

Read Me First Router Software 9.00 and Site Manager 3.00

Router Software Version 9.00
Site Manager Software Version 3.00

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Bay Networks

The Merged Company of SynOptics and Wellfleet

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Read Me First

This document supplements the *Release Notes for Router Software Version 9.00*, *Release Notes for Site Manager Software Version 3.00*, and *Known Anomalies: Router Software Version 9.00 and Site Manager Version 3.00*. It contains information about the following:

- Known anomalies in Version 9.00
- Interface redundancy effects on MAC address usage
- Configuring the NetBIOS Query Cache
- Using the *install.bat* script with network management tools
- IPX enhancements
- Guidelines for working with Version 9.00
- CRs we have identified and resolved in the Version 8.11 fix 4 software integration

Known Anomalies in Version 9.00

These known anomalies supplement those included in *Known Anomalies: Router Software Version 9.00 and Site Manager Version 3.00*.

Anomaly: Outbound SAP filter cost parameter does not work properly

Number: 19199

Description: If you configure an outbound SAP network or name level filter to advertise a particular service or group of services with a specific cost (hop), the cost defined will be advertised in all services of a particular type; that is, 0x0004, if the filter matches one of the services in this particular type. For example, if one type 0x0004 service matches the filter with a cost of 10, all type 0x0004 services will be advertised with a cost of 10 even though they do not match the filter.

Workaround: A possible workaround is to configure another outbound SAP filter with a lower priority to advertise services of a particular type or all types with a cost of 0. SAP inbound filters may also be used.

Anomaly: New IPX MIB not easily seen using Quick Get facility

Number: 19139

Description: When you select the Quick Get facility from the Statistics Manager, Site Manager displays the former IPX MIB followed by the new IPX MIB. If you do not scroll down the MIB beyond the former IPX MIB, you might be led to believe that you cannot access the new IPX MIB through the Quick Get facility and the Screen Builder facility.

Anomaly: Configuring trap exceptions in Site Manager causes GPF fault

Number: 19236

Description: When you enter Protocols→IP →SNMP→Trap Configuration→Exceptions, then add the exceptions and press OK, Site Manager attempts to configure trap exceptions on the Windows version but generates a GPF fault instead. This condition applies only to the PC platform. The UNIX platform remains unaffected.

Workaround: From the Technician Interface, enter the MIB variable **wfSnmpTrapEventEntry**. A list of MIB variables displays. Add an exception configuration by entering the following command:

```
setwfSnmpTrapEvent Entry.2.<entity code>.<event code> <always/never traps>;commit
```

where:

- entity code= 0 through 61
- event code= 0 through 255
- always/never traps= 1 (always) and 2 (never)

Anomaly: Enhancement to give control over who initiates the call for X.25 PTOp

Number: 14609

Description: Bay Networks has enhanced the X.25 PTOp software to enable you to configure a X.25 PTOp link to determine who initiates the call request on a Point-to-Point link, regardless of the router's X.121 address. You can configure a PTOp link by setting wfX25ServiceEntry.wfX25ServicePtopCallRequest to one of the following interface options:

- 1: NORMAL – Use the largest X.121 address (default)
- 2: LOCAL – The local side will initiate the call
- 3: REMOTE – The remote side will initiate the call

Anomaly: Protocol Prioritization does not work over an ISDN PRI circuit

Number: 19096

Description: Protocol Prioritization/Outbound filtering does not work properly (filters fail to increment) when used over ISDN PRI demand circuits on MCT1/E1 cards. Similar filters that operate over ISDN BRI and Switched Services circuits using modems/TA (COM ports) work properly, as do non-PRI circuits configured on MCT1/E1 cards.

Anomaly: ANH router with X10 will not work with Optivity D and A if the Ethernet is not configured as circuit 1

Number: 18808

Description: An ANH router with X10 will not work with Optivity D and A if you have not configured the Ethernet interface that supports the X10 as the first circuit.

Anomaly: OSPF does not send default summary into stub area when Import Summaries is set to No

Number: 19127

Description: An Area Boundary Router (ABR) should generate a default summary into a stub area (if it has a default) regardless of whether you have set the Import Summaries switch for stub areas to Yes or No. However, an ABR does not generate a default summary into a stub area unless you set the Import Summaries switch to Yes.

Workaround: Set the Import Summaries switch for stub areas to Yes.

Interface Redundancy Effects on MAC Address Usage

When you configure interface redundancy, the active interface uses the following a MAC address in hexadecimal radix:

0x2000 A2xx xxxx

- 0x20 indicates that the address is locally administered by Bay Networks
- 00A2 identifies the Bay Networks OUI
- xx xxxx identifies the unique router identification

The active interface in an interface redundancy group uses the MAC address for all traffic, including Breath of Life (BOFL). The MAC address switches among interfaces in the interface redundancy group so that it always represents the active interface.

