Web Switch
Software Release 10.0.34.1

1. Release Summary

Release Date: April-2006
Purpose: Software patch release to address customer found software issues.

2. Important Notes Before Upgrading to This Release

The Web Switch AD4 and 184 were Manufacture Discontinued in April 2005. In accordance with Nortel's software support policy 10.0.34.1 is the last 10.0 release for the AD4 and 184 switch platforms and 10.0.34.0 was the last 10.0 support for WSM platform.

The Web Switch AD3 and 180e were Manufacture Discontinued in November 2003. In accordance with Nortel's software support policy 10.0.33.0 was the last 10.0 release for the AD3 and 180e switch platforms.

3. Platforms Supported

Web Switch AD4, 184

4. Notes for Upgrade

Please see "Web OS 10.0 Release Notes for the Web OS Traffic Control Software " (Part No. 212776-B, available at http://www.nortel.com/support, select Alteon family, then WebOS Traffic Control Software, then Documentation) for details on how to upgrade your Web Switch.

File Names For This Release

File Name	Module or File Type	File Size (bytes)
100341-184.zip	AD4/184 BIN, BOOT, IMG	2208278
100341-184bwm.zip	AD4/184 BWM BIN, BOOT, IMG	2289291
100341-mibs.zip	Web OS MIB Definition files	81863

5. Version of Previous Release

Software Version 10.0.34.0

6. Compatibility

N/A

7. Changes in This Release

Q01309362 Out of Order packets will no longer result in SEQ number problem on server site with L7 SLB disabled and DBIND enabled.

Q01284144-03 Changes in DST for 2007.

Q01089976 PBIND cookie session entries are now properly added to persistent port in the session table of active switch after failover in case of VRRP Hot Standby.

8. Outstanding Issues

N/A

9. Known Limitations

Refer to 10.0.34.0 known limitations.

10. Change History of Previous Releases

10.0.34.0:

New Features in This Release

Q01106337 PBIND Cookie Passive and Rewrite now support a wildcard before the cookie name. For example: *Cookie will match any cookie name where Cookie is at the end of the cookie name: TestCookie=xyz. Please note, this should be used with care. If there are multiple cookies in the client request or server replies that match, the first match will be used.

Q01298789 Added method "SEARCH" to the list of supported Layer 7 HTTP methods.

Old Features Removed From This Release

N/A

Problems Resolved in This Release

General

Q00868456-02 Added a configuration validation check to prevent enabling delayed binding when nonat is enabled.

Q01026947-01 SNMP agent code memory leak. Addressed numerous locations in the SNMP code that could result in memory leaks and/or switch panics.

Q01063758-02 When using the HTTP precedence configuration URLSLB AND HOST, HTTP requests are not dropped when the HOST field in the request is empty.

Q01101442-04 If a back up server has been activated for a failed primary server or group and fails, when it recovers, it would not be reactivated.

Q01115128 Pinging a VIP from the CLI fails when the VIP is incorrectly added to a SP FDB.

Q01134050 Using a 3-switch VRRP configuration, a failure of the MASTER can cause a MP Watchdog panic on one of the backup switches during fail over.

Q01135113 Added configuration validation warning when configuring PIP and RTSP services. RTSP does no support PIP traffic.

Q01135131 Removing a VLAN from a Spanning Tree Group fails when applying the change. To make the change, it required applying the changes twice.

Q01137417 In configurations using WAP Persistence, after making any configuration changes and applying them, WAP persistent entries are no longer created.

Q01137431 Virtual Service port Radius-Acc generates a unknown port error and removed from the configuration on switch reboot (Applies to 10.1.4.0 only)

Q01137437 When adding Rports to real servers, they are sometimes applied to the wrong real server.

Q01138157 Prevent a port from being added to multiple VLANs when tagging is disabled.

Q01138324 WSM Only: After revert apply; the switch sometimes incorrectly retains parts of the previous configuration.

Q01138377 When deleting a VLAN, the IP interface associated with the VLAN goes down before the configuration changes are applied.

Q01144911-03 Configuration validation checks for duplicate real server IP addresses fail for Real Servers 256 – 1024.

Q01152600 GSLB returns malformed replies when processing Ipv6 only (A6/AAAA) DNS queries.

Q01159010-03 PANIC: Switch panics when a hex number is configured in an advanced health check formula.

Q01161412 Added a configuration validation check to prevent a IP Interface and a Virtual Server being configured with the same IP address.

Q01176466 PANIC: Attempting to telnet to a long invalid IP address could cause a buffer overflow and a switch panic.

Q01199568 Panic: Forcing the VRRP master router to failover to backup causes the switch to panic.

Q01214717 /cfg/dump would not correctly dump defined real servers greater then real server 256.

Q01236401 Applying changes to filters will not take effect until the switch is reset.

Q01247717 SNMP MIB walk times out in the GSLB tree because of changes made for CR Q00750439.

Q01253601 QTYPE LOC DNS queries will result in incorrect reply packets; the query should be refused.

Q01253648 Removed the RA (recursion available) flag in DNS replies.

