BayRS, BCC, and Site Manager Software Version 15.0.0.0 Fixed Anomalies

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Preface

This document contains information about:

- Router fixed anomalies in BayRS* Version 15.0.0.0

- BCC* fixed anomalies in Version 15.0.0.0

- Site Manager fixed anomalies in Version 15.0.0.0

In this guide, the Passport* 5430 Multiservice Access Switch is referred to as the *Passport 5430* and the Passport 2430 Multiservice Access Switch is referred to as the *Passport 2430*.

Text Conventions

This guide uses the following text conventions:

bold text   Indicates command names and options and text that you need to enter.

Example: Enter **show ip** {**alerts** | **routes**}.

Example: Use the **dinfo** command.

Acronyms

This guide uses the following acronyms:

ABR   area border router

AN*   Access Node

AOT   polled asynchronous over TCP/IP

ARE	ATM Routing Engine
ARN*	Advanced Remote Node
ARP	Address Resolution Protocol
AS	autonomous system
ASBR	autonomous system boundary router
ASN	Access Stack Node
ATM	asynchronous transfer mode
BCC	Bay Command Console
BGP	Border Gateway Protocol
BLN	Backbone Link Node
BN*	Backbone Node
BOD	bandwidth on demand
BRI	basic rate interface
CPU	central processing unit
DLCI	data link connection identifier
DLS	data link server
DLSw	data link switching
DoD	dial on demand
DSU	data service unit
EBGP	External Border Gateway Protocol
FDL	file definition language
FEP	front end processor
FTP	file transfer protocol
GID	group identification
ICMP	Internet Control Message Protocol
ID	identifier or identification
IGMP	Internet Group Management Protocol
IP	Internet Protocol
IPEX	Internet Protocol Encapsulation of X.25

IPX	internet packet exchange
ISDN	integrated services digital network
ITU	International Telecom Union
LANE	LAN emulation
LCP	Link Control Protocol
LEC	local exchange carrier
LS	link state
LSDB	link state database
MCT1	Multichannel T1
MIB	management information base
MPOA	Multi-Protocol Over ATM
MOSPF	Multicast Open Shortest Path First
NHRP	Next Hop Resolution Protocol
NTP	Network Time Protocol
NMS	network management system
NAT	Network Address Translation
NetBIOS	Network Basic Input/Output System
NIC	network interface card
NTP	Network Time Protocol
NVFS	non-volatile file system
OAM	operation, administration, and management
OSPF	Open Shortest Path First
PCAP	packet capture
PDN	public data network
PIM	protocol-independent multicast
PPP	Point-to-Point Protocol
PVC	permanent virtual circuit
RIP	Routing Information Protocol
SABME	set asynchronous balanced mode extended

SAP	service access point
SNMP	Simple Network Management Protocol
TCP	Transmission Control Protocol
VBM	virtual buffer memory
VC	virtual circuit
VCI	virtual circuit identifier
VCCT	virtual channel connection termination
VNR	virtual network router
VPI	virtual path identifier
VRRP	Virtual Router Redundancy Protocol
WCP	WAN Compression Protocol
XID	exchange identifier

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Asia Pacific	(61) (2) 9927-8800
China	(800) 810-5000

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BayRS, BCC, and Site Manager Software Version 15.0.0.0 Fixed Anomalies

This document lists the anomalies (also referred to as bugs, change requests, or CRs) that have been fixed in Nortel Networks[*] BayRS, BCC, and Site Manager Software Version 15.0.0.0.

Maintenance Release Methodology

BayRS, BCC, Site Manager Software Version 15.0.0.0 are Major Releases.

Major Releases provide a roll-up of all new features, fixes, and software architecture changes introduced in all Maintenance, Feature, and Revision Releases made since the previous Major Release. Major Releases are designated by a change in the number to the left of the decimal point.

BayRS and BCC Version 15.0.0.0 Fixed Anomalies

Nortel Networks has fixed the following anomalies in BayRS and BCC Version 15.0.0.0.

==

CR 96445-2: RIP

Need the ability to specify the cost of the default route when RIP Generate Default Route is used.

CR 97043-1: Technician Interface

If you make several dynamic changes on an AN or ASN router with a large configuration (that is, hundreds of dial on demand [DoD] or frame relay interfaces), the router will give an error when trying to save the configuration.

