mapped to an AP profile. The AP profile is in turn mapped to site tag.

While starting packet capture, APs use the packet capture profile configurations based on the site and AP join profile they belong to.

Follow the procedure given below to create an AP packet capture profile and map it to an AP join profile:

## Procedure

	Command or Action	Purpose
<b>Step 1</b>	<b>configure terminal</b>  <b>Example:</b> Device# configure terminal	Enters global configuration mode..
<b>Step 2</b>	<b>wireless profile ap packet-capture</b> <i>packet-capture-profile-name</i>  <b>Example:</b> Device(config)# wireless profile ap packet-capture test1	Configures an AP profile.
<b>Step 3</b>	<b>ap profile</b> <i>profile-name</i>  <b>Example:</b> Device(config)# ap profile default-ap-profile	Configures an AP packet capture profile.
<b>Step 4</b>	<b>packet-capture</b> <i>profile-name</i>  <b>Example:</b> Device(config-ap-profile)# packet-capture capture-test	Enables packet capture on the AP profile.
<b>Step 5</b>	<b>end</b>  <b>Example:</b> Device(config-ap-profile)# end	Exits the AP profile configuration mode.
<b>Step 6</b>	<b>show wireless profile ap packet-capture</b> <b>detailed</b> <i>profile-name</i>  <b>Example:</b> Device# show wireless profile ap packet-capture detailed test1	Displays detailed information of the selected AP packet capture profile.

## Start or Stop Packet Capture

Perform either of these tasks to start or stop a packet capture procedure.

**Procedure**

	<b>Command or Action</b>	<b>Purpose</b>
<b>Step 1</b>	<b>ap packet-capture start</b> <i>client-mac-address</i> { <b>auto</b>   <b>static</b> <i>ap-name</i> }  <b>Example:</b> Device# ap packet-capture start 0011.0011.0011 auto	Enables packet capture for a client.
<b>Step 2</b>	<b>ap packet-capture stop</b> <i>client-mac-address</i> { <b>all</b>   <b>static</b> <i>ap-name</i> }  <b>Example:</b> Device# ap packet-capture stop 0011.0011.0011 all	Disables packet capture for a client.