Q01290205 Virtual servers with backup real servers with multiple rports show NO SERVICES UP after applying any new settings even though the real server continues to be shown as UP.

Q01339694 Panic: Accessing a null or corrupted Telnet session pointer could cause the switch to panic.

Q01355303 Panic: When configuring PBIND Cookie Insert, entering a very large expiration date in days (larger integer value) the switch will experience a Watch-dog panic while processing the expiration date.

Layer 2

N/A

Layer 3

Q01059771	SSHv1 connections failed using F-Secure and WRQ Reflections SSH client.
Q01140928	External clients can still ping a Virtual Server Router when the VSR has no services up.
Q01141105	Adding or deleting an IP interface can temporarily result in a VRRP advertisement packet with Priority = 0.
Q01158185	Packets with a Multi-cast destination MAC address and a uni-cast destination IP address were forward to the MP causing MP CPU utilization to spike to 100%.
Q01178105	Defined gateways for the Web Switch fail when the link through which the gateway would be reached fails over causing a FDB station change. The web switch FDB entry is not properly updated and forwards traffic out the wrong port.
Q01303689	Tracking HSRP fails when the listener for the unprivileged port 1985 was incorrectly terminated.
Q01304073	VRRP advertisements are sometimes sent with wrong source MAC address.

Layer 4

Q01134271	Virtual server health checks fail in DSR configurations when the Virtual service IP address is not in any of the switch IP interface networks.
Q01142137	GSLB sends a RST to a client request if all local real servers fail, when it should be sending an HTTP redirect reply.
Q01216735	ICMP Destination Unreachable, Fragmentation Required packets were not properly processed in the server processing routines; the enclosed payload was not properly translated.
Q01217760	In configurations where a Virtual Server and a real server with remote enabled are configured such that they have the same index value (Ex. Virtual Server 10, and Real Server 10) the web switch may respond to GSLB DNS queries with "No such name."
Q01236450-04	Radius Accounting requests are load balanced to a real server and destination port not associated with the Virtual Server.

Layer 7

Q00506720-04	Pbind SSLID creates persistent sessions that become stuck and never age out because use count is greater then zero.
Q00896541-02	Panic: Buffer corruption occurred causing the switch to panic when attempting to construct a HTTP Redirect reply when a real server failed.
Q00951108	Using URLSLB with the OR precedence operator does not correctly load balance requests to real servers with string “any” applied to them.
Q00959047	IP Address in the RTSP SDP header is incorrectly changed when it is set to NULL (0.0.0.0)
Q01088232	Using PBIND ClientIP and stateful failover could result in corrupting of a internal table which caused new connection requests to fail and the incorrect VIPs counter to increment.
Q01095737	PBIND Cookie Insert fails to maintain client to real server persistence when filtering is enabled on the client port.
Q01106430	RTSP Traffic with URL String matching enabled would increment counters for the wrong real server.
Q01110058	PBIND Cookie Passive or Rewrite would parse and use the wrong cookie when the client request or server reply contained multiple cookies where the defined cookie name was a sub-string of a longer cookie in the data. Example: FooMYCOOKIE=abc; MYCOOKIE=xyz;

Q01203609 Using PBIND ClientIP with multiple rports creates persistent session entries that never ages out.

Q01124210-02 Using PBIND Cookie Rewrite persistency may be lost if the client refreshes the connection multiple times.

Q01214804 Using PBIND SSLID, the persistent entry created on port 9 is not updated correctly. The use count is wrong, which causes the entry to being aging out prematurely.

Q01145716-03 In Cookie Rewrite mode when receiving a request with an embedded cookie for a real server that is down, the switch creates a persistent entry rather then binding to a new real server and rewriting the cookie into the new server reply.

Q01162113 PBIND Cookie insert creates persistent entries when receiving a client request containing a cookie for a real server that has failed. The switch does not insert a cookie into the reply from the newly bound real server.

Q01182499 When updating the connection address field in the RTSP/SDP header, extra leading spaces cause trouble for some RTSP clients.

Q01200793 PBIND Cookie Passive, persistent session on SP 9 never ages out after client refreshes the page.

Q01209990 Panic: The switch would panic when a L7-Deny Filter fired and the reals associated with the filter have multiple real ports.

Q01279520-02 TCP DNS SLB fails when the TCP DNS packet includes the length field.

Q01368168 PBIND Passive cookie mode, when a real server fails and the client initiates a refresh or new request, the client was bound to a new real server but the persistent entries were improperly updated.

Known Limitations:

Q01058069-01 – When using VRRP Hot Standby, disabling and enabling Hot Standby ports will not work as expected. This is because Hot Standby controls the state of the ports when it is enabled. To properly disable or enable a port, after applying and saving the configuration changes, the switch must be reset.

Q01078650 - Certain configuration changes, when applied, can have an adverse impact on configured services and other traffic passing through the switch. Layer 3 (IP) and VRRP changes, for example, may result in temporary L3 connectivity loss or VRPP failovers.

10.0.33.4:

Q01199568 SP switch panic in fdb_delete_ifmatch (), due to an invalid FDB entry index.

