Addendum to the Release Notes for the 1.3 Software Release for Accelar 1000 Series Products

Software Release 1.3.5

4401 Great America Parkway
Santa Clara, CA 95054

8 Federal Street
Billerica, MA 01821

Part No. 204767-G
May 1999

NORTEL NETWORKS™

4401 Great America Parkway
Santa Clara, CA 95054

8 Federal Street
Billerica, MA 01821

Trademarks

Bay Networks is a registered trademark of Bay Networks, Inc.

Accelar and the Bay Networks logo are trademarks of Bay Networks, Inc.

All other trademarks and registered trademarks are the property of their respective owners.

Statement of Conditions

In the interest of improving internal design, operational function, and/or reliability, Bay Networks, Inc. reserves the right to make changes to the products described in this document without notice.

Bay Networks, Inc. does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein.

Introduction

This release note addendum for Accelar software release 1.3.5 describes the enhancements and bug fixes to the Nortel Networks® Accelar™ software that have been implemented since release 1.3.4. This document is an addendum to the *Release Notes for the Accelar 1000 Series Products Software Release 1.3* (Bay Networks part number 896-00181-D). For information about the changes between release 1.3.1 and 1.3.4, refer to *Addendum to the Release Notes for the 1.3 Software Release for Accelar 1000 Series Products* (Bay Networks part numbers 204767-B through 204767-F).

Software release 1.3.5 includes updates to the boot monitor and run-time software. The latest software components are:

- Run-Time Software version 1.3.5 (acc1.3.5)
- Boot Monitor Software version 1.3.5 (accboot1.3.5)

Software release 1.3.5 is managed by Device Manager and VLAN Manager version 1.3.4 or higher (dm_134.exe for Windows and dm_1.3.4.tar.z for UNIX).

Caution: Before upgrading your software from either version 1.3.0 or version 1.3.1, back up or save your current configuration file. The version 1.3.5 configuration files contain configuration options that are not compatible with 1.3.0 and 1.3.1 run-time images. It is important to back up or save the current configuration file before upgrading in case you must revert to a previous version of the run-time image.

Note: Software release 1.3.4 and higher resolves a situation in ARU3 (-B version) hardware that causes connectivity problems. Although software release 1.3.3 does include support for the ARU3 (-B version) hardware in ARU2 mode, Nortel Networks recommends that you use only release 1.3.4 or higher. In order to use the new ARU3 functionality, such as IPX routing, software release 2.0 or higher is required.

Refer to the version 1.3 release notes for instructions to download the software. Those release notes were provided in hard copy with the 1.3 software. You can also find the release notes on the 1.3.1 Software CD and on the Nortel Networks Customer Service Documentation Web page.

This addendum includes the following sections:

SSF Module Memory Upgrade

The new XLR1298SF Silicon Switch Fabric (SSF) module has 32 megabytes (MB) of dynamic random access memory (DRAM). Although release 1.3.5 does not require 32 MB of DRAM, if you will be using a 4 MB RMON buffer or are in a large OSPF routing environment and your switch SSF module is an XLR1297SF with only 16 MB of DRAM, Nortel Networks recommends that you either reduce the size of the RMON buffer or upgrade your SSF module to increase memory size for improving performance. A memory upgrade kit (AA0011017) is available for the XLR1297SF to increase DRAM to 32 MB.

VRRP Configuration Clarification

If the same VRRP IP address has different virtual router IDs (VRIDs) on different switches, problems can occur in differentiating between master and backup routers. VRIDs must always be the same for the same IP address. In addition, the VRRP IP address must not be the same as the IP address used to manage the switch for Device Manager.

TCP Connect

The TCP connect feature is only applicable when the filter has an effective action mode of forward. Such a filter must either have an explicit action mode of forward or have an action mode of default and be applied to a port with a default action of forward.

New Features and Enhancements

The following new features and enhancements were added in release 1.3.5:

- Accelar software release 1.3.5 adds support for additional types of onboard flash memory on the SSF modules. These changes do not affect the user interface or any other Accelar modules, and there are no changes in capacity or functionality of the flash memory supported in this release.

Note: In order to support the additional types of onboard flash memory, both Runtime S/W and Boot monitor S/W must be upgraded.

- The CLI *show sys perf* command has been enhanced to include the following CPU memory statistics: (101557)
  - — total memory size (16 or 32 Mbytes)
  - — memory currently used (percent of total memory)
  - — memory available (in Kbytes)

  Example:

```
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 1.3.5

The following sections list bugs that were fixed in release 1.3.5.

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 the flash or PCMCIA via TFTP will no longer corrupt the file (99972) and the target filename will be respected. (99973)
- This release resolves a situation where Gigabit modules could lock up under heavy multicast traffic.

IP Routing

The following IP routing bugs were fixed in this release:

- ICMP echo requests with a range between 32740 and 32759 are now discarded. (99898).
- When a port is configured as an isolated routing port (IRP), it will now be properly removed from any IP protocol-based VLAN or IP subnet based VLAN of which it was previously a member. (100540, 100548)
- Response times for ICMP echo requests from the Accelar routing switch are now reported with 1ms increments rather than 16 ms increments. (100725)
- The Accelar routing switch will no longer respond with a source IP-address of 0.0.1.1 when it receives packets sent to TCP ports “echo” or “discard.” (100918)
- Address Resolution Protocol (ARP) requests are now properly resolved on port-based VLANs when overlapped with IP subnet based VLANs. (101011)
- This release resolves a situation where the CPU could go to 100% utilization and the console becomes inaccessible when attempting to resolve IP addresses of local hosts. (101076)
- The routing switch failures with “arIpLookup: Consistency check failed” messages in the logfile have been resolved. (101393)

Known Issues in Release 1.3.5

The issues listed in the following sections are known to exist in release 1.3.5.

General

The following general issues exist in this release:

- After a failed save to NVRAM, such as with a configuration that is too large, the NVRAMUsed value indicates 0 (zero) K used. To recover from this state, perform a successful save to NVRAM or reset the switch. (85632)
- Syslog stops sending messages to the host if the local log file gets too full or otherwise cannot write to the flash file system. (85398)
- Interrupting a save to standby NVRAM can result in corruption of the NVRAM. (102138)

IP Routing

The following issues related to IP routing exist in this release:

- When routing, the Accelar switch does not discard datagrams with a bad destination IP address. Instead, the switch sends an ICMP destination unreachable message. (85280)
- When used as a router, the Accelar switch responds to datagrams that have a bad source IP address. (85281)
- When an OSPF neighbor is reset, the Accelar routing switch console may display an erroneous message “rclpAddRoute: NULL pRent! x.x.x.x” or “CannotFind! route: x.x.x.x mask: x.x.x.x next hop: x.x.x.x”

VRRP

In certain VRRP configurations with a DHCP relay agent enabled, DHCP clients may receive duplicate replies.

OSPF

Fragmented OSPF packets are not reassembled. (90895)

Multi-Link Trunking

The following issues related to Multi-Link Trunking (MLT) exist in this release:

- A port “flapping” in an MLT group causes BPDUs to be sent out irregularly on all ports. (96527)
- It should not be possible to configure ports in an MLT group as isolated routing ports (IRPs). (102476)