

# ARP Attack Prevention for Aggregation Switches



## Overview

Dynamic ARP protection is designed to protect your network against ARP poisoning attacks in the following ways: Allows you to differentiate between trusted and untrusted ports. Intercepts all ARP requests and responses on untrusted ports before forwarding them. Dynamic ARP inspection is not effective for hosts connected to switches that do not support dynamic ARP inspection or that do not have this feature enabled. ARP packets with invalid IP-to-MAC address bindings advertised in the source protocol address and source physical address fields. Dynamic ARP Inspection (DAI) is the security mechanism that prevents malicious ARP attacks by rejecting unknown ARP Packets. ARP attacks can be done as a Man-in-the-Middle Attack by an attacker. DAI validates ARP packets by checking them against a trusted DHCP binding table or static IP-to-MAC mappings, blocking malicious ARP responses.

## Article Content

Sep 03, 2025

Security Configuration Guide, Cisco IOS XE 17.17.x ...

With this configuration, all ARP packets entering the network from a given switch bypass the security check. No other validation is needed at any ...

Jan 25, 2026

Which Cisco Solution Helps Prevent ARP Spoofing And ARP Poisoning Attacks?

ARP spoofing and poisoning are serious threats to network security. Cisco's Dynamic ARP Inspection (DAI), combined with DHCP snooping, IP Source Guard, and port security, provides a ...

Aug 19, 2025

PoE+ Series Switches Attack Prevention Configuration Guide

When the number of IGMP, ARP or IP message that is sent by a host in a designated interval exceeds the threshold, we think that the host attack the network. You can select the type of attack prevention ...

Aug 31, 2025

Security Configuration Guide, Cisco IOS XE 17.17.x (Catalyst 9300 Switches)

With this configuration, all ARP packets entering the network from a given switch bypass the security check. No other validation is needed at any other place in the VLAN or in the network. ...

Nov 07, 2025

Dynamic ARP Inspection | DAI Configuration on Cisco Swithes \*

Dynamic ARP Inspection (DAI) protects against ARP Spoofing Attack, a Man-in-the-middle Attack and ARP Cache Poisoning. If Dynamic ARP Inspection (DAI) is enabled on the switch, if an attacker ...

Nov 01, 2025

ARP Security

To prevent attacks by invalid ARP packets, enable ARP packet validity check on an access or gateway switch to filter out ARP packets with invalid IP or MAC addresses.

Mar 13, 2026

Which Cisco Solution Helps Prevent ARP Spoofing And ...

ARP spoofing and poisoning are serious threats to network security. Cisco's Dynamic ARP Inspection (DAI), combined with DHCP snooping, IP ...

Dec 06, 2025

How to configure the switch to prevent ARP spoofing

This example will instruct the administrator on how to configure the switch to protect the network from attackers using the same IP Addresses of core network components (ex. servers or gateways).

Jul 04, 2025

How to Avoid ARP Poisoning?

Switch Security: Most Ethernet switches have features that can help mitigate ARP Poisoning attacks. These features are also known as Dynamic ARP Inspection (DAI) and help in ...

Sep 15, 2025

The ARP Attack Surface: Hardening Layer 2 Networks Against ...

Identify common ARP-based attacks such as spoofing, poisoning, and Man-in-the-Middle (MiTM). Implement and configure key mitigation techniques including Dynamic ARP Inspection (DAI) and ...

Apr 15, 2026

Dynamic ARP protection

Dynamic ARP protection is designed to protect your network against ARP poisoning attacks in the following ways: Allows you to differentiate between trusted and untrusted ports.

## Contact Us

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