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NIC ASA 312 and NAA I Version 4.15 Update Notice

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About This Document

This document contains information about the version 4.15 features that are available for the Digital Lightwave NIC ASA 312 and NAA I.

The information in this update notice is not included in the *ASA 312 NIC and RAM User's Guide, Version 4.14* (CO 003202B). Please keep this document with your user's guide.

Features and Enhancements

The following is a list of features and enhancements included in version 4.15.

E1 Payload Loopback

This function allows you to transmit the received E1 payload in a frame formatted by the transmitting signal using an internal or recovered clock.

APS Measurements

The following APS measurement mappings have been included:

- OC-12/3 DS1 D/I
- OC-12/3 DS3 D/I
- OC-12 STS12c Pattern
- OC-3 STS3c Pattern

In each mapping, Out of Frame (OOF), Severely Errored Frames (SEF), and B1 errors are monitored, and the number of consecutively errored frames are counted.

To access the APS measurement function:

1. Select the **SONET** protocol processor.
2. Select **Transmit**.
3. Select **APS CMNDS**.
4. Select **APS Measure**. If you are running OC-48 mode, a warning window appears notifying you that functionality will be limited to OC-48 APS Measurements only. If you are running in OC-3 or OC-12 mode, continue to step 7.
5. To *accept*, select **OK**. To *cancel* the action, select **Cancel**.

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6. If you selected **OK**, the APS Measurement parameters appear.
7. Select **Protection Switch Criteria**.
8. Select **B1 Error** or **SEF/OOF Alarm**.
9. Select **Consecutive Good Time Required** or **Consecutive Good Frames Required** (these parameters are coupled). A key pad appears.
   - If **Consecutive Good Time Required** was selected, enter the duration (in milliseconds) of valid frames to occur before Protection Switching is confirmed to be activated. The range is 0.250 to 8,000 milliseconds, with the default being 200 milliseconds.
   - If **Consecutive Good Frames Required** was selected, enter the number of valid frames to occur before Protection Switching is confirmed to be activated. The range is 2 to 64000 frames, with the default being 1600 frames.
10. Select **Start** to begin measuring. The results will not include the number of good frames, but the number of frames that elapsed before the first good frame, meeting the entered criteria, occurred.
11. Select **Stop** to halt measurement.
12. Select **Exit** to disable the APS function.

Fractional T1

Fractional T1 functionality has been added to the NAA I. For more information, refer to the *ASA 312 and NAA I User's Guide*.

SCPI Commands

The following SCPI commands have been added to support the above functionality:

- **SOURce:APS:GOODframes (**Protocols Affected: SONET): This command sets the number of consecutive good frames required for the APS Protection Switch Measurement to show that the APS successfully switched.
- **SOURce:APS:GOODframes? (**Protocols Affected: SONET): This command queries the number of consecutive good frames required for the APS Protection Switch Measurement to show that the APS successfully switched.
- **SENSe:FREQOFF? (**Protocols affected: DS1, DS3, SONET)**:** This command queries the line frequency offset. The command then returns the offset in two comma-separated values. The first is the offset in kHz, and the second is the offset in PPM.

Customer Support

If you have any questions, please contact Technical Support at **1-877-929-HELP (4357)** or **1-800-548-9238**.

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