

## ethernet-switching-options

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**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 {  
        disable-timeout *timeout*;  
        interface (all | [*interface-name*]);  
    }  
    dot1q-tunneling {  
        ether-type (0x8100 | 0x88a8 | 0x9100)  
    }  
    interfaces *interface-name* {  
        no-mac-learning;  
    }  
    mac-table-aging-time *seconds*;  
    port-error-disable {  
        disable-timeout *timeout*;  
    }  
    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*;  
        }  
    }  
}

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        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]

<b>Release Information</b>	<p>Statement introduced in JUNOS Release 9.0 for EX Series switches.</p> <p>Support for storm control and BPDU protection added in JUNOS Release 9.1 for EX Series switches.</p> <p>Option <code>ip-source-guard</code> added in JUNOS Release 9.2 for EX Series switches.</p> <p>Options <code>dhcp-option82</code>, <code>dot1q-tunneling</code>, and <code>no-allowed-mac-log</code> added in JUNOS Release 9.3 for EX Series switches.</p> <p>Options <code>dhcp-snooping-file</code> and <code>mac-table-aging-time</code> introduced in JUNOS Release 9.4 for EX Series switches.</p> <p>Options <code>interfaces</code> and <code>no-mac-learning</code> introduced in JUNOS Release 9.5 for EX Series switches.</p> <p>Options <code>port-error-disable</code> and <code>disable-timeout</code> introduced in JUNOS Release 9.6 for EX Series switches.</p>
<b>Description</b>	<p>Configure Ethernet switching options.</p> <p>The remaining statements are explained separately.</p>
<b>Required Privilege Level</b>	<p>routing—To view this statement in the configuration.</p> <p>routing-control—To add this statement to the configuration.</p>
<b>Related Topics</b>	<ul style="list-style-type: none"> <li>■ Port Mirroring on EX Series Switches Overview</li> <li>■ Port Security for EX Series Switches Overview</li> <li>■ Understanding BPDU Protection for STP, RSTP, and MSTP on EX Series Switches</li> <li>■ Understanding Redundant Trunk Links on EX Series Switches</li> <li>■ Understanding Storm Control on EX Series Switches</li> <li>■ Understanding 802.1X and VoIP on EX Series Switches</li> <li>■ Understanding Q-in-Q Tunneling on EX Series Switches</li> <li>■ Understanding Unknown Unicast Forwarding on EX Series Switches</li> </ul>

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