CR 102621-1: ASN2

Request to log a warning message if the router detects that a remote power supply has become operational and the sfRASNRPSUPresent management information base (MIB) is set to "not present."

CR 107003-2: OSPF

With multicast traffic, area border routers incorrectly age out type 3 summaries when the designated router is bounced or disabled.

CR 107270-3: Frame Relay

When WCP is enabled on a frame relay circuit, the ifEntry in and out octet counts are not reported correctly for compressed and pre-compressed data.

CR 109269-1: SWSERV

An ARN configured with a V.34 modem always answers an incoming call on the first ring, regardless of the setting of S register 0 (S0 is the setting for the number of rings to receive prior to answering the call) for Hayes mode.

CR 109386-1: ATMLANE

When an LEC drops, virtual circuits are left in the table associated with the down circuit. Since the LEC is down, no VPI/VCI circuits should be associated with it. The LEC will not come up until the circuits (VPI/VPI) are manually deleted.

CR 109531-2: IP

The IP global parameter ArpBufLimit prevents ARP storms from hogging all buffers on a slot. The default value for this MIB is set to 75%; this prevents an out-of-buffer condition when an NMS pings non-existent devices on a net.

CR 110490-1: ATM

The router does not support sfAtmizerVcITxClipFrames, so the value should always be zero.

CR 112493-1: BCC

BCC will not allow you to create multiple filters that have the same network/mask fields but different type fields.

CR 115874-2: DLSw

DLSw may fail to send test polls to the FEP after a line card is replaced by the Telco.

CR 119140-2: Logical Line Test

Disabling loopback on an MCT1 on an ASN will not cause the interface to come out of loopback.

CR 119438-1: SNMP

BayRS does not allow you to specify the source IP address in a trap message. Currently the IP address of the interface that is experiencing the problem is used as the source address. Enabling the MIB attribute wfSnmpMgrEntry.wfSnmpMgrCircuitlessTrap causes the router to use the configured circuitless IP address as the source address.

CR 119877-1: NTP

NTP does not work in broadcast mode. Some symptoms of this are that NTP drops random updates and that changing modes dynamically either does not work or causes a bus error on the router.

CR 120372-3: OSPF

When you are adding IP static routes to a host address with a mask of all ones, the routes are entered in the router's IP routing table but OSPF never imports them, preventing any other OSPF router from learning the routes.

CR 121461-1: AHB

When AHB creates the initial configuration file, it misreads the subnet mask.

CR 125149-1: Passport 2430

You cannot set the manager password on the Passport 2430. This fix applies to Revision 4 of the Passport 2430 CPU board.

CR 125462-1: DLSw

In an unequal SAP connection, if a SABME is received before the XID, the connection is never established.

CR 125873-2: Frame Relay

The router faults under a heavy traffic load over a frame relay access line.

CR 126410-1: Frame Relay

FTPs fail when the path between the router and the server is configured with multilane frame relay using the random algorithm.

CR 127018-1: ATM

A tag violation fault occurs on a router configured with more than 100 PVCs when ATM priority queuing is enabled.

CR 127613-1: DLSw

Configuring a DLSw protocol priority queue traffic filter causes the router to fault.

CR 128275-1: X.25

X.25 slots fault over time with "out of mapping" errors when establishing more than 61,000 X.25 PDN connections.

CR 129054-1: AOT

When you use BayRS AOT with a polled AOT device, you may get a larger than expected response delay, which can cause the device to time out.

CR 129066-1: ATM

Regardless of the number of ATM service records, there is only one instance of ifEntry for the ATM interface.

CR 129601-2: Octal Sync

If an octal sync port receives bursts of errored frames from the network, the port will eventually hang.

CR 129794-2: OSPF

For an external route with an ASE forward address, if the link to the ABR and the link to the ASBR are disabled, OSPF will either continue to point out the link that was just brought down, or will fail-over to an alternative link. It does not recover when the least-cost path is brought back up.

CR 130221-3: FT1

When FDL loopback codes (such as lineloopci, lineloopia, lineloopib, and payloadloop) are sent to the FT1 interface on an ARN router, the interface remains up. This fix does not apply to the Passport 2430 FT1 interface.

