



## OEAP Link Test

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## Feature History for OEAP Link Test

This table provides release and related information for the feature explained in this module.

This feature is also available in all the releases subsequent to the one in which they are introduced in, unless noted otherwise.

**Table 1: Feature History for OEAP Link Test**

Release	Feature	Feature Information
Cisco IOS XE Bengaluru 17.5.1	OEAP Link Test	The Cisco OEAP Link Test feature allows you to determine the DTLS upload, link latency, and jitter of the link between an AP and the controller.

## Information About OEAP Link Test

The Cisco OEAP Link Test feature allows you to determine the DTLS upload speed of the link between an AP and the controller. This feature helps in identifying network bottlenecks and reasons for functionality failures. You can determine the link latency by running a test on demand.

A link test is used to determine the quality of the link between the controller and an AP in OEAP mode. The AP sends synthetic packets to the controller and the controller echoes them back to the AP, which can then estimate the link quality.

### Feature Scenarios

Cisco OfficeExtend Access Point (OEAP) users are complaining of poor performance when connected to a teleworker AP.

### Use Cases

This feature allows OEAP network admins to troubleshoot low throughput from the Cisco Catalyst 9800 Controller GUI by running OEAP link test.

The OEAP link test provides DTLS upload speed, link latency, and link jitter, all of which help the network administrators to narrow down the problem.

## Configuring OEAP Link Test (CLI)

### 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 name <i>ap-name</i> network-diagnostic</b>  <b>Example:</b> Device# ap name ap18 network-diagnostic	Triggers network diagnostics on an OfficeExtend AP.

## Performing OEAP Link Test (GUI)

### Procedure

**Step 1** Choose **Monitoring > Wireless > AP Statistics**.

In the list of APs, a **Link Test** icon is displayed in the **AP Name** column for OEAP-capable APs.

**Note** The **Link Test** icon is displayed only if an AP is OEAP capable and is configured to operate as OEAP.

**Step 2** Click **Link Test**.

A link test is run and the results are shown.

## Verifying OEAP Link Test

The following example shows how to verify network diagnostics information:

```
Device# show FlexConnect office-extend diagnostics
```

```
Summary of OfficeExtend AP Link Latency
```

CAPWAP Latency Heartbeat

Current: current latency (ms)  
 Min: minimum latency (ms)  
 Max: maximum latency (ms)

Link Test

Upload: DTLS Upload (Mbps)  
 Latency: DTLS Link Latency (ms)  
 Jitter: DTLS Link Jitter (ms)

AP Name	Last Latency Heartbeat from AP	Current	Max	Min	Last Link Test Run	Upload Latency	Jitter
ap-18	1 minute 1 second	0	0	0	12/04/20 09:19:48	8	2