10.0.33.3:

Q01089976 Pbind cookie passive fails on vrrp fail over because no PPORT persistent entry is created during session setup and forwarded to the VRRP backup switch.

Q01107556 SP code optimizations to recover scratch pad memory and h_idle() back into scratchpad.

Q01152600 DNS replies with IPv6 only requests (A6/AAAA) cause performance issues by replying with REFUSED, instead of FORMERR.

Q01155226 VRRP Backup switch can panic when processing gratuitous arp packets generated by the switch.

Q01160885-01 Passing an invalid IP address to the cli ping command can result in a buffer overflow causing a MP Watchdog panic.

Q01162113 PBIND Cookie insert creates persistent session table entries when receiving requests with cookies.

10.0.33.0:

General

Q00246396 Ports configured for Auto Negotiation may not come up after being enabled in the configuration if mode or speed are not configured to Any.

Q00932097-01 Executing /stat/dump or /maint/tsdmp while connected to the switch via a Telnet connection would hang the connection.

Q00958837 10.1 Only: Switch would panic during snmpwalk of the switch MIB.

Q00963791 Applying any configuration change would change a Virtual Server Router's (VSR) state to INIT.

Q00974946 UDP based health checks would fail when System management networks (/cfg/sys/mgmt/add) were added to the configuration.

Q00992689 Moving a port from a disabled VLAN with STP disabled into a new VLAN would result in the IP interface associated with the new VLAN being down until the switch was reset.

Q01016528 Configuring Virtual Service via the WebUI would automatically enables FTP Parsing (FTPP) and cause configuration validation errors when attempting to apply the changes.

Q01019606 A group using Radius and other UDP health checks do not close unprivileged ports when the group health check is changed.

Q01021913 System Management Networks (/cfg/sys/mgmt) do not work. Access was granted to the switch console from source outside the defined management network.

Q01028101 Configurations with VRRP Group tracking enabled could see Error: invalid command vrs messages during config apply or config sync.

Q01029768 VRRP Priority is not updated properly when tracking L4 Ports, STP is off and a VLAN is deleted until the switch is reset.

Q01047090 Disabling SNMP after being enabled in Read-Only mode would cause Error: invalid command disr.

Q01049727 SNMP Service Down Trap does not show correct the Real Port value when using multiple rports and scripted health checks.

Q01052237 WSM Only: Corrected erroneous warning message stating that there are unsaved changes.

Q01053743-01 Corrected begin and end handling of Daylight Savings Time when enabled via /cfg/sys/ntp/dlight.

Q01056025 When changing the configured health check for a group, a Virtual Server Router (VSR) would stay up, when it should have gone in to init mode.

Q01055719-01 Counter for Radius Snooping "add session reqs" was not properly incremented when processing WAP traffic.

Q01100759 The switch would panic when using the NMAP port scanner with the –sV option against the switch.

Layer 2

Q01070038 Corruption of the FDB could happen when attempting to delete an entry, resulting in a loss of connectivity for the associated MAC address.

Q01094870 FDB updates were not completed correctly on the SP when the inter-switch link in a VRRP Hot Standby configuration was disconnected and then re-connected.

Layer 3

Q00249225 The switch failed to translate the RIP address to the VIP address when a local real was configured as a backup for a remote real. Server replies were forwarded untranslated.

Q00896721 When processing a VRRP gratuitous arp, is the source mac of the arp packet is not the VRRP mac, connectivity to the VRRP gateway can fail.

Q00956109-01 A Virtual Server Router (VSR) stayed in the Master state even though the interface associated with the VR was down.

Q00969673 The priority of a VR was not properly reduced when tracking real servers and a real server was operationally disabled.

Q00971361 WSM Only: No route table entry for Virtual Servers (VIP) or Virtual Server Routers (VSR). Ping to the VIP or VSR interface would fail.

Q01012982 Switch panics when connected to a Cisco Catalyst running MST.

Q01024077 After applying a static route change, all configured Virtual Routers would get stuck in the INIT state.

Q01027585-03 VSR state is MASTER after disabling all reals and the VIP state is NO SERVICES UP.

Q01042200 A Virtual Server Router (VSR) would not process RIP updates whose IP header TTL=1

Q01043285-01 Fixed Class A network super netting, static network routes are properly matched and traffic correctly forwarded via the defined static route.

Layer 4

Q00384983 The source mac of egress frames in Dynamic (many to one) NAT was incorrectly using the switch IF MAC.

Q00932211-01 In RTSP configurations, when a group or real server back was activated, real server replies where not properly RIP->VIP translated.

Q00995314 When WTLS (Wireless Transport Layer Security) health checks are used, the initial packet of the health check sent by the switch is considered malformed because it is too short.

Q01010738 In configurations with multiple Virtual Servers defined as a VSR and using the same virtual IP address, when the one Virtual Server fails, the VSR goes state changes to INIT and the VSR is no longer reachable.

Q01021732 GSLB returns NXDOMAIN when local real is down but a remote real is up.

Q01023645 GSLB weighting is not working correctly; resulting in distributions that do not match expected weighted results.

Q01044052 GSLB/DNS queries with IPv6 only requests (A6/AAAA) cause performance issues because the switch refuses the request rather then responding with an empty NO ERROR response.

