sonet-options

Syntax

```
sonet-options {
    aps {
        [Unresolved xref] milliseconds;
        [Unresolved xref]-b
        authentication-key key;
        force;
        [Unresolved xref] milliseconds;
        lockout;
        neighbor address;
        paired-group group-name;
        protect-circuit group-name;
        request;
        revert-time seconds;
        switching-mode (bidirectional | unidirectional);
        working-circuit group-name;
    }
    bytes {
        c2 value;
        e1-quiet value;
        f1 value;
        f2 value;
        s1 value;
        z3 value;
        z4 value;
    }
    fcs (16 | 32);
    [Unresolved xref] (local | remote);
    mpls {
        pop-all-labels {
            required-depth number;
        }
    }
    path-trace trace-string;
    (payload-scrambler | no-payload-scrambler);
    rfc-2615;
    trigger {
        defect ignore;
        defect [Unresolved xref] up milliseconds down milliseconds;
    }
}
vtmapping (itu-t | klm);
(z0-increment | no-z0-increment);
```

Hierarchy Level [edit interfaces *interface-name*]

Release Information Statement introduced before JUNOS Release 7.4.

Description Configure SONET/SDH-specific interface properties.

On SONET/SDH OC48 interfaces that you configure for channelized (multiplexed) mode (by including the no-concatenate statement at the [edit chassis fpc *slot-number* pic *pic-number*] hierarchy level), the bytes e1-quiet and bytes f1 options have no effect. The bytes f2, bytes z3, bytes z4, and path-trace options work correctly on channel 0 and work in the transmit direction only on channels 1, 2, and 3.

On a channelized OC12 interface, the bytes e1-quiet, bytes f1, bytes f2, bytes z3, and bytes z4 options are not supported. The fcs and payload-scrambler statements are also not supported; you must configure these for each DS3 channel using the t3-options fcs and t3-options payload-scrambler statements. The aps and loopback statements are supported only on channel 0 and are ignored if included in the configurations for channels 1 through 11. You can configure loopbacks for each DS3 channel with the t3-options loopback statement. The path-trace statement can be included in the configuration for each DS3 channel, thereby configuring a unique path trace for each channel.

To configure loopback on channelized IQ and IQE PICs, SONET/SDH level, use the loopback statement local and remote options at the controller interface (coc48, cstm16, coc12, cstm4, coc3, cstm1). It is ignored for path-level interfaces so-*fpc/pic/port* or so-*fpc/pic/port*:*channel*.

If you are running Intermediate System-to-Intermediate System (IS-IS) over SONET/SDH interfaces, use PPP if you are running Cisco IOS Release 12.0 or later. If you need to run HDLC, configure an ISO family MTU of 4469 on the routing platform.

The statements are explained separately.

Usage Guidelines

See Configuring SONET/SDH Parameters on ATM Interfaces, [Unresolved xref], [Unresolved xref], and Configuring SONET/SDH Physical Interface Properties.

Required Privilege Level

interface—To view this statement in the configuration.
interface-control—To add this statement to the configuration.

Related Topics

no-concatenate in the *JUNOS System Basics Configuration Guide*