Addendum to the Release Notes for the 2.0 Software Release for Accelar 1000 Series Products

Software Release 2.0.2

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Introduction

This release note addendum for Accelar™ software release 2.0.2 describes the enhancements and bug fixes to the Accelar software that have been implemented in release 2.0.2. This document is an addendum to the *Release Notes for the Accelar 1000 Series Products Software Release 2.0* (Bay Networks® part number 896-00181-E). The 2.0 release notes and addendums are available on the 2.0 Software CD and on the Nortel Networks Customer Service Documentation Web page (*http://support.baynetworks.com/library/tpubs/nav/rtswitch/accelar.htm*).

Software release 2.0.2 includes updates to the run-time software only. The latest software components are:

- Run-Time Software Version 2.0.2 (acc2.0.2)
- Boot Monitor Software Version 2.0.1 (accboot2.0.1) supplied as a Boot Monitor Updater
- Device Manager Version 2.0.1 (for Microsoft® Windows® 95 or 98 and Windows NT®: dm_201.exe; for UNIX: dm_2.0.1.tar.Z)
- VLAN Manager Version 2.0.1 (for Windows 95/98/NT: dm_201.exe; for UNIX: dm_2.0.1.tar.Z)

For instructions to download the software, refer to *Upgrading to Accelar 2.0 Software* (Bay Networks part number 206077-A) found on the documentation CD and on the Nortel Networks Customer Service Documentation Web page. For descriptions of Accelar Release 2.0 software features and limitations, refer to the 2.0 release notes (Bay Networks part number 896-00181-E).

Note: Many of the new features in release 2.0 and above require modules and chassis (Accelar 1100/1150 routing switches) to be -B versions or above with ASICs that are ARU3 or above. Hardware with ARU1 or ARU2 ASICs does not support these features. For details refer to Accelar 2.0 documentation.

For the latest information about software issues, always refer to the Accelar Products site from the Nortel Networks Web page (*www.nortelnetworks.com*) or contact Nortel Networks Customer Support at 1-800-2LANWAN.

This addendum includes the following sections:

Recommendations and Information About Release 2.0.2

Note the following recommendations and miscellaneous information about Accelar software release 2.0.2:

- The new XLR1298SF SSF module has 32 megabytes (MB) of dynamic random access memory (DRAM). Although release 2.0.2 does not require 32 MB of DRAM, if you will be using RMON or are in a large OSPF routing environment and your switch SSF module is an XLR1297SF module with only 16 MB of DRAM, you should upgrade your SSF module to increase memory size to improve performance. A memory upgrade kit (AA0011017) is available for the XLR1297SF module to increase DRAM to 32 MB.
- When loaded on an XLR1297SF module with 16 MB of DRAM, IPX maximum RIP routes and maximum SAP entries are set to minimum values to conserve memory. If you are using IPX and require more IPX RIP routes or SAP entries, the values for IPX maximum RIP routes and maximum SAP entries can be reset by using the following CLI commands:

  — **config ipx set max-route <value>**

  — **config ipx set max-sap <value>**

  After resetting the parameters, save the configuration and reboot the switch.
- Always set a specific enforced operational configuration (eoc) mode (refer to the 2.0 Release Notes for more information) instead of allowing the default eoc mode (which is to the lowest level module in the switch) in order to avoid losing functionality in case a lower revision module is installed in the switch.
- Terminology has been modified in Device Manager and the command line interface (CLI) so that “trunk” is used only in reference to Multi-Link Trunking (MLT). What were previously referred to as *trunk ports* (in contrast to access ports) are now referred to as *tagged ports*.

New Features and Enhancements

The CLI command **show sys perf** has been enhanced to include the following CPU memory statistics:

- total memory size (16 or 32 MB)
- memory currently used (% of total memory)
- memory available (in KB)

The following example shows the display for this command:

```
Accelar-1200# show sys perf

    CpuUtil: 0%
    SwitchFabricUtil: 0%
    BufferUtil: 0%
    NVRamSize: 58 K
    NVRamUsed: 0 K

    DRamSize: 32 M
    DRamUsed: 49 %
    DRamFree: 16660 K
```

Bugs Fixed in Release 2.0.2

The following sections list bugs that were fixed in Accelar software release 2.0.2.