Q01052557-01 180E/AD3 Only: Fixed problem with VMA rings becoming stuck, causing a port to experience high levels of VMA discards which would negatively impact traffic on the port.

Q01066323 Additional work for CR Q00888286 to prevent the session table from becoming full and never aging out session table entries.

Q01072691-02 GSLB - Network preference table lookup did not work when hostlk was enabled with services other then HTTP.

Layer 7

Q00470368 Switch uses different source MAC addresses in the same TCP session with DAM and DBIND enabled.

Q00594578 When processing GET requests that spanned multiple packets, the ACK for the second packet was too large and could cause hung or reset client sessions.

Q00896521-02 Cookie Insert persistence fails when the bound real server fails and then recovers.

Q00951362 In Web cache redirect configurations performing URLSLB, real server session counts can steadily increase over time, eventually reaching the maxcon limit and remove the real server from service.

Q00954968 HTTP POST requests larger then 9k would fail.

Q00968811 When enabling port mirroring, and Delayed Binding at the same time, client GET requests received on the mirrored port were not forwarded to the monitor port.

Q00968815 HTTPSLB Precedence OR operator fails to load balance correctly, resulting in sessions being assigned to a single real server when the group metric is Round-Robin.

Q01029339-01 Persistent Cookie Insert mode and multi-rport configurations occasionally experienced real server binding issues that resulted in a client session being bound to the wrong server.

Q01052892 PBIND Cookie Insert fails to insert a new cookie into the server reply when the originally bound server is down or disabled.

Q01054244 PBIND Cookie Insert mode with 4 real server and multi-rport configurations would not load balance among the real server rports evenly.

Q01095227 PBIND Cookie Passive client requests would be bound to the wrong real server when a client sends requests to more then one Virtual Server with the same cookie, the VIP was not being considered when the persistent session key was found.

Q01095737 PBIND Cookie Insert fails to maintain client to real server persistence when filtering is enabled on the client port.

10.0.32.1:

Q01052557 - Fixed problem with VMA rings becoming stuck, causing a port to experience high levels of VMA discards which would negatively impact traffic on the port.

10.0.32.0:

Priority 1/Critical Impact Bugs
Q00418611-02 [CLI] Executing a configuration diff from the CLI could sometimes produce in correct results.

Q00473946 [Layer 2] UNK entries would not be correctly aged out from the FDB, which could result in a full FDB.

Q00474870 [Layer 4] FTP control connection times out during a data transfer. Reworked the change for this CR to improve the solution.

Q00627021 [BGP/Switch Panic] BGP panic when peers attempt to inject more then 1024 routes.

Q00631572 [SP-Layer 3] When processing ingress frames that are to be forwarded via IP, attempt to learn before forwarding the frames to prevent station moves from being missed.

Q00771178 [Layer 7-Passive Cookie] If a GET request spans more the one packet and the last packet is less then 10 bytes, the connection will fail because the SYN to the real server will have the destination port equal 0 instead of the configured service port.

Q00773913 [Switch/OSPF] During continuous IP traffic, if a IP configuration change was made and applied, OSPF routes would appear to not be functioning correctly. When OSPF was restarted on the config apply, the ARP entry for the continuous traffic would be updated to use either the Default GW or a static route. When the OSPF route was re-learned the ARP entries were not correctly updated.

Q00777522 [Layer 3] A Telnet/SSH connection to the switch via a Virtual IP address was possible when the packet arrived at the switch with a TTL <= 1.

Q00791028 [Switch/Health checks] Health checks will fail when the service failure table is full and additional services are added. The health check from the switch may have an incorrect destination port causing the real to send a reset (RST) response. The switch will no longer allow additional services to be added when the SFT is full.

Q00800714 [Switch/Routing] Super-netted static routes did not work. Instead the switch would used its defined default gateway.

Q00804003 [[Layer 4] When using server processing and filtering on the same port, client ip addresses that VMA hashed to the server port would not work correctly with SSL vpn. The response to the client came from the server VIP when it should have been from the SSL VPN VIP.

Q00818650 [Switch/Radius Accounting health check] When using Radius accounting health check, servers were marked down incorrectly. A variable to traffic the health check in process needed to be initialized on a per server basis.

Q00819457 [Layer 7/Dbind] When using only dbind, a refresh from a client with an existing session entry may fail and cause a 503 error to be returned to the client.

Q00823277 [Filters] L7 Deny filter has changed in the WebOS. The intent was to provide a means to filter on Layer 7 content after a session has been established. Because of architectural limitations in the WebOS, the original implementation was flawed. L7 Deny in the WebOS is now a simple allow/deny filter. For full L7 Deny functionality, upgrading to the Alteon Application Switch is required.

Q00826158 [STP/Panic] Flooding, caused by STP loops, could cause the switch to panic. Related to the fix for CR Q00631572.

Q00826172 [Layer 7] When enabling infinite maxconn (maxconn set to zero), when doing Layer 7 string matching, client requests would fail and a 503 error returned.