CR 130235-3: FT1

When echo-request is set to a value other than the default on an FT1 interface on the ARN router and the echo request times out while in the loopback state, the interface restarts and is no longer in the loopback state. This fix does not apply to the Passport 2430 FT1 interface.

CR 131667-2: RIP

If all the routes in a triggered update become unreachable, when an announce policy applies to those routes, the advertise list in the policy is sent as unreachable. This can occur when RIP is configured with both the Default Route Supply option and the Triggered Updates option enabled.

CR 131804-1: VRRP

On a router configured with VRRP, when the IP source address is physical instead of virtual, BayRS sends an ICMP redirect and drops the packet.

CR 132196-1: Frame Relay – wfFrDlcmiEnableSinglePVCUpdate

Control is needed to process a single asynchronous PVC status message that some non Nortel routers send via a new MIB variable.

CR 133510-2: Frame Relay

When the remote PVC goes down, the log does not provide an information event message to say that the DLCI is inactive. The log does provide an information event message when the DLCI becomes active.

CR 133691-1: TCP

A fault occurs if TCP fails to respond to a request.

CR 133758-2: BGP

When an IBGP peer is configured between two BayRS BGP speakers in a sub-AS, the peer goes into an established state and fails immediately. It then cycles in and out of the established state indefinitely.

CR 134231-2: WCP

If you have some ports configured with WCP and frame relay and other ports on the same slot configured without WCP, the ports without WCP configured do not come up.

CR 135059-2: PING MIB

Using the MIB wfPingEntry with trace route causes the router to run out of memory and fault when a routing loop exists in the network.

CR 135060-1: PING MIB

If you set the MIB attribute wfPingEntry.wfPingAction to 2 (waiting) to discontinue a PING, the router does not stop pinging.

CR 135625-1: MIB II

On a router interface running frame relay with a PPP/ISDN backup, if you switch the interface from primary to secondary and then back to primary, the MIB II attribute ifEntry.ifOutDiscards no longer counts clipped packets.

CR 136195-1: ATM NIC card

Servers with Interphase 55X5ATM NIC cards installed using 802.5 ELANs cannot set up a data direct VC to a router.

CR 136764-1: NAT

Configuring static NAT on a router with over 600 dynamic address translation entries in its mapping table causes the NAT router to fault.

CR 137428-2: NVFS

Attempting to compact and format a 40 MB ScanDisk* brand flash card on a busy ARE processor causes the flash card to become corrupt.

CR 137549-2: PING MIB

On a router configured to use the PING MIB to ping at intervals with one or more source route entries, a bus error occurs the first time that a ping source route entry is deleted.

CR 137597-1: FRE4

Powering off the console modem when the FRE4 slot is running T1 causes the FRE4 module to hang or reset and run diagnostics.

CR 137752-1: MOSPF

Multicast traffic over MOSPF cannot traverse more than one hop.

CR 137961-1: DE100

When the router is cold rebooted with a configuration that has the speed configured as Half Duplex (autonegotiate disabled), the router sends out fast link pulses before the software has initialized, creating a speed/duplex mismatch with Nortel Networks switches.

CR 138134-1: Technician Interface

When the wfResourceTotalCpuUsed, wfResourceTotalCpuIdle, and wfResourceTotalCpuMax counters become large, they are displayed in the Technician Interface as negative numbers.

CR 138234-2: DLSw

In a hub and spoke configuration with V2 DLSw, the router's hub DLSw slot eventually runs out of GIDs and resets.

CR 138659-1: Technician Interface

Running the **show sws pap** script does not produce the proper output.

CR 138872-1: NetBIOS over IP

In a multinetted environment where two routers are connected to the same LAN and enabled to route NetBIOS over IP on each of their configured addresses, a routed packet's time to live (TTL) value can never reduce to zero. As a result, a directed broadcast coming from one subnet that is then routed into the other is never discarded.

CR 139111-1: APPN

The log file shows assertion errors in the APPN subsystems when the router is under load.

CR 139115-2: PIM

Certain products of vendors outside of Nortel are not completely RFC compliant regarding PIM. Work-arounds were incorporated into BayRs to allow connectivity to these products.

CR 139158-1: Quad 100 BT/Gigabit

In a DLSw configuration, the router corrupts outbound SNA frames on a quad 100BT or gigabit module if the IP upstream link to the DLSw peer is made over ATM/PVC with LLC/SNAP encapsulation.

