

[edit protocols] Configuration Statement Hierarchy

```
protocols {
  connections {
    remote-interface-switch connection-name {
      interface interface-name.unit-number;
      transmit-lsp label-switched-path;
      receive-lsp label-switched-path;
    }
  }
  dot1x {
    authenticator {
      authentication-profile-name profile-name;
      interface (all | [ interface-names ]) {
        disable;
        guest-vlan ( vlan-id | vlan-name );
        mac-radius <restrict>;
        maximum-requests number;
        no-reauthentication;
        quiet-period seconds;
        reauthentication {
          interval seconds;
        }
        retries number;
        server-fail (deny | permit | use-cache | vlan-id | vlan-name);
        server-reject-vlan ( vlan-id | vlan-name );
        server-timeout seconds;
        supplicant (multiple | single | single-secure);
        supplicant-timeout seconds;
        transmit-period seconds;
      }
      static mac-address {
        interface interface-name;
        vlan-assignment ( vlan-id | vlan-name );
      }
    }
  }
  gvrp {
    <enable | disable>;
    interface (all | [interface-name]) {
      disable;
    }
    join-timer milliseconds;
    leave-timer milliseconds;
    leaveall-timer milliseconds;
  }
  igmp-snooping {
    traceoptions {
      file filename <files number> <size size> <world-readable | no-world-readable>
        <match regex>;
      flag flag (detail | disable | receive | send);
    }
    vlan ( vlan-id | vlan-number ) {
      disable {
        interface interface-name

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    }
    immediate-leave;
    interface interface-name {
        group-limit limit;
        multicast-router-interface;
        static {
            group ip-address;
        }
    }
    query-interval seconds;
    query-last-member-interval seconds;
    query-response-interval seconds;
    robust-count number;
}
}
lldp {
    disable;
    advertisement-interval seconds;
    hold-multiplier number;
    interface (all | interface-name) {
        disable;
    }
    traceoptions {
        file filename <files number> <size size> <world-readable | no-world-readable>
        <match regex>;
        flag flag (detail | disable | receive | send);
    }
}
lldp-med {
    disable;
    fast-start number;
    interface (all | interface-name) {
        disable;
        location {
            elin number;
            civic-based {
                what number;
                country-code code;
                ca-type {
                    number {
                        ca-value value;
                    }
                }
            }
        }
    }
}
}
mpls {
    interface ( all | interface-name );
    label-switched-path lsp-name to remote-provider-edge-switch;
    path destination {
        <address | hostname> <strict | loose>
    }
}
mstp {
    disable;
    bpdu-block-on-edge;
}

```

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bridge-priority priority;
configuration-name name;
forward-delay seconds;
hello-time seconds;
interface (all | interface-name) {
    disable;
    bpdu-timeout-action {
        block;
        alarm;
    }
    cost cost;
    edge;
    mode mode;
    no-root-port;
    priority priority;
}
max-age seconds;
max-hops hops;
msti msti-id {
    vlan (vlan-id | vlan-name);
    interface interface-name {
        disable;
        cost cost;
        edge;
        mode mode;
        priority priority;
    }
}
revision-level revision-level;
traceoptions {
    file filename <files number > <size size> <no-stamp | world-readable |
    no-world-readable>;
    flag flag;
}
}
rstp {
    disable;
    bpdu-block-on-edge;
    bridge-priority priority;
    forward-delay seconds;
    hello-time seconds;
    interface (all | interface-name) {
        disable;
        bpdu-timeout-action {
            block;
            alarm;
        }
        cost cost;
        edge;
        mode mode;
        no-root-port;
        priority priority;
    }
    max-age seconds;
}
traceoptions {

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        file filename <files number > <size size> <no-stamp | world-readable |
            no-world-readable>;
        flag flag;
    }
}
sflow {
    collector {
        ip-address;
        udp-port port-number;
    }
    disable;
    interfaces interface-name {
        disable;
        polling-interval seconds;
        sample-rate number;
    }
    polling-interval seconds;
    sample-rate number;
}
stp {
    disable;
    bridge-priority priority;
    forward-delay seconds;
    hello-time seconds;
    interface (all | interface-name) {
        disable;
        bpdu-timeout-action {
            block;
            alarm;
        }
        cost cost;
        edge;
        mode mode;
        no-root-port;
        priority priority;
    }
    max-age seconds;
}
traceoptions {
    file filename <files number > <size size> <no-stamp | world-readable |
        no-world-readable>;
    flag flag;
}
vstp {
    bpdu-block-on-edge;
    disable;
    force-version stp;
    vlan vlan-id {
        bridge-priority priority;
        forward-delay seconds;
        hello-time seconds;
        interface (all | interface-name) {
            bpdu-timeout-action {
                block;
                alarm;
            }
        }
    }
}

```


- Understanding Server Fail Fallback and 802.1X Authentication on EX Series Switches
- IGMP Snooping on EX Series Switches Overview
- Understanding 802.1X and LLDP and LLDP-MED on EX Series Switches
- Understanding MSTP for EX Series Switches
- Understanding RSTP for EX Series Switches
- Understanding STP for EX Series Switches
- Understanding How to Use sFlow Technology for Network Monitoring on an EX Series Switch
- Understanding VSTP for EX Series Switches
- Understanding Ethernet OAM Link Fault Management for an EX Series Switch

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