Q00826862 [Layer 7, Passive Cookie] When receiving a server response, if the server cookie is not in the first packet of the response, persistency is not correctly established. This caused subsequent requests from the client to be load balanced to any real server.

Q00826867 [Layer 3] When a station move occurs for an address related to a switch gateway or defined static route, traffic through the switch to that destination may fail. When processing gratuitous ARPs from the station moves, route cache entries for gateways and static routes are now flushed on the SPs.

Q00832144 [SLB/GSLB] Access to Virtual servers fails on a switch with GSLB enabled. Introduced in 10.0.30.8.

Q00834496 [Switch/Panic] When synchronizing the configuration while the switch is under heavy traffic loads could cause a MP Watchdog panic.

Q00836346 [[Layer 7/Cookie Insert] When processing server replies, the Alteon cookie was inserted into a 100 reply from the server which was ignored by the browser. The cookie was not inserted into the subsequent 200 OK reply from the server, breaking persistency.

Q00839408 [Switch/Panic] When globally disabling/enabling VRRP the switch would panic if a virtual server router (VSR) is configured.

Q00841607 [Switch/Panic] Using Secure Copy (scp) to upload a large switch config could cause a MP Watchdog panic due to a stale pointer.

Q00845432 [Layer 7] PBind SSLID persistency did not work correctly. The persistent entry was deleted prematurely causing persistency to break.

Q00847346 [Layer 3] Receiving ICMP traffic for a Virtual Router (VR) with a TTL of 1 would result in a TTL Expired response from the switch.

Q00848299 [Config/BGP] When applying any configuration change, some BGP routes could be lost or the route would time out.

Q00854939-01 [Switch/Panic] When executing /c/ip/cur with more than one GW configured. the switch may panic.

Q00893561-01 [VRRP] During failover under heavy load, when the MP downloads the VR MAC table to the SPs, the download may not complete or a VR MAC may be corrupted. This can result in intermittent connectivity for clients that are hashing to the SP where the MAC entry is corrupted.

Q00899923-01 [Layer 7] With PBIND Cookie and URLSLB configured, packets may be forwarded to a real server with a DMAC 00:00:00:00:00:00.

Q00901370 [SP/Panic] When a port experienced a TX FIFO condition, it attempts to recover from the FIFO condition. A function was called on the TX processor that only runs on the RX processor. This caused a Page 0 data panic in Spq_dma_rd.

Q00903837 [Layer 7] When DST was enabled in the GSLB config, Cookie Insert expiration time would be off by 1 hour.

Q00950057 [Layer 7] When using PBIND COOKIE and FILTERS, if a client sends a request with a cookie pointing to a real server that has failed, it is possible that a server may be left in a FINWAIT1 condition. This happens because the client ACK of the server FIN-ACK is RST by the switch.

Q00957846 [GSLB] GSLB with ALWAYS enabled, is not returning an IP address when the remote site is not reachable. Introduced in 10.0.30.7.

Q00959047 [RTSP] When processing a RTSP server reply, the connection information field in the SDP header was incorrectly being updated when the content was null (0.0.0.0).

Q00970542 [Layer 7] When searching the HTTP header, use a non-case sensitive search.

Q00976287 [Layer 4] When having multiple Virtual Servers configured using the same VIP, if all services on the first virtual server fails, all of the virtual servers will be marked down.

Priority 2/High Impact Bugs

Q00224945 [Config] The broadcast address for a IP interface could incorrectly be set to 0.0.0.0, even when the address and mask were set.

Q00388900 [Statistics] When an Alteon switch received a RIP2 multicast packet, a inIpAddress error would be generated. Note that the Alteon AceDirector series does not support RIP2.

Q00447814 [VRRP] The VRRP thread could get stuck attempting to send an advertisement if no medium sized packet buffers were available. This would put the switch in a state where all the medium buffers were allocated by received VRRP packets and the thread unable to process them because it was stuck. The medium buffers would never be freed.

Q00506448 [Layer 7] When using PBIND COOKIE INSERT, a web cache redirect filter applied to a port and filtering disabled on that port, a server reply may be incorrectly filtered and redirected. After the cookie insert processing, filtering was applied with out first checking if filtering was enabled on the ingress port.

Q00511099 [Layer 7] When receiving a client request with a persistent cookie, previously assigned by the switch, GSLB 302 redirects will fail if the local site has failed.

Q00562022 [OSPF] A Virtual IP address may be advertised via OSPF after a switch reboot if all the services for the Virtual Server are down.

Q00594608 [Layer 7/WCR] ICMP Destination Unreachable/Fragmentation needed replies were not correctly forwarded to the real server.

Q00628436 [Layer 7] Using Real Server port mapping with URLSLB did not work correctly. The request would be sent to the correct real server, using the wrong destination port.

Q00642086 [Switch/Config] Synchronizing a large switch could fail because the timeout period for the sync process expires before the sync is complete.

Q00684383 [Layer 7] When DBind is enabled, receiving a TCP frame with invalid TCP flags could result in a the creation of a session table entry.

Q00729833 [VRRP] When changing the address of an IP interface to that of a configured VRRP interface such that the switch is now the "owner", the VRRP priority was not correctly updated.