CR 139337-2: WCP

When you use hi_fn compression on a DoD circuit between the Nautica Clam router and an AN router, file transfer is interrupted with an Incorrect Sequence Number error.

CR 139434-1: Quad 10/100 BT module

On a BN with a FRE4 and a Quad 10/100Base-T module, a port set to 10BT or 10BT-full duplex always remains up, regardless of the state of the physical link.

CR 139841-2: Passport 2430

When you use install.bat to configure an FE1 interface on a Passport 2430, you cannot later manage the router from Site Manager.

CR 140075-1: DLSw

If sessions are frequently connecting and disconnecting, a buffer leak can occur when using a single switch DLS on a router Ethernet interface.

CR 140103-1: ISDN

When you boot a Passport 2430 with a BRI 64K leased-line configuration, the Passport 2430 hangs up at the login prompt and boots itself.

CR 140745-2: IP

On a virtual network router configured with ATM, RIP, and OSPF, when an interface link is broken, the IP routing table is not updated with the new best route.

CR 140757-2: BGP

When BGP routes are withdrawn or BGP peers go down, BGP does not release allocated memory. This may eventually result in an out-of-memory fault on the router.

CR 140977-1: MPOA

VNR 5782 routers configured with MPOA take watchdog timeouts every few hours.

CR 141430-2: X25 Backup

When you configure IP and IPX over a service record, then disable IPX, the pilot SVC, as expected, initiates connects until the IPX interface enables. However, the **show x25 vc** script gives incorrect Tx/Rx statistics.

CR 141758-1: Passport 5430 – ATM T1/E1

The SYNC LED remains lit on the Passport 5430 ATM T1/E1 port regardless of whether the physical link is up or down.

CR 141764-1: IPEX Gateway

When you use IPEX in gateway mode, if a TCP connection cannot be initially established but then seconds later succeeds, a bus error occurs.

CR 142180-1: BCC

You are unable to configure an IP traffic filter when using BCC on an ATM interface with either LANE or PVC.

CR 142205-2: IP

Static routes may get built incorrectly if the next-hop interface is not up. The entry is not added to the routing table even when the next-hop interface is up again.

CR 142223-2: FT1

When the FT1 interface on the Passport 2430 receives loopback messages, the FT1 driver does not bring the interface down.

CR 142229-2: SWSERV

Passport 2430 configured with an internal V.34 modem always answers a call on the first ring, regardless of the setting of S register 0 (S0) for Hayes mode. S0 is the setting for the number of rings to receive prior to answering the call.

CR 142230-2: SWSERV

Passport 5430 configured with an internal V.34 modem always answers a call on the first ring, regardless of the setting of S register 0 (S0) for Hayes mode. S0 is the setting for the number of rings to receive prior to answering the call.

CR 142226-1: Passport 5430/FT1

When PPP echo request is enabled on the FT1 interface on a Passport 5430, the FT1 interface will not stay in the loopback state after receiving loopback codes.

CR 142295-2: AHB

BayRS does not accept more than 100 AHB circuits.

CR 142321-2: OPSF

When the interface to the backbone area goes down, the OSPF area border router fails to send the maximum age link state advertisement of the default route into the stub area, causing connectivity to be lost to external routes.

CR 142346-2: Frame Relay

After approximately 195 days, frame relay PVCs no longer recover.

CR 142485-2: STAC compression

If you enable STAC compression on at least one of several hundred dial-on-demand circuits on a router, the router will fault when STAC compression comes up.

CR 142582-2: DLSw

The BLN router cannot support more than 500 PUs on a single Ethernet slot.

CR 142702-1: ATM OAM

BayRS does not fully comply with ITU-T 1.610 specification on OAM loopback.

CR 142705-1: DiffServ

Using DiffServ and PP 2430, traffic over the Token Bucket Rate is seen "in profile" and thus never policied.

CR 142821-2: AHB

The router faults consistently in AHB, deleting hosts from the table.

CR 142823-2: AHB

If AHB extended debugging is enabled, the router faults.

CR 143078-2: PPP

On a router configured with PPP multilink running hardware compression, an orphaned buffer occurs when a sync line is disabled.

