



System Configuration

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Supported Access Points

- C9105AX
- C9115AX
- C9120AX
- C9130AX
- C9124AX
- C9136I
- CW9162I
- CW9164I
- CW9166I
- CW9172H
- CW9172I
- CW9176
- CW9178



Note C9115AX APs support only scanning and advertising.

Supported Platforms

- Cisco Catalyst 9800-L Wireless Controller

- Cisco Catalyst 9800-40 Wireless Controller
- Cisco Catalyst 9800-80 Wireless Controller
- Cisco Catalyst CW9800M Wireless Controller
- Cisco Catalyst CW9800H1 and CW9800H2 Wireless Controllers

Scale Summary

Table 1: Scale Summary

| KPIs | C9800-L | C9800- |
|---|--|--------------------|
| Maximum BLE devices that can be onboarded (including connected) | 1000, 2000 (with Performance license) | 6400 |
| Maximum BLE devices connected | 1000, 2000 (with Performance license) | 6400 |
| Maximum number of APs to be onboarded to IoT Orchestrator | 250/500 | 2000 |
| Maximum BLE advertisements handling | Subscribed: 8K/sec Total Advertisements: 22K/sec | Subscri Total A |
| Maximum channel throughput | 6 Mbps | 20 Mbps |
| Maximum and average latency | Maximum: 3 seconds Average: 1.5 seconds | Maxim Averag |
| High Availability Failover Time | 360 seconds | 300 sec |
| Any impact to existing Wi-Fi capabilities | Maximum WiFi clients reduced: From 5000 to 4000, From 10000 to 8000 (with Performance license) | Maxim 32000 t |

**Note**

- **Key Performance Indicators (KPIs):** KPIs are collected in ideal lab conditions with negligible network latency. The above table represents only ideal conditions. In production, numbers may vary from environment to environment.
- **Latency:** The delay between BLE events initiated from AP to when they are received from the MQTT application (third-party application).
- **Maximum MQTT Throughput:** The throughput of the MQTT channel between IoT Orchestrator and third-party application.
- **Maximum GRPC Events or Messages:** The maximum number of events or messages the IoT Orchestrator can handle from AP.
- **Maximum BLE Advertisements Handling -** The maximum BLE advertisements the IoT Orchestrator can process or handle.
- **Total Advertisements:** Covers both subscribed advertisements and advertisements received from non-onboarded or connected devices.
- **High Availability Failover Time:** The time taken for IoT Orchestrator to resume operations after active controller goes down.