Q00750672 [180E/AD3/BWM] When the switch is configured to send BWM statistics, the data in the email is corrupted if a TSDMP has been executed on the switch console.

Q00760583 [Layer 7/FTPP] When FTPP is enabled, always update the FTP control sessions age when data is received on the FTP data session to prevent the control session from timing out.

Q00762894 [VRRP] A configured Virtual Proxy Router (VPR), would revert back to a Virtual Interface Router (VIR) when the switch was reset.

Q00768351 [Layer 4] Session entries were not fast aged when receiving a FIN from a real server when a default allow filter applied to the client port.

Q00768646 [WSM/184/AD4/CLI] Switch would issue "Could not allocate memory for diff" error. A new diff implementation was introduced that now will use unused memory of Port 9 to complete the diff when there is not enough memory available on the MP. A prompt may be displayed informing the user that the diff of a large config may take some time and have an impact on switch performance. The user will be given the option to proceed or exit the diff.

Q00781528 [VRRP] VRRP tracking by real server stops functioning after disabling a virtual server in the config, (example: /cfg/slb/virt 1/dis). The configuration change was not applied.

Q00786998 [Switch/Health Checks] The restr parameter was not function correctly for ICMP health checks. A failed real server would be marked up again, sometimes with as little as a single successful health check, regardless of the restr value, because a counter was not reinitialized for each failed health check.

Q00793164 [Layer 3] When multiple routes to a destination exists in the route table, the first matched route would be used regardless of the metric. This could result in routes with higher costs (metric) being used.

Q00793678 [GSLB/DNS] When responding to DNS queries, the local VIP would always be used, even when response times and load would favor the remote VIP.

Q00794785 [Switch/Health check] When send WAP health checks, the user defined content for the health check was incorrect causing the health check failures.

Q00826151 [Layer 7] When using pbind clientip, some client connections may fail. The switch does not send a SYN/ACK in response to the clients SYN. Introduced in10.0.28.6.

Q00836614 [[Layer 4] WAP UDP service operates incorrectly. Clients can still access the WAP service event if user disables udp in the virtual service.

Q00838897 [Layer 3] When forwarding a packet via a static route, the first forwarded frame or frame sourced from the MP, the forwarded frame may have an incorrect VLAN-ID.

Q00843162 [CLI/Layer4] Operationally disabling a real server does not work. Introduced in 10.0.30.9 by the unlimited connections enhancement.

Q00855647 [Layer 7/PBIND] Persistent binding of SSLID didn't work with SSLv2. SSLv2 does not include the session id in its initial unencrypted response. The session id is now fetched from the Client HELLO.

Q00858909 [Layer 7] When using delayed binding with a Virtual Server Router (VSR), the first reply from the switch when no session table entry exists may have an invalid source MAC address.

Q00860948 [Layer 4/Panic] When aging session table entries from the application binding table (ABT), a corner case existed where the aging routine could get stuck in a tight loop causing the switch to panic.

Q00864297 [Layer 7] When using pbind client ip and multi-rport, if the real server port bound to a session fails, new client requests are not re-bound to a new server/rport until the existing session entry is aged out.

Q00865070 [Layer 4/Health checks] When using a group for Web Cache Redirect, the defined group health check

was ignored and the real servers were health checked using ICMP.

Q00866851 [Layer 3] During switch startup, a route for a VIP was added before the interface associated with the VIP was up, causing failures on route lookup when attempting to ping the VIP.

Q00867898/Q00954937 [Layer 7] RTSP URL requests that contain options for the RTSP server would cause delays in the completion of the session between the client and the server.

Q00868857 [GSLB/DNS] The wrong VIP would be returned from the GSLB static preference table when the client ip did not match the networks associated with the table entry.

Q00870555 [Layer 7] Regular Expression parsing did not support the '+' meta-character after a '[...]' construct.

Q00870963 [CLI] Using a large WAP health check content string could result in it being lost after a switch reboot. The switch would generate an bad syntax error because the command length was greater then the max CLI buffer length.

Q00873969 [Layer 3] Only reply to ICMP requests to a VIP if the ingress port has client processing enabled.

Q00875932 [BGP] When making configuration changes to fixed, static or vip options, peer updates were not sent when the changes were applied.

Q00876873-01 [Layer 7] Using PBIND COOKIE, if a HTTP header immediately follows the Cookie header the switch may parse the cookie incorrectly.

Q00886391 [Layer 7] When using local nets and URLSLB, client may not be able to access the virtual services if the client is on a remote network.

Q00898605 [Switch/Health check] LDAP health check fails with new versions of some LDAP servers (IBM 5.2 and ADAM for Windows 2003).

Q00901153 [CLI/Radius] When using Radius for authentication, passwords greater then 15 characters in length would fail when used at the CLI.

Q00912821 [Layer 4] When changing a real server ip address (RIP) a server may end up in a condition where its state is marked inactive, but the service failure table entry is marked up. This results in a situation where client requests can be bound to the real server, but the connection will fail.

Q00912949 [Layer 7] When PBIND and FTPP were both enabled, ftp data sessions were being marked persistent, which would cause then to become stuck and would never age out.

