

How to configure a Layer 3 industrial Ethernet switch



Overview

This article covers basic and advanced configuration of Cisco Catalyst Layer-3 switches such as the Cisco Catalyst 3560G, 3560E, 3560-X, 3750, 3750E, 3750-X, 3850, 4500, 6500, 9300, 9400 series, and extends to include the configuration of additional features. This article covers basic and advanced configuration of Cisco Catalyst Layer-3 switches such as the Cisco Catalyst 3560G, 3560E, 3560-X, 3750, 3750E, 3750-X, 3850, 4500, 6500, 9300, 9400 series, and extends to include the configuration of additional features. A Layer 3 switch configuration enables inter-VLAN routing by combining traditional Layer 2 switching with Layer 3 routing capabilities. This eliminates the need for separate routers for each VLAN, improves network performance, and simplifies management. Predision offers advanced Layer 3 switches. This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert. To deploy EtherNet/IP plantwide at your facility, you need an industrial network design methodology. Copyright ©2016 Weidmüller Interface GmbH & Co. Reproduction without permission is prohibited.

Article Content

Industrial Ethernet Switch Selection Guide

Learn how to choose an industrial Ethernet switch for automation systems, Profinet networks, and reliable industrial PCBA deployment.

Configuring Layer 3 Interfaces

All Ethernet ports are switched interfaces by default. You can change this default behavior with the CLI setup script or through the system default switchport command. You can assign an IP address to the

Cisco C1300-8P-E-2G Layer 3 Switch | Ready to Ship

By Cisco® C1300-8P-E-2G – Catalyst 1300 switch with 8 PoE+ Gigabit ports, 2 combo uplinks, and Layer 3 managed networking support.

Manual managed Weidmüller Switches

Read this user's manual to learn how to connect your Weidmüller switch to Ethernet-enabled devices used for industrial applications. This chapter summarizes the main hardware and software features of

Cisco Industrial Ethernet IE-3010-24TC 24x 10/100 RJ45 2x 1GE

24 x 10/100 Fast Ethernet RJ-45 ports for copper connectivity 2 x dual-purpose Gigabit uplink ports (RJ45 or SFP, one active per port) Layer 2 switching with optional Layer 3 features (license

Industrial Layer 3 Switches | Managed Layer 3 Ethernet Switches

BlueWARRIOR Layer 3, Managed, Gigabit Industrial Ethernet switches support a variety of Fx ports & Tx ports in various interface configurations.

What is a network switch and how does it work?

What is a network switch? A network switch is a physical device that operates at the Data Link layer of the Open Systems Interconnection (OSI) model — Layer 2.

8-Port 10/100/1000Mbps Managed Industrial Ethernet Switch

8-Port 10/100/1000Mbps Managed Industrial Ethernet Switch PLANET IGS-801M is an 8-Port 10/100/1000Mbps Industrial Gigabit Ethernet Switch with non-blocking wire-speed performance and

Managed Layer 3 Industrial Ethernet Routing Switches | Westermo

The Westermo range of industrial layer 3 switches provides enhanced routing functionality, all in a robust, single unit design. Our switches offer static routing, IPSec VPN support, DMZ and a powerful

Cisco C9200L-48P-4X-E Layer 3 Switch | Ships Fast

The C9200L-48P-4X-E is a Cisco Catalyst managed Ethernet switch designed for secure access-layer connectivity and high-density PoE+ networking. Its combination of Gigabit access ports, 10G uplinks,

What Is Layer 3 Switch Configuration and How Does It Work? |

Layer 3 switch configuration is a vital skill for efficient network segmentation, inter-VLAN routing, and simplified infrastructure. By enabling IP routing, creating VLANs, configuring SVIs, and

Why and when do you need an Industrial Layer 3 switch?

Layer 3 routing protocol is becoming more and more important to industrial network topologies, such as intelligent transportation management and applications

Top 10 Recommendations for Plantwide EtherNet/IP Deployments

Develop a logical topology that uses both a multi-tier switch hierarchy (Layer 2 and Layer 3) and the logical model shown in Figure 2.

How to configure a Cisco Layer 3 Switch-InterVLAN

At the end of this article you will find also important routing configuration commands for the ASA and also how to use Access Control Lists (ACL) on the Layer 3

Example for Configuring a Layer 3 Switch to Work with a Firewall for ...

Layer 3 switches provide the routing function, which indicates a network-layer function in the OSI model. Layer 3 switches can work at Layer 2 and Layer 3 and be deployed at the access

Layer 3 Industrial Ethernet Switches | Industrial Grade

Explore industrial Layer 3 Ethernet switches designed for routing, VLAN control, and large-scale industrial networks. Rugged industrial grade L3 switches with

Configuration manual for industrial switch

December 6, 2024 Configuration manual for industrial switch In the IIoT and a wide range of industrial applications, industrial switches serve as the core devices for network connectivity. The correctness

Layer 3 Switches | Industrial Ethernet Switches | EtherWAN

Additionally, these Hardened / Industrial Ethernet switches support Virtual Router Redundancy Protocol (VRRP), which increases the availability and reliability of routing paths on an IP subnetwork. All lite

Basic & Advanced Catalyst Layer 3 Switch

Configuration commands covered in this article are applicable to all Cisco Catalyst Layer-3 switches.

How To Install And Configure Industrial Ethernet? | Guide

Key Takeaway To install and configure Industrial Ethernet, start by planning the network layout. Identify the devices to connect, such as PLCs, sensors, and actuators, and ensure you have the right

Cisco Catalyst 9000 Switching Family

Take control of your hybrid work with Catalyst 9000 enterprise LAN switching.

Cisco Industrial Ethernet Switching

Catalyst IE3300 Modular switch with 4PPoE, app hosting, asset visibility, mGig ports and 10G Uplinks

SCALANCE Layer 3 Switches Web Based Management (WBM) V6

This Configuration Manual is intended to provide you with the information you require to install, commission and operate IE switches. It is aimed primarily at planning, commissioning and

14 Best 10 G Ethernet Switches for High-Speed

With 14 top 10G Ethernet switches for 2025, discover the best options to elevate your high-speed network—continue reading to find your ideal match.

Cisco Products: Networking, Security, Data Center

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Cisco C9300-48P-A Ethernet Switch | Available Now

By Cisco® C9300-48P-A – Catalyst 9300 managed Ethernet switch with 48 PoE+ ports, modular uplinks, and Layer 3 routing support.

Stratix 5700 NAT With Layer 3 Routing

In this article we will be implementing Layer 2 NAT with Layer 3 Routing on a pair of Stratix 5700 NAT switches with Routing enabled.

Cisco C1300-12XS 10G Ethernet Switch | Fast Shipping

By Cisco® C1300-12XS – Catalyst 1300 managed switch with 10G SFP+ ports, Layer 3 routing, stacking support, and advanced security features.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.araziyahsafety.co.za>

Email: info@araziyahsafety.co.za

Phone: +27 72 418 3692

Address: 123 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

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