AJA-013

ATM Continuity Check

PURPOSE

The purpose of the continuity test is to indicate to the far-end Network Element (NE) that the Asynchronous Transfer Mode (ATM) connection is in service operating normally, even if no data traffic has been transmitted recently.

PREREQUISITES

The following conditions must be met before starting this procedure:

- Near-end and far-end NEs must be provisioned for ATM service per AJA-012.
- Cross-connections are established per AJA-014.

GENERAL

Clear any unexpected alarms that occur during these procedures by referring to the 1603 SM Maintenance and Trouble Clearing manual.
The continuity check may be activated by either of two methods: a manual method (with no interaction with the far-end NE), known as the TMN method; and a interactive method (using a handshaking protocol with the far-end NE), known as the OAM method.
The LIFB01 supports up to 32 bidirectional VP segment continuity processes on each ATM interface (one interface in ATM51M and two interfaces in STS1TERM). Both the LIFB01 and the LIF901 can activate a continuity source on any provisioned endpoint (VPSE, VPCE, VCSE, or VCCE).

Procedure

1. Do you want to activate or deactivate a VPL continuity check?

   If activate, go to step 2.
   If deactivate, go to step 3.

2. In the scope pane, right-click [*NE Name*] to display a context menu.

a. From the context menu, select: **Manual Controls>ATM Continuity Check**

b. Select the appropriate tab button for the type of ATM interface endpoint: VPL Seg, VPL Con, VCL Seg, or VCL Con.

c. For VPL Seg and VPL Con, select the STSn Path containing the VPL having the VPL continuity check activated.

d. Click on Retrieve.

NOTE: *VPL Seg lists data for TX NEND (transmit near end), TX FEND (transmit far end), RX NEND (receive near end), and RX FEND (receive far end).VPL Con lists data for RX NEND and RX FEND. VCL Seg and VCL Con list data for NEND and FEND.*

e. Select the VP or VC having the continuity check activated.

f. Select Activate/Deactivate Method: either OAM or TMN.

NOTE: *The TMN method is the manual method and the source (send) NE must be activated first, and then activate the sink (receive) NE. The OAM method is a handshaking method that coordinates activation of the continuity check. Activate/Deactivate Method = TMN applies to the local NE only and requires that the technician coordinate the continuity check process with the far-end NE.*

g. Select the Deactivate Level: Hard (deactivates regardless of far end response or no response) or Soft (deactivates only on receiving confirmation response from the far end)

NOTE: *The Deactivate Level parameter is not applicable for the activate process.*

h. For VPL Seg and VPL Con only: select the Flow Direction: Transmit or Receive.

NOTE: *Location allows activation of the VPL continuity check in either near-end-to-far-end direction (Transmit), far-end-to-near-end direction (Receive)).*

i. Click on Activate.

j. Click on Close; then go to step 4.

3. In the scope pane, right-click [*NE Name*] to display a context menu.

    a. From the context menu, select: **Manual Controls>VPL Continuity**

    b. Select the appropriate tab button for the type of ATM interface endpoint: VPL Seg, VPL Con, VCL Seg, or VCL Con.

    c. For VPL Seg and VPL Con, select the STSn Path containing the VPL having the VPL continuity check activated.

    d. Click on Retrieve.

    NOTE: *VPL Seg lists data for TX NEND (transmit near end), TX FEND (transmit far end), RX NEND (receive near end), and RX FEND (receive far end).VPL Con lists data for RX NEND and RX FEND. VCL Seg and VCL Con list data for NEND and FEND.*

    e. Select the VP or VC having the continuity check deactivated.

    f. Select Activate/Deactivate Method: either OAM or TMN.

    NOTE: *The TMN method is the manual method and the source (send) NE must be activated first, and then activate the sink (receive) NE. The OAM method is a handshaking method that coordinates activation of the continuity check. Activate/Deactivate Method = TMN applies to the local NE only and requires that the technician coordinate the continuity check process with the far-end NE.*

    g. Select the Deactivate Level: Hard (deactivates regardless of far end response or no response) or Soft (deactivates only on receiving confirmation response from the far end)

    NOTE: *The Deactivate Level parameter is not applicable for the activate process.*

    h. For VPL Seg and VPL Con only: select the Flow Direction: Transmit or Receive.

    NOTE: *Location allows activation of the VPL continuity check in either near-end-to-far-end direction (Transmit), far-end-to-near-end direction (Receive)).*

    i. Click on Deactivate.

    j. Click on Close.

4. STOP. This procedure is complete.