

# Multi-WAN Access via Layer 3 Switch



## Overview

In this lesson, we will learn to configure a multilayer switch (also called Layer 3 switch) to perform inter-VLAN routing, which was previously done using an actual router. Multilayer switches can forward frames based on MAC address information and can also forward IP packets based. Cisco SD-WAN Manager provides flex support on Layer 2 switchports on Cisco IOS XE Catalyst SD-WAN devices, allowing flexibility for LAN ports at Layer 2 to be converted to Layer 3 ports. With UniFi Gateways support Multi-WAN configurations to improve internet reliability and performance. You can connect up to eight WAN interfaces, limited only by the total number of physical ports on your device (with at least one reserved for LAN), and assign each to either Failover or Load Balancing. A Layer 3 switch (also called a multilayer switch) is a purpose-built hardware device that blends features of a traditional Layer 2 switch and a router., they don't forward data to destination based on L3 attributes like destination IP address.

## Multi-WAN Access via Layer 3 Switch



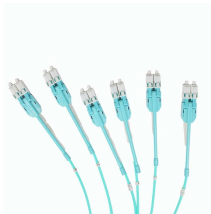
A Layer 3 switch (multilayer switch) combines Layer 2 Ethernet switching with Layer 3 IP routing. It switches traffic within the same VLAN/subnet and routes traffic between different ...



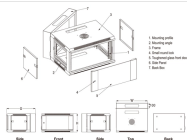
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So far, this section has stated that routed interfaces can be used with a single point-to-point link between pairs of Layer 3 switches, or between a Layer 3 switch and a router.



The first topic linked below describes how to configure Layer 3 interfaces. The latter topic link describes how to use Neighbor Discovery Protocol (NDP) to provision IPv6 hosts and view the IPv6 addresses ...



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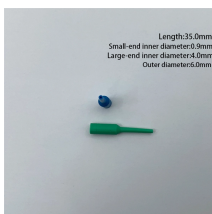
Below is a diagram that we can use as a reference in understanding how to configure Inter-VLAN routing and test inter-switch connectivity across the network before configuring its routing capability.



Layer 3 routing capabilities are available on most Cisco Meraki switches. This allows the switches to route traffic between VLANs in a campus network without the need for an additional layer ...



These switches are capable of taking routing decisions, support routing protocols, and can even inspect the Network Layer for the data frames received, but these Layer 3 Switches don't have ...



In this guide, we will walk through the configuration of a GWN78xx multilayer switch, connected to access switches that will result in an inter-VLAN routing.



The Layer 3 flex port support is helpful when there are multiple Layer 3 networks that need to be interconnected. With flex support, the Cisco IOS XE Catalyst SD-WAN device can be ...

## Contact Us

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