IBM 8260 NWAYS Multiprotocol Switching Hub

This release note applies

to

ATM Control Point Version 3.2.0
PNNI

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1 FIXES

All problems in the following list has been fixed in v3.2.0 operational code level.

1 In some configuration, 8260 internal LEC registration turns down with **cause 4** (duplicate LAN Destination Registration).

2 SAAL **Problems** when 8274's are connected to 8260 (UNI links).

3 8260 **Reset** when 8274 ports are configured in PNNI in the same cluster.

4 When a WAN2 (or A2WAN) blade is configured with 2 x DS3 daughter cards, **only one** card is managed and viewed by Network Management.

5 PNNI **Link Down** in case of multiple parallel links between two 8260's.

6 ILMI does not answer anymore "**No Such Name**" to an SNMP Get ATM Address Table.

7 MIB **Error** Correction (TrunkId, VCxIndex, ...).

8 DMM subset does **not work properly** when switch on Backup RCTL (Power Controller Module).

2 ENHANCEMENTS

1. PNNI Hierarchy Interworking support with V4.

> **IMPORTANT**:
> Prerequisite to integrate 8260 A-CPSW in PNNI Full Hierarchy network supported by 8265 A-CPSW V4.

2. ATM Kit Program support on ATM Carrier Module 1.5.

3. Frequency of Redundant A-CPSW diagnostics is configurable:

- Every hour when A-CPSW diagnostics are enabled.
- Every 24 hours when A-CPSW diagnostics are disabled.

A-CPSW diagnostics are enabled/disabled with the following commands*:*

SET DEVICE DIAGNOSTICS ENABLE

SET DEVICE DIAGNOSTICS DISABLE

3 KNOWN PROBLEM CURRENTLY BEING ADDRESSED

None with this code release.

4 CURRENT MIB INFORMATION

None with this code release

5 RELEASE HISTORY

1. IN CPSW OPERATIONAL MICROCODE VERSION **V.1.1.5** :

- MIB Version 1.1.
- Support of 8260 10-slot chassis.
- Code upgrade control.
- Unlimited combination of UNI/SSI ports.
- Automatic discovery of IBM 8282 workgroup concentrators.
- Link Aggregate for SSI and NNI configurations.

2. IN CPSW OPERATIONAL MICROCODE VERSION **V.1.2.9** :

- A-CPSW boot performance improvements.
- Support of the ATM 155 Mbps Flexible Concentration Module (A2-MB155) module.
- PNNI phase 0.
- Error log compression.
- Enhanced status display.
- Full multicast capability.
- 16 Virtual Paths (VP) per NNI port (4-bit VPI).
- Early Packet Discard, Partial Packet Discard.
- Reserved bandwidth support firewall.
- MIB Version 1.2.

3. IN CPSW OPERATIONAL MICROCODE VERSION **V.2.0.4** OR **V.2.0.8** :

- Support of the UNI Version 3.1.
- Optional ILMI Address Registration.
- Optional Flow Control for UNI Port.
- Support of SDH and SONET for A2-MB155 Module.
- Fixed Scrambling Scheme for A2-MB155 Module.
- Bandwidth Allocation Setting for SSI Interface.
- LAN Emulation Configuration Servers Address Advertisement.
- PVC Management from the CPSW Console.
- Serial Line IP Support for CPSW Console Port.
- Upload and Download of the CPSW Configuration.
- New Commands in Maintenance Mode.
- Compressed Image of the A-CPSW Operational Microcode.
- Support of MIB Version 1.3.
- Support of Nways 8260 TR/Ethernet LAN Bridge Module.
- Support of Nways 8260 ATM Carrier Modules.
- Improvements to Existing A-CPSW Commands.

4. IN CPSW OPERATIONAL MICROCODE VERSION **V.2.1.0** :

- LAN Emulation Client (LEC) Ethernet 802.3/DIX Ethernet.
- Increased number of connections.
- MIB version 1.4.
- Full Chassis monitoring.
- Redundant Switch support.
- DMM subset.

5. IN CPSW OPERATIONAL MICROCODE VERSION **V.2.2.2** :

- LAN Emulation Client (LEC) Token-Ring 802.5.
- Static Routes inside a single subnetwork.
- MIB version 1.5.
- DMM subset (full chassis monitoring).
- LAN emulation Server/Broadcast Unknown Server (LES/BUS).
- Switch Redundancy versus LES/BUS.
- MSS module support.
- 12 port 25 Mbps module support.
- WAN module support.

6. IN CPSW OPERATIONAL MICROCODE VERSION **V.2.4.0**, **V.2.4.3**, OR **V.2.5.0** :

- MIB version 1.6 (v.2.4.0).
- MIB version 1.7 (v.2.5.0).
- Variable range of VPC/VCC values.
- ABR flow control.
- Larger buffer size.
- A3-MB155 module support.
- PVC multipoint.
- Combo card support (v.2.5.0).
- 1 port 155 Mbps for A12TP25.

7. IN CPSW OPERATIONAL MICROCODE VERSION **V.3.0.0** :

- MIB version 2.0.
- ATM Interim Inter Switch Signalling (IISP).
- ATM Public Network-to-Network Interface (PNNI).
- VP tunneling.
- Link redundancy.
- Troubleshooting support/selective traces.
- Security.
- A8-WAN (E1T1).

8. IN CPSW OPERATIONAL MICROCODE VERSION **V.3.1.0** :

- MIB version 2.1.
- Super ELAN (Short Cut Bridging).
- Controler module download.
- 622 Mbps.
- Automatic migration of the peer group.

9. IN CPSW OPERATIONAL MICROCODE VERSION **V.3.1.7** :

- Improvement in detection of duplicate node id a Peer group.
- Improvement in connection traces.
- New command for stopping LEC thru a *"clear device ..."*. command.

10. IN CPSW OPERATIONAL MICROCODE VERSION **V.3.1.8** :

- Interoperability problem with adapters (MADGE, 8274, CISCO) which do not respect the standards.
- Longest matching prefixes routing - Performance improvement in routing, search time significantly reduced.
- New command to restart a failing PVC (...ACTIVATE).
- In case the 827x VPD image is incorrect, the module no longer resets when it is plugged in the 8260.
- T1 links load balancing improvement in case of link redundancy.

11. IN CPSW OPERATIONAL MICROCODE VERSION **V.3.1.9** :

- Minor changes to be year 2000 compatible while displaying date.
- After reset, all LECS addresses are restored.
- In some configuration we could have a LEC turned down due to the fact that the LECS is not yet ready. Now if this still occurs we record a message, and we retry the LEC connection
- Boot download toward new generation of AMD EEPROMs installed on new A-CPSW modules (Fru PN 25L4651 and 25L4652).

END OF DOCUMENT