General

The following general bugs were fixed in this release:

- VLANs can now be configured for user-defined protocols of type FEFE (DecNet5/OSI). (95702)
- Copying scripts files to or from the flash or PCMCIA with TFTP no longer corrupts the file (99972,100549), and the target file name is respected. (99973)
- The DHCP banner in the **show ip dhcp counters** command is spelled correctly. (100958)
- Intermittent failures to save configuration to NVRAM have been corrected. (102058)

- Interrupting save to standby NVRAM will no longer corrupt local NVRAM. (102138)
- Gigabit LinkSafe™ failover now continues to function properly after making the standby port the primary connector in Device Manager (102388), or when switching over to the redundant SSF. (102808)
- Out-of-memory situations are properly handled and tracked by trace messages. (103349)

CLI

The following CLI bugs were fixed in this release:

- The agetime is included for all types of VLANs in the display for the CLI command **show config**. (No CR #)
- The "advertise-when-down" option has been added in port/ip/rip and vlan/ip/rip in the display for the CLI command **show config**. (No CR #)
- Filter IDs are now properly ordered in the display for the CLI command **show config**. (No CR #)
- The IGMP snoop state is now properly displayed in the display for the CLI command **show vlan info snoop**. (No CR #)

IP

The following IP bugs were fixed in this release:

- Connectivity problems in specific topologies have been resolved. These problems could occur when IP packets with the same source IP address from a subnet configured on the switch were received from different ports. (92358, 93104, 93984, 94135)
- Default route and static route can now be used for remote management of the switch when IP forwarding is disabled (layer 2 only configurations). (96221).
- ICMP echo requests with a range between 32740 and 32759 are now discarded. (99898).
- When configuring a port as an isolated router port (IRP), it will now be removed properly from any IP protocol-based VLAN or IP subnet-based VLAN for which it was previously configured. (100540, 100548)

- Response times for ICMP echo requests from the Accelar routing switch are now reported with 1 ms increments rather than 16 ms increments. (100725)
- The Accelar routing switch no longer responds with a source IP address of 0.0.1.1 when it receives packets sent to TCP ports “echo” or “discard.” (100918)
- ARP requests are now properly resolved on port-based VLANs when overlapped with IP subnet-based VLANs. (101011)
- The console remains accessible while attempting to resolve IP addresses of local hosts when the CPU goes to 100% utilization. (101076)
- ARP replies with the same IP address as the Accelar interface are now discarded. (103083)
- IP host addresses now get resolved on IP subnet-based VLANs. (102813, 102822)
- The default route will follow the next-hop device when it is moved to another port. (102603)

OSPF

The following OSPF bugs were fixed in this release:

- Fragmented OSPF packets now get properly reassembled. (90895)
- OSPF adjacencies are no longer affected when specific ports in an MLT group become inactive. (100662)

IPX

The following IPX bugs were fixed in this release:

- IPX RIP and SAP advertisements now are paced properly. (No CR #)
- IPX protocol-based VLANs do not allow for IP routing. (100695)

Known Issues in Release 2.0.2

VRRP and MLT

The following VRRP and MLT issue exists in this release:

- In an unlikely configuration where you have more then two Accelar units connected with MLTs in a serial configuration running VRRP, it is possible that if an MLT link goes down, then back up, the VRRP advertisement messages will not be seen by all Accelar units. (99150)

IPX

The following IPX issues exist in this release:

- The Accelar routing switch uses an incorrect source MAC address when routing IPX packets. (103815)
- IPX broadcast is routed and switched over a tagged link. (102435)
- IPX broadcast is routed when received on a VLAN with no IPX capability. (102436)
- The IPX routing table is not updated properly, causing RIP to loop continuously. (103146)
- The IPX header checksum should not be modified. (103173)
- IPX hop count is not incremented when forwarding broadcast. (103212)
- The Accelar routing switch routes IPX packets when links come up, even if the forwarding parameter is disabled. (102415)
- IPX routes learned through RIP for a VLAN with forwarding disabled are incorrect. (102419)

Known Problems in Release 2.0.2

For a list of Known Problems, refer to the *Release Notes for the Accelar 1000 Series Products Software Release 2.0* (Bay Networks part number 896-00181-E).