

Configuring Loop Protection for a Spanning-Tree Instance Interface

Before you begin, you must fully configure the spanning-tree protocol, including instance interfaces. You can configure RSTP, MSTP, or VSTP at the following hierarchy levels:

- [edit protocols]
- [edit routing-instances *routing-instance-name* protocols]

To configure enhanced loop protection:

1. Include the `bpdu-timeout-action` statement with either the `block` or `alarm` option for the spanning-tree protocol interface.

- For the STP or RSTP instance on a physical interface:

```
[edit]
protocols {
  rstp {
    interface interface-name {
      bpdu-timeout-action (alarm | block);
    }
  }
}
```

- For all MSTP instances on a physical interface:

```
[edit]
protocols {
  mstp {
    interface interface-name {
      bpdu-timeout-action (alarm | block);
    }
  }
}
```

- For all VSTP instances on a physical interface configured at the global level or a the VLAN level:

```
[edit]
protocols {
  vstp {
    interface interface-name {
      bpdu-timeout-action (alarm | block);
    }
    vlan vlan-id {
      interface interface-name {
        bpdu-timeout-action (alarm | block);
      }
    }
  }
}
```

2. To display the spanning-tree protocol loop protection characteristics on an interface, use the `show spanning-tree interface operational` command.

- Related Topics**
- Loop Protection for Spanning-Tree Instance Interfaces Overview
 - Loop Protection for a Spanning-Tree Instance Interface
 - Example: Enabling Loop Protection for Spanning-Tree Protocols

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