

## **IBM 8260 NWAYS Multiprotocol Switching Hub**

**This release note applies**

**to**

**ATM Control Point Version 3.2.1  
PNNI**

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## WARNING

Before any 8260 v3.2.1 code download procedure, DO NOT perform any code download of the controller module : refer to the next page (FIXES point 1) for more details.

## 1 FIXES

- All problems in the following list have been fixed in v3.2.1 operational code level:
  - 1 When **downloading with the CP/SW (code version V.3.2.0 only)** to the active Controller module (FC8000), the **download was failing and the Controller could not recover**. The problem did not occur when downloading on the backup Controller module.
  - 2 When **resetting the OC-3/STM1 daughter card** and carrier module (V1.5), the **available bandwidth was set back to 52Mbps** maximum. The Daughter plus carrier had to be physically removed/reinserted to recover the full 155Mbps bandwidth.
  - 3 Some invalid messages were seen in the error log.
  - 4 The handling of “VCI and resources shortages” was not done properly when configured in “shortest path” path selection.
- For memory, all problems in the following list have 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 (starting from V.3.2.0)

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*

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### 3 KNOWN PROBLEM CURRENTLY BEING ADDRESSED

None with this code release.

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## 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** :

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- 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).
- Controller 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).

### 12. IN CPSW OPERATIONAL MICROCODE VERSION **V.3.2.0** :

- In some configuration, 8260 internal LEC registration turns down with cause 4 (duplicate LAN Destination Registration).
- SAAL Problems when 8274's are connected to 8260 (UNI links).
- 8260 Reset when 8274 ports are configured in PNNI in the same cluster.
- When a WAN2 (or A2WAN) blade is configured with 2 x DS3 daughter cards, only one card is managed and viewed by Network Management.
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