

## vlan

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**Syntax**   vlan (all | *vlan-name*) {  
              (arp-inspection | no-arp-inspection);  
              dhcp-option82 {  
                  circuit-id {  
                      prefix *hostname*;  
                      use-interface-description;  
                      use-vlan-id;  
                  }  
                  remote-id {  
                      prefix *hostname* | *mac* | *none*;  
                      use-interface-description;  
                      use-string *string*;  
                  }  
                  vendor-id <*string*>;  
              }  
              (examine-dhcp | no-examine-dhcp);  
              (ip-source-guard | no-ip-source-guard);  
              mac-move-limit *limit* action *action*;  
          }

**Hierarchy Level**   [edit ethernet-switching-options secure-access-port]

**Release Information**   Statement introduced in JUNOS Release 9.0 for EX-series switches.  
                          Option **ip-source-guard** introduced in JUNOS Release 9.2 for EX-series switches.  
                          Option **dhcp-option82** introduced in JUNOS Release 9.3 for EX-series switches.

**Description**       Apply DHCP snooping, dynamic ARP inspection (DAI), IP source guard, DHCP option 82, and MAC move limiting.

                          The remaining statements are explained separately.

**Options**       all—Apply DHCP snooping, DAI, IP source guard, DHCP option 82, and MAC move limiting to all VLANs.

*vlan-name* —Apply DHCP snooping, DAI, IP source guard, DHCP option 82, and MAC move limiting to the specified VLAN.

**Required Privilege Level**   routing—To view this statement in the configuration.  
                              routing-control—To add this statement to the configuration.

- Related Topics**
- Example: Configuring Port Security, with DHCP Snooping, DAI, MAC Limiting, and MAC Move Limiting, on an EX-series Switch
  - Example: Configuring IP Source Guard with Other EX-series Switch Features to Mitigate Address-Spoofing Attacks on Untrusted Access Interfaces
  - Example: Setting Up DHCP Option 82 on an EX-series Switch with No Relay Agent Between Clients and DHCP Server
  - Enabling Dynamic ARP Inspection (CLI Procedure)

- Enabling DHCP Snooping (CLI Procedure)
- Configuring IP Source Guard (CLI Procedure)
- Configuring MAC Move Limiting (CLI Procedure)
- Setting Up DHCP Option 82 on the Switch with No Relay Agent Between Clients and DHCP Server (CLI Procedure)