

## [edit protocols] Configuration Statement Hierarchy

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```
protocols {
  dot1x {
    authenticator {
      authentication-profile-name access-profile-name;
      static {
        mac-address {
          vlan-assignment (vlan-id | vlan-name);
          interface interface-names;
        }
      }
    }
    interface (all | interface-name) {
      disable;
      guest-vlan (vlan-name | vlan-id);
      mac-radius <restrict>;
      maximum-requests seconds;
      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 (single | single-secure | multiple);
      supplicant-timeout seconds;
      transmit-period seconds;
    }
  }
  gvrp {
    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
      }
    }
  }
}
```

```

    immediate-leave;
    interface interface-name {
        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;
                    }
                }
            }
        }
    }
}
}
mstp {
    disable;
    bpdu-block-on-edge;
    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 {
        file filename <files number > <size size> <no-stamp | world-readable |
            no-world-readable>;
        flag flag;
    }
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;
    }
}
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;
}

```

- Related Topics**
- 802.1X for EX-series Switches Overview
  - Example: Configure Automatic VLAN Administration Using GVRP
  - Understanding 802.1X MAC RADIUS Authentication on EX-series Switches
  - 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

