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

Software Release 1.3.4

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Introduction

This release note addendum for Accelar software release 1.3.4 describes the enhancements and bug fixes to the Bay Networks® Accelar™ software that have been implemented since release 1.3.3. 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 1.3.3, refer to *Addendum to the Release Notes for the 1.3 Software Release for Accelar 1000 Series Products (Bay* Networks part number 204767-B through part number 204767-D).

Note: Software release 1.3.4 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, Bay 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.

Software release 1.3.4 includes updates to the boot monitor and run-time software. The latest software components are:

- Run-Time Software version 1.3.4 (acc1.3.4)
- Boot Monitor Software version 1.3.4 (accboot1.3.4)

Software release 1.3.4 is managed by Device Manager and VLAN Manager version 1.3.4 (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 1.3.4 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.

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 Bay Networks Customer Service Documentation Web page.

This addendum includes the following sections:

New Features and Enhancements

The following new features and enhancements were added in release 1.3.4:

- The VRRP implementation has been changed to allow interoperability between Accelar routing switches and Bay Network routers.

Caution: These changes make VRRP incompatible with earlier software versions (1.3.3 and below). Only use release 1.3.4 VRRP with release 1.3.4 on both switches or in combination with release 2.0 or higher.

- The trap receiver table and SNMP community can now be seen from the CLI using the following commands:

```
show sys snmp trap-recv
show sys snmp community
```

Bugs Fixed in Release 1.3.4

The following sections list bugs that were fixed in release 1.3.4.

General

The following general bugs were fixed in this release:

- Configuration changes are now properly tracked, which eliminates unnecessary warning messages upon exiting Device Manager when no changes were made. (96710)
- User-Defined protocol-based VLANs are now properly saved in the configuration file. (94644)

- The real-time clock on the CPU-module can now be set using a 4-digit calendar year, and the user is no longer required to enter the day of the week. The week day is now calculated automatically by the system. (96546, 96593)

Note: The real-time clock in the routing switch allows for calendar years between 1998 and 2097. Input outside this range will be rejected.

- An informational message has been added to the log file to allow the user to distinguish between time reported in clock ticks and actual time and date from the real-time clock. (96599)

IP Routing

The following IP routing 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 belonging to one of the subnets configured on the switch were received from different ports. (92358, 93104, 93984, 94135)
- Routed traffic from an IP subnet-based VLAN on a Gigabit Ethernet interface now gets switched directly without CPU interaction. (97834)
- IP datagrams with a wrong “Total Length” directed to the switch are now discarded by the switch. (95456)
- The software now continues to process address resolution protocol (ARP) broadcasts when there is more than one IP subnet-based VLAN per port and one of the IP subnet-based VLANs is deleted.

Multi-Link Trunking

The following bugs related to Multi-Link Trunking (MLT) were fixed in this release:

- Multi-Link Trunking 802.1Q trunks can now cover multiple spanning tree groups. The connectivity failures that resulted if an 802.1Q tagged Multi-Link Trunk (MLT) was configured for multiple spanning tree groups have been resolved in this release. (90775)
- Bridge Protocol Data Units (BPDUs) are no longer forwarded over all links of an MLT group when Spanning Tree Protocol is disabled. (95421)

- Multicast OSPF hellos are no longer forwarded over all links in an MLT group. (98848)
- Local ARP entries are no longer cleared when a port within an MLT group is administratively brought down. (96038)
- The autonegotiation configuration of MLT ports is now correctly saved and will persist when the switch is reset. (94106)
- MLT can now be configured properly for IP protocol-based VLANs. (95572)
- Configurations with Spanning Tree Protocol disabled on MLT ports can now be properly saved. (95927)

VRRP

The following bug related to Virtual Router Redundancy Protocol (VRRP) was fixed in this release:

- VRRP master/backup relationships are now properly formed in configurations where three or more switches are daisy-chained on the same network.

OSPF

The following bugs related to Open Shortest Path First (OSPF) protocol were fixed in this release:

- When an interface goes down, this action is now reflected properly in the summary link state address (LSA). (90581)
- Resetting OSPF transit routers can no longer result in crashing intermediate transit routers. (97818)
- When receiving a new LSA from the OSPF backup designated router (BDR), the OSPF designated router (DR) no longer floods the LSA back out but does a “delay acknowledge” instead. (90801)

SSF Module Memory Upgrade

The new XLR1298SF SSF module has 32 megabytes (MB) of dynamic random access memory (DRAM). Although release 1.3.4 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, Bay 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.

Static Route Redistribution Clarification

Beginning with software release 1.3.0, all route distribution across different entities (static, RIP, or OSPF) must be configured in IP announce policies. This requirement means that static routes must be configured in a RIP or OSPF announce policy in order to be advertised in those protocols.

Known Issues in Release 1.3.4

The issues listed in the following sections are known to exist in release 1.3.4

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)

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)

VRRP

The following issues related to VRRP exist in this release:

- If the same VRRP IP address has different virtual router IDs (VRIDs) on different switches, problems can occur in differentiating between master and backup router. 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. VRRP IP addresses do not respond to ping requests whether they are local or remote interfaces.

Warning: The VRRP implementation of software release 1.3.4 is not compatible with previous software versions. Use release 1.3.4 VRRP only if release 1.3.4 is on both switches or in combination with release 2.0 or higher.

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

OSPF

The following issue related to OSPF exists in this release:

- Fragmented OSPF packets are not reassembled. (90895)

MLT

The following issue related to MLT exists in this release:

- A port “flapping” in an MLT group causes BPDUs to be sent out irregularly on all ports. (96527)