CR 143143-2: NAT

If you have a large number of NAT entries (2000 or more) in the NAT static mapping table and enter the NAT context in BCC config mode, the router will fault.

CR 143209-1: ATM

When an ATM interface resets, the number of reported VCCTs defaults to 0 and never increments.

CR 143573-1: IPX

On a multislot router, IPX service access points age instantly when the SAP via Default Route parameter is enabled.

CR 143576-2: ATMARP

Routers randomly lose ATMARP connectivity to ATM-attached Classical IP hosts.

CR 143691-1: ATM

When a router's ATM LECs lose connectivity to the LES/BUS, they sometimes fail to recover from this condition. The associated service record remains down until the slot or router is restarted.

CR 144002-2: X.25

X.25 over D-channel (X.31) does not come up.

CR 144133-2: NTP

A router configured as an NTP client ignores responses from an NTP peer server that is set to the default, Not Preferred. This is a problem when all NTP peer servers are set to Not Preferred, causing the router to ignore responses from all of the NTP servers.

CR 144379-2: FTP

FTP debug code 59 messages are causing the router's log to wrap. This message is logged when files are transferred to or from the router.

CR 144918-1: Agent Segmentation

Issuing an **snmpserver** command from the Technician Interface with an improper OID string causes a watchdog timeout error.

CR 144922-2: DVMRP

After DVMRP is restarted on one or more interfaces, the MTM cache may contain an outbound interface for a source, group pair that is missing from the DVMRP cache, causing that stream's data to not be forwarded.

CR 145170-2: BGP

When a router receives an update through an EBGP connection that contains its local AS more than once in the path attributes, it will tear that connection down.

CR 145192-3: Quad 10/100Base-T

When traffic utilization is very high on the line, a quad 10/100 port running at half duplex may stop transmitting traffic, but it will continue to receive traffic.

CR 145210-1: MPOA

A TAG violation may occur when you run MPOA and NHRP on a VNR 5782 or ATM router.

CR 145275-1: Modem Console Port

When you are trying to change the baud rate of the Modem Console port through the Console, it also changes the baud rate of the Console port. The Console starts exhibiting garbage characters but does not actually change the MIB entry.

CR 145519-1: DLSw

NetBIOS Name Query frames received over the DLS protocol are not forwarded consistently.

CR 145751-3: NAT

When NAT is enabled, the router does not process RIP 1 updates with a source address of 255.255.255.255.

CR 145870-1: MOSPF

The **show mospf base** command does not display the display Inter-Area Multicast Forwarder value when wfOspfMulticastExtensions is set to 5 for intra-area and inter-AS multicasting.

CR 146150-1: ARP

When receiving an ARP reply packet, ARE and VNR 5782 routers may experience VBM errors.

CR 146175-2: OSPF

Incompatibility issue between a BayRS router and a Juniper Networks* router running over an ATM Point to Point PVC causes OSPF adjacencies to fail to go to the full state. The problem is twofold: the Juniper Networks router is sending an OSPF Hello packet with an invalid netmask, but the router should be ignoring the netmask.

CR 146507-2: ARN/FT1

The MIB parameter wfDs1E1PortLoopbackState is not being reset back to 1 (no loop) when loopback mode is terminated on the FT1 interface on an ARN.

CR 146697-2: Dial-on-Demand

The one-way authentication feature on a dial-on-demand ISDN circuit is not working correctly.

CR 146963-1: ATMARP

When a server sends a Connect Acknowledge message to a router to set up a connection, the router releases the virtual circuit, with a cause code of 100.

CR 147266-3: IGMP

A Passport 5430 router running IGMP relay faults when a DVMRP multicast router is downstream from that router.

CR 147534-2: Frame Relay

Setting the queue limit on one virtual circuit causes the queue limits on other virtual circuits that have had their queue limits modified to revert to the default settings.

CR 147585-1: MPOA

When you are running MPOA on a busy VNR 5782 or ATM router, a fault may occur.

CR 147686-2: Passport 2430/FT1

The MIB parameter wfDs1E1PortEntry.wfDs1E1PortLoopbackState is not reset back to 1 (no loop) when loopback mode is terminated on the FT1 interface on a Passport 2430.