Q00915242 [WSM/Filtering] VLAN binding based on 802.1q tagging on the WSM did not work properly.

Q00917015 [Switch/Config] Add VRRP configuration validation to prevent Hot Standby and Share from being enabled at the same time.

Q00920308 [CLI/Telnet/Panic] A CLI session via telnet can cause the switch to panic when the idle time out expires.

Q00938395-01 [GLSB] When enabling Host Lookup, network preference table lookup may return the wrong Virtual IP address.

Q00941970 [Layer 4] With VMA enabled, client requests received on a port without client processing enabled may still be client processed when filtering is enabled on the port.

Q00955249 [Layer 3] ARP entries for the switch interfaces are sometimes lost after executing a revert apply if VRRP is enabled.

Q00959854 [Layer 7] If a real server does not respond to the SYN sent from the switch, when the client re-transmits the data frame and it is larger then the original frame the switch does not retransmit the SYN.

Q00964550 [VRRP] Removed Track VR from the VRRP Group menu. When using VRRP Group, individual VRs are not tracked.

Q00968814 [Layer 7] When using the HTTP precedence OR operator, when matching a specific string the any string statistic is in correctly incremented, making appear as if the match was really on the 'any' string.

Q00968821 [WCR/Layer 7] When using a non-cacheable filter and Layer 7 processing, matched strings were sent to the cache server in stead of the origin server.

Q00969070 [Layer 4/Switch Panic] When using filters, the aging routine could stuck in a tight loop causing the switch to panic.

Q00969736 [Layer 3] SYN/ACK replies from the switch to a client may have the switch IF MAC as the source MAC, when it should be the Virtual Server MAC (VMAC).

Q00978295 [GSLB/No Remote] Cover additional cases in the code where the switch may return a 503 error. When no remote is enabled, the switch should allow client connections to timeout when no local real servers are available.

Q00992175 [SNMP] Increased the stack size of the SMNP task to prevent a stack overflow which could result in an unresponsive switch, a switch panic or message on the CLI like: Error message: Unable to alloc memory for menu environment; sorry.

Priority 3/Medium Impact Bugs

Q00462307 [Switch/Config] Added a check to prevent illegal backup group configurations. It was possible to have a real server in more then one group and have the second group used as a back up for a third real server group using the same service port.

Q00490880-01/Q00502200-01 [Layer 7] Layer 7 precedence, urlslb or host would parse to the wrong server and strings.

Q00524480 [WSM/Layer 3] When using local nets, the switch did not configure a local net for the internal management IP.

Q00569703 [Layer 7] When using PBIND COOKIE, cookie statistics may be incremented twice for each single cookie hit.

Q00570594 [Layer 7] Using regular expression matching, it was not possible to match on the beginning of a string. Support for the "^" meta-character in regular expressions has been added. This meta-character is used to specify exact match at the beginning of a string.

Q00603901 [Layer 1] When a port was configured for 100mb, full duplex with flow control, the port statistics txFlowCntrled and rxFlowCntrled would never increment and sending or receiving flow control pause frames.

Q00658371 [WebUI] When authentication fails on the WebUI, the switch does not send a SYSLOG or trap.

Q00663581-03 [Layer 7] When using cookie insert, the fully qualified domain name was not inserted when a host name for the VIP is defined. Only the domain name was inserted in the cookie.

Q00681698 [Switch/Health check] When the group health check is configured for WAP, if content is undefined or the virtual service port was not the well know WAP service port, the default health check would be TCP, it is now ICMP.

Q00682808 [WebUI] When a primary real server fails and a backup is activated, the WebUI would show the virtual server as down (RED), instead of alarm (YELLOW).

Q00718821 [Switch/Config] When a configuration change was made (/cfg/slb/off) then applied, and then changed back to it starting state (/cfg/slb/on) then applied, the switch would remain in a state where a save was required even though this wasn't the case. Note: If the switch was booted with a Factory config, and the switch configuration has not yet been saved, the switch will still note that a save is required.

Q00725023 [GSLB] When using multi-rport and GSLB is configured, the response time for the remote real in /info/slb/dump is always reported as 0.

Q00730349 [SNMP] The dot1dBasePortIfIndex OID did not correctly map to the ifIndex.

Q00753538 [Switch/SSH] When a SSH session is terminated, memory allocated for the session was not correctly freed.

Q00774029 [VRRP] A virtual server router (VSR) was shown as master when all services failed.

Q00784206 [GSLB] When processing a DNS query, the response contained invalid duplicate results for remote real servers. Note: It is still possible that some duplicate results will be returned, however this is working as designed to allow weighted dns round robin to work properly.

Q00795653 [Switch/Config] Disabling and re-enabling a VLAN does not work properly. All the interface associated with the VLAN would stay in a down state.

Q00796038 [Switch] When filtering TCP session with filter log enabled, only the least significant nibble of the TCP flags were reported in the log. This means ACK, URG, ECN and CWR could be missing from the log.

Q00808533 [Layer 3] Pinging a VIP when VLAN based gateways are configure fails when the client is not local to the switch.