The MAC address affects network layer protocol adjacent host setups on adjacent routers. For example, if you have adjacent routers and the IP adjacent host is defined with its next hop being the active interface in an interface redundancy group, the adjacent host MAC address must be the active MAC address, that is

0x2000 A2xx xxxx

You can find the complete active MAC address in the interface MIB (Ethernet, Token Ring, FDDI) of the router on which interface redundancy is configured. For example, if you are configuring Ethernet, you can find the active MAC address in the Ethernet MIB by entering the following command from the Technician Interface:

get wfCSMACDEntry.wfCSMACDMadr.*

Among the entries displayed in the MIB is the MAC address **0x2000 A2xx xxxx**, which is used for interface redundancy. If you configured more than one interface redundancy group on the same router, you will see more than one entry with the same MAC address. This is not a problem because the two redundancy groups are in different subnets.

Configuring the NetBIOS Query Cache

When you configure the NetBIOS Query Cache parameter, which appears in the Source Route Bridge Global Parameters window, you can now globally enable or disable the ability of bridges to cache the NetBIOS source name, MAC address, and RIF path associated with each NetBIOS *name query*, *add name query*, and *add group name query* handled by the node. To edit the Source Route Bridge global parameters using Site Manager, select Protocols → Source Routing → Global from the Configuration Manager window.

Using the *install.bat* Script with Network Management Tools

Referring to establishing an initial IP interface with the router, the introduction to the *install.bat* script states: “You perform this procedure so that the router can communicate with the Site Manager workstation.” Actually, you do not have to use Site Manager. The IP connection established through *install.bat* lets you configure and manage a router through any SNMP-compliant network management system.

IPX Enhancements

Unnumbered RIP Support

Version 9.00 provides Unnumbered RIP support. Unnumbered RIP operates in a manner similar to RIP, with one notable exception. Unlike RIP, Unnumbered RIP is a numberless protocol that provides a convenient and economical method to assign IPX network numbers. With Unnumbered RIP, you are no longer required to assign an IPX network number to a WAN link using the IPXWAN2 protocol; the router software negotiates between the entities and assigns the IPX network numbers for you.

Configuration Message Enhancement

Due to a parameter name change, the following IPX configuration error message is incorrect:

```
The Circuit Type must have at least 1 item selected if IPXWAN is enabled
```

The message should now read:

```
The Negotiated Protocols field must have at least 1 item selected if IPXWAN is enabled
```

IPX Accept and Deliver Parameters

In the *Release Notes for Router Software Version 9.00*, in the subsection entitled “IPX Enhancements,” we included incorrect information about configuring IPX NetBIOS Accept and Deliver parameters when upgrading to Router Software Version 9.00.

The IPX configurations from previous releases are converted properly.

Guidelines for Working with Version 9.00

Version 9.00 is generally the equivalent of Version 8.11 fix 4, with a few notable exceptions. The fixes come from Clarify Reports (CRs) sent to the Sustaining Engineering department.

We will incorporate all fixes into Version 9.00 fix 1 as soon as it becomes available.

Table 1 shows the CRs that we have identified and resolved in the Version 8.11 fix 4 software integration. We have not resolved these CRs in Router Software Version 9.00. Apart from these exceptions, Version 8.11 fix 4 and Version 9.00 contain the same fixes.

Table 1. CRs Resolved in Version 8.11 fix 4 Software Integration

CR Number	Brief Description
15726	wfMcT1Entry.wfMcT1State shows incorrect value.
18266	Added Resource Statistics utility.
18115	Source Routing Bridge transmits a SRF destined for any group functional address back out the same interface from which it arrived.
18479	Enhancement request to allow you to display a message before the login banner. The request supports a message up to 2K bytes.
No Cr	A problem occurs when DLS receives a bad TCP packet during network crossover.
17891	An orphaned buffer occurs in AppleTalk resulting from the receipt of an invalid RTMP request packet.
18364	Cannot bring up configuration in Site Manager local mode after using dehconfig/hcon.
18598	Large window sizes with modulo 128 cause RNR traffic congestion.
18513	Incorrect XID processing after disconnection.
7266	wfIpInterfaceEntry.wfIpInterfaceForwDatagrams for a Frame Relay interface starts at over 4 billion and decrements rather than increments.
9383	Resetting a slot on a VME router causes Link Module fail LED to remain on erroneously.