

Configuration Guide

How to Configure Layer 3 Discovery on the DWC-1000



Overview

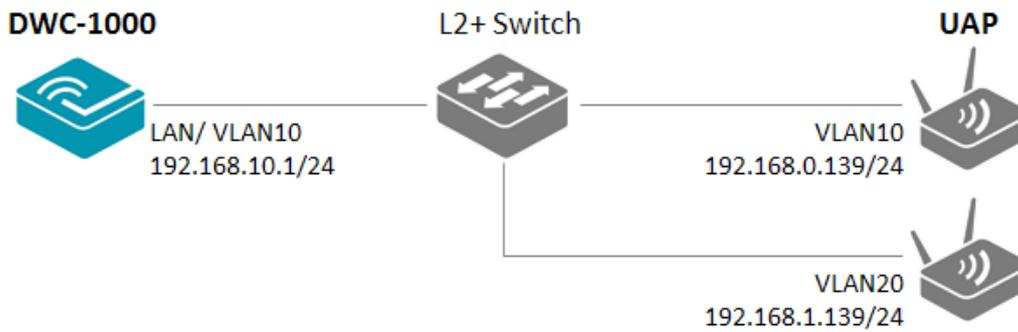
This guide describes how to configure the D-Link DWC-1000 Unified Controller to discover managed APs via the Layer 3 discovery protocol automatically.

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Situation note

In a medium or large network, the network is divided into several subnets. In this case, the D-Link Unified Controller's managed AP discovery function can allow it to cross subnets via the Layer 3 (L3)/IP discovery protocol.

The scenario here shows the DWC-1000 connecting to a L2+ Switch. On the switch, it is dividing two subnets - VLAN 10 with an IP address range of 192.168.0.x/24 and VLAN 20 with an IP address range of 192.168.1.x/24.



Configuration steps

1. Since the DWC-1000 and the Unified AP (UAP) have a proprietary L3 discover protocol, the DWC-1000 can search for UAPs by IP addresses. Navigate to **SETUP > AP Management > Poll List**. Check the box for **L3/ IP discovery**. Add the UAP IP address in the **List of AP Addresses**. Click **Add**, then click **Save Settings**.

The screenshot shows the D-Link web interface for the DWC-1000. The navigation menu on the left includes: Wizard, WLAN Global Settings, AP Management, WLAN Visualization, Internet Settings, Network Settings, QoS, GVRP, VPN Settings, VLAN Settings, DMZ Setup, and USB Settings. The main content area is titled **POLL LIST** and contains the following configuration options:

- Discovery**
 - L3/IP Discovery**:
 - L2/VLAN Discovery**:
- List of IP Addresses**
 - List of IP Addresses:**
 - Start IP Address:**
 - End IP Address:**

Buttons for **Delete** and **Add** are located at the bottom of the configuration area. A **Save Settings** button is also visible above the configuration options. A **Helpful Hints...** sidebar is visible on the right side of the interface.

NOTE: The screenshots in this guide are from the DWC-1000's firmware version 4.1.0.2_10260W. If you are using an earlier version of the firmware, the screenshots may not be identical to what you see on your browser.

2. Navigate to STATUS> Access Point Info> AP Summary. The DWC-1000 will show the UAP which has been found by the L3 discovery protocol. Select the UAP to manage and click **Manage**. This will bring up the Valid Access Point Configuration screen.

The screenshot shows the D-Link DWC-1000 web interface. The top navigation bar includes 'DWC-1000', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'HELP'. The left sidebar contains a menu with items like 'Dashboard', 'Global Info', 'Device Info', 'Access Point Info', 'LAN Clients Info', 'Wireless Client Info', 'WDS Managed APs', 'Logs', 'Traffic Monitor', 'Active Sessions', and 'Active VPNs'. The main content area is titled 'ACCESS POINTS SUMMARY' and includes a 'LOGOUT' link. Below the title, there is a descriptive paragraph and a table titled 'List of APs'. The table has columns for 'MAC Address', 'IP Address', 'Age', 'Status', 'Radio', and 'Channel'. One AP is listed with MAC address 90:94:e4:45:0a:40, IP address 192.168.1.139, and age 0h:0m:13s. Below the table are buttons for 'Delete All', 'Manage', 'Acknowledge', 'View Details', and 'Refresh'. There is also a checkbox for 'Auto Refresh' which is checked. A 'Helpful Hints...' sidebar on the right provides additional information.

	MAC Address	IP Address	Age	Status	Radio	Channel
<input type="checkbox"/>	90:94:e4:45:0a:40	192.168.1.139	0h:0m:13s	No Database Entry	N/A	N/A

- Select **AP profile**, for example, "1-default." Change the other settings if necessary. Click **Save Settings** to confirm the settings. The UAPs will be managed by the DWC-1000. Click **OK** on the pop-out window that will then appear.

The screenshot shows the D-Link DWC-1000 web interface at the 'VALID AP' configuration page. The top navigation bar and left sidebar are the same as in the previous screenshot. The main content area is titled 'VALID AP' and includes a 'LOGOUT' link. Below the title, there is a descriptive paragraph and two buttons: 'Save Settings' and 'Don't Save Settings'. Below this is a section titled 'Valid Access Point Configuration' with several fields: 'MAC address' (90:94:e4:45:0a:40), 'AP Mode' (Managed), 'Location' (text input), 'Authentication Password' (text input with an 'Edit' button), 'Profile' (1 - Default), 'Expected SSID' (text input), 'Expected Channel' (Any), and 'Expected WDS Mode' (Any). A 'Helpful Hints...' sidebar on the right provides additional information.

The screenshot shows the D-Link DWC-1000 web management interface. At the top, the D-Link logo is on the left, and navigation tabs for SETUP, ADVANCED, TOOLS, STATUS, and HELP are on the right. A left sidebar contains a menu with items like Dashboard, Global Info, Device Info, Access Point Info, LAN Clients Info, Wireless Client Info, WDS Managed APs, Logs, Traffic Monitor, Active Sessions, and Active VPNs. The main content area is titled 'ACCESS POINTS SUMMARY' and contains a message: 'The All AP Summary page has been updated. The All AP Summary page has been updated.' Below this is a 'List of APs' table with columns for 'MAC Address' and 'Channel'. A message dialog box is overlaid on the table, containing a warning icon and the text: 'The following AP MAC address was configured as a Valid AP by this Controller. The AP configured as managed, will be managed at the next discovery cycle: 90:94:e4:45:0a:40'. The dialog has an 'OK' button. Below the table are buttons for 'Delete All', 'Manage', 'Acknowledge', 'View Details', and 'Refresh'. An 'Auto Refresh' checkbox is checked.

MAC Address	Channel
90:94:e4:45:0a:40	N/A

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