

How to configure the wireless controller of the core switch

Article Overview

To configure the wireless controller on a core switch, you need to set up VLANs, management interfaces, CAPWAP tunnels, and onboard access points either via CLI or GUI.

Step 1: Prepare the Core Switch

- o Enable routing if the switch is Layer 3 to allow inter-VLAN communication.
- o Create VLANs for management and wireless networks. For example, VLAN 10 for management, VLAN 20 for corporate Wi-Fi, and VLAN 30 for guest Wi-Fi .
- o Configure SVI interfaces for each VLAN and assign IP addresses. This allows the switch to route traffic between VLANs and provide DHCP services if needed .
- o Set up trunk ports between the switch and the wireless controller to carry multiple VLANs, and configure access ports for AP uplinks in the management VLAN .

Step 2: Enable Embedded Wireless Controller (EWC)

- o On Catalyst 9000 switches, enable the Embedded Wireless Controller using the WebUI or CLI .
- o Verify the switch has the required license to support the number of APs you plan to deploy.
- o Optionally, configure redundancy if multiple switches will host active EWC instances for high availability .

Step 3: Configure Management Interfaces

- o Management Interface: Used for WLC management and AP communication. Assign a static IP in the management VLAN .
- o Service Port Interface: Optional out-of-band management interface for initial setup or recovery .
- o Dynamic Interfaces: Map each WLAN to a VLAN for client traffic separation .
- o Ensure your computer is in the same subnet as the service interface if using GUI for initial configuration .

Step 4: Configure CAPWAP for Access Points

- o CAPWAP tunnels allow lightweight APs to communicate with the WLC.
- o Connect APs to access ports in the management VLAN; they will automatically discover the WLC if in the same VLAN .
- o Ensure DHCP is configured for APs to receive IP addresses and WLC discovery information .

Step 5: Configure WLANs and Security

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- o Create SSID profiles and map them to the appropriate VLANs.
- o Configure security policies, including WPA2/WPA3, authentication servers (e.g., Cisco ISE), and QoS settings .
- o Optionally, configure guest networks with separate VLANs and captive portal authentication.

Step 6: Verify and Monitor

- o Use CLI commands or WebUI to check AP status, client associations, and CAPWAP tunnel health.
- o Ensure logs and time settings are correct for accurate monitoring and troubleshooting .
- o Test connectivity for both management and client VLANs. By following these steps, you can successfully configure the wireless controller on a core switch, onboard access points, and manage multiple WLANs securely and efficiently. This setup ensures separation of management and client traffic, supports scalability, and leverages the Catalyst 9000 switch capabilities .

This article will show you a Cisco WLC configuration step-by-step process, making it easy for network admins and IT

This section provides instructions to set up a controller to operate in a small, medium, or large network wireless

Basic Configurations Follow This guide will provide the basic configurations to quickly set up your own managed network. The guide

Learn all the details about Wireless Core Controller for Nintendo Switch(TM). Wireless Core

In the Bound Device List area, click Add to add the wireless authentication control point Core. After the configuration is complete, you

This lesson discusses how the placement of the wireless controller affects the performance and scale of the wifi network. There are

The Mini Wireless Core Controller for Nintendo Switch(TM) is a pint sized controller with a more ergonomic feel than with Joy-Cons(TM).

Page 2 Calibrating Wireless Core Controller: Before using Wireless Core Controller for the first time, it is suggested that you calibrate

Choose Switch > Interface from the navigation pane on the left, select the Eth-Trunk interfaces connecting

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the core

Configuring the Core Switch Context In this scenario, IP addresses of the interfaces connecting the core switch to the

Comprehensive instruction manual for the Nyko Wireless Core Controller, compatible with Nintendo Switch, Android, and PC.

If you, by any chance, is also an owner of the Nyko Wireless Core Controller and suddenly had a “syncing” issue after updating to

Product Overview Compatible with all Nintendo Switch Consoles, as well as connecting to PC, Android and IOS 13+, the Powerwave

In this article, we take a look at the initial configuration of a Cisco WLC 9800 and some recommended basic general

Configuring a home controller Use the System Design view to add and configure controllers (CA-10, CORE 5, CORE 3, CORE 1, EA

A switch that functions as part of a router and operates at the third layer of the OSI network standard model, the network layer. The

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