



OEAP Link Test

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OfficeExtend Access Point link test

An OfficeExtend Access Point Link (OEAP) Test is a diagnostic feature that

- helps determine the Datagram Transport Layer Security (DTLS) upload speed of the link between an OEAP and a controller
- assists in identifying network bottlenecks and reasons for functionality failures, and
- allows administrators to estimate link quality by running tests on demand.

Feature history for OfficeExtend Access Point 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

Release	Feature	Feature information
Cisco IOS XE 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.

Feature scenarios

OEAP users may experience poor performance when connected to a teleworker AP. Running an OEAP link test can diagnose and address these issues.

- The test involves the AP sending synthetic packets to the controller. The controller returns them, and the AP measures link quality.

Use cases

You can use this feature to troubleshoot issues such as low throughput from the Cisco Catalyst 9800 Controller GUI. The OEAP link test provides crucial metrics like DTLS upload speed, link latency, and jitter, facilitating precise issue identification.

Configure OEAP link test (CLI)

Perform network diagnostics on an OEAP using CLI to troubleshoot network connectivity.

Procedure

Step 1 Enter privileged EXEC mode.

Example:

```
Device> enable
```

Step 2 Trigger network diagnostics on an OfficeExtend AP.

Example:

```
Device# ap name ap18 network-diagnostic
```

The OEAP starts the network diagnostics process, allowing you to assess connectivity and performance.

Perform OEAP link test (GUI)

Perform a link test for the OEAP to ensure optimal connection quality and operational efficiency through the 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**.

The controller runs the link test and displays the results.

The link test results are displayed after selecting the OEAP.

Verify OEAP link test

To verify network diagnostics information, use this command:

```
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
0
```

