

Release Notes for Site Manager Software Version 6.00

BayRS Version 12.00
Site Manager Software Version 6.00

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Technical Support

Bay Networks Customer Service

You can purchase a support contract from your Bay Networks distributor or authorized reseller, or directly from Bay Networks Services. For information about, or to purchase a Bay Networks service contract, either call your local Bay Networks field sales office or one of the following numbers:

Region	Telephone number	Fax number
United States and Canada	800-2LANWAN; then enter Express Routing Code (ERC) 290, when prompted, to purchase or renew a service contract 978-916-8880 (direct)	978-916-3514
Europe	33-4-92-96-69-66	33-4-92-96-69-96
Asia/Pacific	61-2-9927-8888	61-2-9927-8899
Latin America	561-988-7661	561-988-7550

Information about customer service is also available on the World Wide Web at *support.baynetworks.com*.

How to Get Help

If you purchased a service contract for your Bay Networks product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller for assistance.

If you purchased a Bay Networks service program, call one of the following Bay Networks Technical Solutions Centers:

Technical Solutions Center	Telephone number	Fax number
Billerica, MA	800-2LANWAN	978-916-3514
Santa Clara, CA	800-2LANWAN	408-495-1188
Valbonne, France	33-4-92-96-69-68	33-4-92-96-69-98
Sydney, Australia	61-2-9927-8800	61-2-9927-8811
Tokyo, Japan	81-3-5402-0180	81-3-5402-0173

Release Notes for Site Manager Software Version 6.00

Site Manager Version 6.00 lets you manage Bay Networks routers running BayRS Version 12.00.

These release notes include information about

- [New Features in Site Manager 6.00](#)
- [New Guidelines for Working with Site Manager 6.00](#)
- [Guidelines from Previous Site Manager Releases](#)

New Features in Site Manager 6.00

Version 6.00 of Site Manager supports the new features in BayRS Version 12.00, described in the *Release Notes for BayRS Version 12.00*.

New Guidelines for Working with Site Manager 6.00

Note the following new guidelines when using Site Manager Version 6.00. They supplement the instructions in the 12.00/6.00 documentation set.

Site Manager and BayRS Compatibility

Site Manager 6.00 supports the following BayRS versions:

- 10.0
- 10.0x (such as 10.01)
- 11.00
- 11.01
- 11.02
- 12.00

System Requirements

Refer to the section that applies to your PC or UNIX workstation.

PC Requirements

Site Manager for the PC requires the following hardware and software:

- 486 PC (Pentium recommended)
- Microsoft® Windows® 95



Caution: Read the instructions that follow this list before upgrading to Windows 95.

- Microsoft TCP/IP protocol stack provided with Windows 95 and a compatible network adapter and driver
- 16 MB of RAM (minimum)
- 60 MB of free disk space

- CD-ROM drive
- VGA monitor (SuperVGA monitor recommended)

If you purchased a machine with Windows 95 and a network adapter installed, most likely you have the correct TCP/IP protocol stack, network adapter, and driver. Proceed to “Testing TCP/IP” in *Quick-Starting Routers*.

If you need to upgrade from Windows 3.1 to Windows 95, first uninstall any existing 16-bit TCP/IP stack, such as Distinct TCP/IP Run Time. Otherwise, Windows 95 will install the existing stack instead of the Microsoft TCP/IP protocol stack.

If you already upgraded from Windows 3.1 to Windows 95 and the upgrade kept an existing 16-bit TCP/IP stack, such as Distinct TCP/IP Run Time, you must uninstall the 16-bit TCP/IP stack before adding the Microsoft TCP/IP protocol stack.

To uninstall a 16-bit TCP/IP stack, refer to the TCP/IP provider's documentation and support for help in removing the stack's path statements, services file, and WINSOCK.DLL files dated prior to 7/11/95. (That is the date of the WINSOCK.DLL file installed by Windows 95.)

To add or update a protocol, network adapter, or driver, refer to the appropriate documentation and support from Microsoft and the adapter manufacturer. You add protocols and driver updates from the Network option of the Control Panel. You add new network adapters and their drivers from the Add New Hardware option of the Control Panel.

Windows 95 attempts to match a driver to the network adapter installed on your computer. If Windows 95 cannot match a compatible driver, you must update the drivers. Contact the adapter manufacturer for the latest drivers. Microsoft and other Windows 95 Web sites may also have updated drivers.

Refer to the *Microsoft Windows 95 Resource Kit* for additional technical information about these issues. A copy of this guide is available from Microsoft Press.

