

# Nortel Networks™

Technical Solutions Center

## Customer Support Bulletin

**Number:** CSB- 0104002

**Released:** 4/18/2001

**Subject:** Passport 8600/8100/Device Manager Software filtering related problem workarounds and fixes

**Product:**

| Product Name / Designation(s)             | Model/Order Number(s) | Part Number(s) | Model Functional REVISION Number(s) |                |
|---|-----------------------|----------------|-------------------------------------|----------------|
|   |                       |                | Potentially Affected                | Corrected      |
| Passport 8600 SW V3.0                     | DS1410003-3.0         | N/A            | Code Revision 3.0.1 and 3.0.2       | Revision 3.0.3 |
| Passport (Accelar) 1000 SYS/MGMT SW 2.0.7 | DJ1410001-2.0.7       | N/A            | Code Revision 2.0.7                 | NA             |
| Device Manager 3.1.1                      | DS1410003-3.0         | N/A            | Code Revision 3.0.2.0               | Revision 3.1.2 |

### Description:

A significant number of Passport 8600 filtering issues from the software revisions 3.0.1 and 3.0.2 have been reported. Passport 1000 and the Device Manager software also have recorded filtering issues. Due to the frequency and severity of the issues, a communication of the specific software bug and respective configuration workaround to the customers of Nortel Networks is warranted.

### Discussion:

The following lists the Passport 8600 filtering issues relevant to the 3.0.1 and 3.0.2 versions of code. They are fixed in the version 3.0.3 release of code.

– CRs 139807/138841/142618. Ordering problems:

When applying filters to a port, the filters must be applied in order of least specific to most specific.

Notes: **Less/least specific** - a route/filter whose netmask is lower than another i.e. 10.10.0.0/16 is less specific than 10.10.10.0/24.

**More/most specific** - a route/filter whose netmask is greater than another i.e. 10.10.10.0/24 is more specific than 10.10.10.0/23

Solution: Apply filters in order of least specific to most specific, even if it is coming in wrong order. This does not reflect the order in which the filters are processed on a per packet basis. Each packet will be compared first with the most specific filter and continue on to a less specific filter till it reaches the least specific filter.

- Issue: Enabling filtering on a group of ports

Solution: When enabling filtering on a group of ports, the ports must be enabled in order from the port that has the least specific filter (of all ports), to the port that has the most specific filter (of all filters on all ports)

- Issue: Source and destination filter list designation

Solution: Source and destination filters list must be separated from each other.

- CRs 137793 / 140465 / 141275: Filters are not applied on the switch IP address.

Solution: Filters must be applied on all IP addresses.

- CRs 141284/142276: Currently the procedure is to attach filters to existing ARP and route entries.

Solution: To make a filter work, the 8600 must contain an ARP or exact routing entry. If it contains only less specific routing entry, then the filter will not be applied. Example: filter to drop all traffic from 10.10.10.0/24 will not work if 8600 contains routing entry 10.0.0/16 gateway.

The following lists the filtering issues associated with the Passport 1000 and the Device Manager:

- CR 142278 Source Destination filter not work on port list (Passport 1000 version 2.0.7 software code).

Solution: Wrong fix for CR 125933. All related CR's verified my test engineering.

- CR 141717 Unable to configure IP filter using Device Manager 3.1.1 with 3.0.2.0 code.

Solution: Filters are configurable through the CLI. Issue fixed in DM 3.1.2.

### **Resolution:**

In issuance of this customer support bulletin, Nortel Networks advises our customers who are running the affected software versions and experiencing these filtering issues of the workarounds, and encourages migrating to the next version of software for a permanent fix. Please check the Nortel Networks Web Site "[support.nortelnetworks.com](http://support.nortelnetworks.com)" for the specific software availability or contact Global Technical Support for assistance.

### **Contact Information:**

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