Q00813168 [Switch/Panic] The switch would panic during a diff or diff flash when accessing a configuration entry that was greater then 128 bytes.

Q00819410 [WSM/CLI] Correct the port display for Trunk Learned entries in the FDB. Applies to WSM only.

Q00821493 [Switch/Config] Fixed config validation when FTPP is enabled and Proxy and Dam were disabled. This is an invalid configuration; an error will now be reported.

Q00821876 [Switch/Config] When operationally disabling all real servers in a group, any configured backup group or real servers will be activated.

Q00822374 [GSLB] When receiving DSSP updates, the switch was unable to properly process the update resulting in error messages on the console: :gslb: received update for unknown remote service 0.0.0.0:(null)...".

Q00822384 [GSLB] Enabling a remote site without an primary ip address and applying the change would result in approximately 500 error messages from the configuration validation.

Q00864215 [Switch/SLB] When using multi-rports with real servers, the health check response time for the real port in /info/slb/dump was displayed as zero.

Q00865778 [Layer 2] A trunked port can get stuck in the STP Blocking state if it receives its own BPDU.

Q00865984 [Switch/SLB] When a real server is disabled in the configuration, it was still included in virtual server statistics, /st/sl/virt 1. Disabled servers are no longer included in the statistics output.

Q00871897 [Switch/Config] When configuring a backup server, added "None" to the range of allow entries displayed when executing /c/slb/real X/back.

Q00874136 [Layer 4] ICMP Destination Unreachable/Fragmentation needed replies were not correctly forwarded to the real server.

Q00874810 [Switch/Config] Add configuration validation check to prevent RTS being enabled with out filtering enabled on at least A port. If RTS is enabled, and no port has filtering enabled, all traffic to the port with RTS enabled will be dropped.

Q00887994 [Switch] Prevent switch from successfully verifying 0 length flash images during image upload.

Q00888286 [Layer 4] Port session counts could sometimes be decremented and result in a session count of 4 Billion.

Q00891052 [WebUI] An erroneous linefeed at the end of a VRRP SYSLOG message could cause a display error in the WebUI.

Q00894854 [Layer 3] When deleting a VLAN, the interface associated with the VLAN would still be marked in an UP state. Added a configuration validation check to prevent an interface being configured to use a disabled/non-existent VLAN.

Q00901699 [Filtering/Layer 7] Setting rport equal to 0, and not adding a port via addport can cause a switch when enabling URL Parsing on a filter.

Q00904629 [GSLB] Updated IANA region information.

Q00907878 [CLI/Radius] The radius secret is not shown in the /c/sys/radius/cur out put.

Q00912163/Q00912168 [Layer 7] Layer 7 precedence, urlslb or host would parse to the wrong server and strings.

Q00917837 [Switch/Health Check] When using the WAN Link Load Balancing feature, real servers in a group using ICMP health checks would be marked FAILED on any configuration change.

Q00919652 [Switch/Scripted Health Check] Unable to use a double quote (") when using scripted health checks. It would be accepted at the CLI, but upon a reboot or config apply, a syntax error would be generated.

Q00919666 [Layer 7] When using URL Host with the minmisses metric, the results may parse to the wrong real server or url strings.

Q00934107 [Switch/Health Check] Configurations using Multi-rport do not work correctly with scriptable health checks.

Q00957618 [GSLB] Update IANA region information for newly assigned ARIN subnets

Q00962987 [WebUI/Layer 7] Adding a URL string to a real server did not work correctly using the WebUI. After applying the change, verifying it via the console would show that the string was not added to the real server.

Q00979146 [Layer 4] When a real server is operationally disabled and failed, when the real server comes up, its group is incorrectly put into SLOWSTART mode.

Low Impact Bugs

Q00480679 [CLI] When displaying the Max Tries for ping, only display up to the maximum requests supported (32) regardless of what is entered on the command line.

Q00511702 [IP Statistics] The ipOutNoRoutes counter was not incremented when there was no route for a destination.

Q00612439 [SNMP/OSPF] Exclude unsupported OID: ospfTOSSupport. Modify OID ospfASBdrRtrStatus to reject set requests.

Q00786657 [CLI] When dumping the session table by client ip, Wan Link load balanced sessions are not correctly displayed.

Q00801606 [Layer 3] When using a Default GW and a VLAN GW configured with the same IP address, the MP could not be reached unless a static route was defined.

Q00843116 [SNMP] The switch would reply to SNMP requests received on a VIR interface that it does not own.

Q00864308-01 [Switch/CLI] The switch would drop DNS replies from DNS servers that have recursion enabled.

Q00873899 [WSM/CLI] The out put from /cfg/snmp/cur did not display the second trap host.

Q00875884 [Switch/CLI] Removed an erroneous pause when executing /cfg/vrrp/cur.

Q00968892 [CLI] Removed httpslb and dnsslb options from the FTP Service configuration menu.

For other known issues, please refer to the product release notes and technical documentation available from the Nortel Technical Support web site at: http://www.nortel.com/support .

To access more technical documentation, search our knowledge base, or open a service request online, please visit Nortel Technical Support on the web at: http://www.nortel.com/support