IBM 8285 NWAYS WORKGROUP SWITCH

This Release Note applies

to

ATM CONTROL POINT Version V.3.2.3

PNNI

IBM.

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1   FIXES

All problems in the following list have been fixed in v3.2.3 operational code level:

- ILMI robustness increased
- ILMI down due to a get_request message corrupted
- Duplicate address allowed
- Fatal in PS when interconnecting a Cisco router
- Ether type not reverted
- Interoperability with Fore (ABR metrics)
- Invalid call reference
- Large buffer not released

2 ENHANCEMENTS

◆ PNNI Hierarchy Interworking support with V4.

3 Known Problems Currently being addressed

No problem at writting time.

4   IMPORTANT INFORMATION.

Microcodes V.1.x are no longer supported.

Only V.3.2.3 is now supported.

If your 8285 has not been upgraded with MES 5509, P/N 10J2458 (memory upgrade), this microcode will not run.

Due to new functions integrated in releases 3.1.x and above,

**PVCS, STATIC ROUTES AND LOGICAL LINKS ARE NOT MIGRATED
when upgrading from SSI (v.1.x) to PNNI (v.3.x).**

Because of the major differences of operations between PNNI-1 (codes version 3.x) and SSI (codes version 1.x), all the PVCs are cleared, all the logical links and static routes are cleared.

The permanent virtual circuit (PVC) management involving several switches is not compatible with releases v.1.x of 8285 and releases v.3.x of 8285.

The suggested method to upgrade from v.1.x to v.3.x is to clear the configuration before applying the MES and upgrading the code.

5   NON PNNI TO PNNI UPGRADE

If this release is used to migrate from a non PNNI environment (code level 1.5x), it is recommended to download first the OPERATIONAL microcode, then issue the "swap ..." command to make it active, **BEFORE** downloading the BOOT microcode at new level.

6 NEW MIB.

None with this code release.

7 VERSION HISTORY

Microcodes V.1.x are no longer supported.

o IN 8285 OPERATIONAL MICROCODE VERSION V.1.2.0:
- Expansion Unit support
- LAN Emulation Client (LEC) Token-Ring 802.5
- Static Routes inside a single subnetwork
- MIB version 1.5
- 12 port 25 Mbps module support
- WAN module support

o IN 8285 OPERATIONAL MICROCODE VERSION V.1.3.0
- MIB version 1.6 (v.1.3.0).
- A3-MB155 module support

o IN 8285 OPERATIONAL MICROCODE VERSION V.1.4.3/V.1.5.0
- ABR flow control
- Variable range of VP/VC values
- PVC multipoint
- Larger buffer size
- MIB version 1.7 (v.1.5.0).
- 1 port 155 Mbps for A12-TP25 module (v.1.5.0)

Microcodes V.1.x are no longer supported.

o IN 8285 OPERATIONAL MICROCODE VERSION V.3.0.0:
  - MIB version 2.0.
  - ATM Interim Inter Switch Signalling (IISP).
  - ATM Public Network-to-Network Interface (PNNI).
  - Security.
  - VP tunneling.
  - Link redundancy.
  - Troubleshooting support, Selective traces.

o IN 8285 OPERATIONAL MICROCODE VERSION V.3.1.0:
  - MIB version 2.1.
  - Smooth Migration of ATM address and SSI links
  - Support for super-ELAN (shortcut) bridging.

o IN 8285 OPERATIONAL MICROCODE VERSION V.3.1.8:
  - Interoperability problem with adapters (MADGE, 8274, CISCO, ...) which doesn't 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 8285.
  - T1 links load balancing improvement in case of link redundancy.

o IN 8285 OPERATIONAL MICROCODE VERSION V.3.1.9 :
  - Minor changes to be year 2000 compatible while displaying date.
  - After a 8285 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 LECs connection
  - This code version allows the Boot download toward new generation of AMD EEproms installed on new CP/SW modules (Fru PN 25L4651 and 25L4652).

o IN 8285 OPERATIONAL MICROCODE VERSION V.3.2.0:
  - In some configuration, 8285 internal LEC registration turns down with cause 4 (duplicate LAN Destination Registration).
  - SAAL **Problems** when 8274's are connected to 8285 (UNI links).
  - 8285 **Reset** when 8274 ports are configured in PNNI in the same cluster.
  - When a WAN2 (or A8WAN) blade is configured with 2 x DS3 daughter cards, **only one** card is managed and viewed by Network Management.
  - PNNI **Link Down** in case of multiple parallel links between two 8260's.
  - ILMI does not answer anymore "**No Such Name**" to an SNMP Get ATM Address Table.
  - MIB **Error** Correction (TrunkId, VCxIndex, ...).
  - DMM subset does **not work properly** when switch on Backup RCTL (Power Controller Module).

o IN 8285 OPERATIONAL MICROCODE VERSION V.3.2.1:
   • When reseting an OC3/STM1 daughter card in a v1.5 carrier module, the available bandwidth was set back to 52 Mbps maximum. The daughter plus carrier had to be physically removed/reinserted to recover the full 155 Mbps bandwidth.
   • Some invalid messages were seen in the error log.
   • "VCI & resources shortages" handling was not done properly when configured in "shortest path" path selection.

o IN 8285 OPERATIONAL MICROCODE VERSION V.3.2.2:
   • 8285 Support ESCON and Frame Relay adapter
   • snmp pb fix : 8285 doesn't reset any more If query on OptionalFeatureHardwareVersion on the Bustech escon adapter
   • fix for CBR PVP between 8260/8285 and 8265
   • P2M connection from MSS to 8277 are flagged with frame discard : YES
   • When the VPC bandwidth was set to 2.5 Mbps, the number of SVCs were limited. The MaxCR variable on VPC became null, thus further connections were rejected.
   • ILMI: the correlator was not incremented during retry, thus causing link down under some particular conditions.
   • ILMI: do not reset correlator on trap received in state UP.(seen with MSS module special init).
   • ILMI: secure interface type value given to the CPT when the port is not in Auto mode
   • PNNI: Neighbor Duplicate node ID caused HUB reset
   • Eth or TR LEC reports that its AdminStatus is UP, when it should be DOWN. This incorrect status causes NWAYS Campus Manager to report the 8285 node as yellow instead of green.

Only V.3.2.3 is now supported.

END OF DOCUMENT