

## ethernet-switching-options

---

**Syntax** ethernet-switching-options {  
    analyzer {  
        name {  
            loss-priority *priority*;  
            ratio *number*;  
            input {  
                ingress {  
                    interface (all | *interface-name*);  
                    vlan (*vlan-id* | *vlan-name*);  
                }  
                egress {  
                    interface (all | *interface-name*);  
                }  
            output {  
                interface *interface-name*;  
                vlan (*vlan-id* | *vlan-name*);  
            }  
        }  
    }  
    bpdu-block {  
        interface (all | [*interface-name*]);  
        disable-timeout *timeout*;  
    }  
    dot1q-tunneling {  
        ether-type (0x8100 | 0x88a8 | 0x9100)  
    }  
    interfaces *interface-name* {  
        no-mac-learning;  
    }  
    redundant-trunk-group {  
        group-name *name* {  
            interface *interface-name* <primary>;  
            interface *interface-name*;  
        }  
    }  
    secure-access-port {  
        dhcp-snooping-file {  
            location *local\_pathname* | *remote\_URL*;  
            timeout *seconds*;  
            write-interval *seconds*;  
        }  
        interface (all | *interface-name*) {  
            allowed-mac {  
                *mac-address-list*;  
            }  
            (dhcp-trusted | no-dhcp-trusted);  
            mac-limit *limit* action *action*;  
        }  
    }  
}

```

        no-allowed-mac-log;
        static-ip ip-address {
            vlan vlan-name;
            mac mac-address;
        }
    }
    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;
    }
}
storm-control {
    interface (all | interface-name) {
        level level;
        no-broadcast;
        no-unknown-unicast;
    }
}
traceoptions {
    file filename <files number> <no-stamp> <replace> <size size> <world-readable |
    no-world-readable>;
    flag flag <disable>;
}
unknown-unicast-forwarding {
    vlan (all | vlan-name) {
        interface interface-name;
    }
}
}
voip {
    interface (all | [interface-name | access-ports]) {
        vlan vlan-name ;
        forwarding-class <assured-forwarding | best-effort | expedited-forwarding |
        network-control>;
    }
}
}

```

**Hierarchy Level** [edit]

**Release Information** Statement introduced in JUNOS Release 9.0 for EX-series switches.  
Support for storm control and BPDU protection added in JUNOS Release 9.1 for EX-series switches.  
Option `ip-source-guard` added in JUNOS Release 9.2 for EX-series switches.  
Options `dhcp-option82`, `dot1q-tunneling`, and `no-allowed-mac-log` added in JUNOS Release 9.3 for EX-series switches.  
Option `dhcp-snooping-file` introduced in JUNOS Release 9.4 for EX-series switches.  
Options `interfaces` and `no-mac-learning` introduced in JUNOS Release 9.5 for EX-series switches.

**Description** Configure Ethernet switching options.

The remaining statements are explained separately.

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

**Related Topics**

- Understanding BPDU Protection for STP, RSTP, and MSTP on EX-series Switches
- Port Mirroring on EX-series Switches Overview
- Port Security for EX-series Switches Overview
- Understanding Redundant Trunk Links on EX-series Switches
- Understanding Storm Control on EX-series Switches
- Understanding 802.1X and VoIP on EX-series Switches
- Understanding Q-in-Q Tunneling on EX-series Switches
- Understanding Unknown Unicast Forwarding on EX-series Switches
- Understanding DHCP Snooping for Port Security on EX-series Switches