CR 147687-2: Passport 5430/FT1

The MIB parameter wfDs1E1PortEntry.wfDs1E1PortLoopbackState is not reset back to 1 (no loop) when loopback mode is terminated on the FT1 interface on a Passport 5430.

CR 148172-3: Frame Relay

Using protocol priority and traffic shaping on low-speed links over a high-speed physical line results in low queue starvation.

CR 149031-2: Passport 5430/FT1

If an FT1 module on a Passport 5430 is configured as a frame relay switch, and the physical connection is disconnected, the sync LED for the FT1 stays on and the state of upper-level protocols, such as IP, remains up. If you reconnect the link and then disconnect it again, the router does not register the event in the log.

CR 149111-2: Passport 5430/FT1

If an FT1 module on a Passport 5430 is configured with PPP, and the physical connection is disconnected from the FT1 module for an extended period of time and then reconnected, the log reports that an LCP request is being sent. However, **show sync stats** does not show any increment in receive or transmit frames and the upper-level protocols, such as IP, remain down.

CR Q00021061-03: VRRP

About every 48 days, a VRRP router causes a multicast storm or stops sending VRRP advertisements.

CR Q00032218-01: NVFS

If you make changes to the flash card using the **format**, **compact**, **copy**, **delete**, **ftp**, **tftp**, or **partition** commands, the wfFsVolEntry MIB parameter does not get updated.

CR Q00035722-02: VRRP

If two ARN routers are configured to support two virtual routers, with the first ARN configured to master the first virtual router and the second ARN configured to master the second one, and each router is providing full redundancy and load balancing for the other, one ARN may eventually fault due to a global buffer depletion.

CR Q00046382-03: DLSw

DLSw drops NetBios SMB NETLOGON request frames received over WAN/SPP.

CR Q00054653-01: Frame Relay

The Passport 5430 and Passport 2430 routers will drop IP frames received over a Frame Relay network if they include a SNAP header.

CR Q00061782-02: OSPF

When an OSPF link becomes disconnected or disabled, thereby breaking an OSPF area into two parts separated by an RIP link, the OSPF EXTERN LSDB may not be added to the IP Routing table.

CR Q00080547-02: Passport 2430

The Xircom PCMCIA modem version RM 56 V1.1 does not work on the Passport 2430.

Site Manager Software Version 15.0.0.0 Fixed Anomalies

Nortel Networks has fixed the following anomalies in Site Manager Software Version 15.0.0.0.

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CR 129026-1: Event Manager

The slot filter in the Event Manager doesn't show slot 7 when you are opening a local log file of a VNR, so that only slots 1 to 6 and slots 8 to 14 can be filtered.

CR 135300-1: OSI

When you use Report Generator on a configuration that contains OSI manual area addresses, the utility displays an error message and writes an invalid instance ID for each manual address within the created ASCII file.

CR 137894-1: X.25

When configuring an X.25 interface with Site Manager, if you edit the packet length parameters for the interface, the MTU size for the line parameters changes unexpectedly.

CR 141675-1: IP Traffic Filters

When you create an IP traffic filter, and use a large template filter file, Site Manager does not display all the template definition names.

CR 141648-1: PPP

PPP help screen shows incorrect default value for the MIB wfPppLineRfc1661Compliance.

CR 143480-1: Configuration Manager

When you are creating a new configuration or modifying an existing configuration, Site Manager does not allow you to add or modify a circuit name. This issue does not occur once a quad sync module is configured on the router.

CR 145164-1: ATM E1/T1

After you set the framing mode on the Passport 5430 ATM E1/T1 interface to E1PLCP or T1PCLP, and then exit, the framing mode returns to T1ADM or E1ADM. The MIB has been updated correctly.

CR 145215-1: Frame Relay

Frame relay service record names are not saved after they are created.

CR 146729-1: BGP

The BGP help screen incorrectly describes which routes are accepted by various configurations of the BGP accept policy.

CR 146938-1: OSPF

When you initially configure or modify an OSPF interface, the list of available options you use to set the broadcast type does not include Passive.

CR 147043-1: Quad 10/100BT module

When you install and configure a Quad 10/100BT module, Site Manager incorrectly enables flow control.

CR 147582-1: Traffic Filters

When you use Site Manager to create a large inbound traffic filter, Site Manager incorrectly calculates the rule size for the fragments. This causes the BCC **show config –all** script to terminate.