IBM/AIX Requirements

To run Site Manager, your IBM workstation requires the following hardware and software:

- Supported workstations
 - IBM RS/6000 340, 370
 - PowerPC
- Supported operating system - IBM AIX Version 4.2
- Window environments
 - CDE 1.0.1
 - AIX Motif 1.2
- 32 MB of RAM (64 MB recommended)
- 80 MB of disk space
- 32 MB of swap space (64 MB recommended -- use 96 MB of swap space with NetView for AIX)
- Network adapter appropriate for your network
- CD-ROM drive

HP 9000 Requirements

To run Site Manager, your HP 9000 requires the following hardware and software:

- Supported workstations - HP 9000 Series 700 or 800
- Supported operating system - HP-UX 10.20, including the complete *services* (network services) directory
- Window environment - CDE 1.0.1
- 32 MB of RAM
- 95 MB of disk space
- 32 MB of swap space (64 MB recommended)
- Network adapter appropriate for your network
- CD-ROM drive

SPARCstation Requirements

To run Site Manager, your SPARCstation requires the following hardware and software:

- Supported workstations
 - SPARCstation 10, 20
 - UltraSPARCstation
- Supported operating systems
 - SunOS 4.1.4
 - Solaris 2.5 and 2.5.1
- Window environment for Solaris
 - CDE 1.0.1
 - OpenWindows 3.5
- 32MB of RAM (64 MB recommended)
- 32 MB of swap space
- 85 MB of disk space
- Network adapter appropriate for your network
- CD-ROM drive

Installing Site Manager on a UNIX Workstation

When the Site Manager installation completes, your workstation prompt appears. The following information and instructions do not, but should, appear:

```
Site Manager installation complete.
```

You must have the following environment variables set as shown:

```
WF_SMPATH = /usr/wf
```

```
SMTERM = X
```

```
BUILDER_DIR = <dir for router image storage>
```

```
And you must add /usr/wf/bin to your PATH.
```

Restricting the Number of Well-Known Connections

Site Manager supports up to 50 well-known connections.



Caution: Do not add more than the maximum number of connections.

Configuring IP Multicasting and Multimedia Services

This section supplements Appendix A, “Site Manager Parameters,” in *Configuring IP Multicasting and Multimedia Services*. It provides the Site Manager menu path to each DVMRP, MOSPF, IGMP, and MTM policy filter parameter, information about default settings, valid parameter options, the parameter function, instructions for setting the parameter, and the MIB object ID.



Note: The following DVMRP, MOSPF, and IGMP policy filter parameter descriptions provide more detailed descriptions than the parameter online Help. Parameter online Help is not available for the MTM policy filter parameters. Use the descriptions in “[MTM Static Forwarding Policy Parameters](#)” on [-15](#) instead.

Announce Policy Parameters for Both DVMRP and MOSPF

Use the following descriptions to set DVMRP and MOSPF announce policies.

Parameter: **Enable**

Path: Configuration Manager > Protocols > IP > Policy Filters > DVMRP > Announce Policies

Path: Configuration Manager > Protocols > IP > Policy Filters > MOSPF > Announce Policies

Default: Enable

Options: Enable | Disable

Function: Enables or disables this policy.

Instructions: Set to Disable to disable the policy.

MIB Object ID: DVMRP: 1.3.6.1.4.1.18.3.5.3.2.6.16.1.2

MIB Object ID: MOSPF: 1.3.6.1.4.1.18.3.5.3.2.6.14.1.2

Parameter: Name

Path: Configuration Manager > Protocols > IP > Policy Filters > DVMRP > Announce Policies

Path: Configuration Manager > Protocols > IP > Policy Filters > MOSPF > Announce Policies

Default: None

Options: Any alphanumeric character string

Function: Identifies this policy.

Instructions: Enter a unique name for the policy.

MIB Object ID: DVMRP: 1.3.6.1.4.1.18.3.5.3.2.6.16.1.4

MIB Object ID: MOSPF: 1.3.6.1.4.1.18.3.5.3.2.6.14.1.4

Parameter: Networks

Path: Configuration Manager > Protocols > IP > Policy Filters > DVMRP > Announce Policies

Path: Configuration Manager > Protocols > IP > Policy Filters > MOSPF > Announce Policies

Default: An empty list

Options: A list of network identifiers. Each identifier consists of a network number, a mask, and a flag to indicate whether the ID refers to a specific network or a range of networks.

Function: Specifies which networks will match this policy.

Instructions: Enter a specific encoding of 0.0.0.0/0.0.0.0 to match the default route. Enter a range encoding of 0.0.0.0/0.0.0.0 to match any route. Enter an empty list to match any route.

MIB Object ID: DVMRP: 1.3.6.1.4.1.18.3.5.3.2.6.16.1.5

MIB Object ID: MOSPF: 1.3.6.1.4.1.18.3.5.3.2.6.14.1.5

Parameter: Action

Path: Configuration Manager > Protocols > IP > Policy Filters > DVMRP > Announce Policies

Path: Configuration Manager > Protocols > IP > Policy Filters > MOSPF > Announce Policies

Default: DVMRP: Ignore
MOSPF: Announce

Options: DVMRP: Ignore
MOSPF: Announce | Ignore

Function: Specifies whether to advertise a route that matches this policy.

Instructions: DVMRP: Ignore is the only option available. The router drops the route.

MOSPF: To advertise the route, specify Announce. To drop the route, specify Ignore.

MIB Object ID: DVMRP: 1.3.6.1.4.1.18.3.5.3.2.6.16.1.6

MIB Object ID: MOSPF: 1.3.6.1.4.1.18.3.5.3.2.6.14.1.6

Parameter: Rule Precedence or Precedence

Path: Configuration Manager > Protocols > IP > Policy Filters > DVMRP > Announce Policies

Path: Configuration Manager > Protocols > IP > Policy Filters > MOSPF > Announce Policies

Default: 0

Options: A metric value

Function: Specifies a metric value to be used to compare this policy with other policies that a route may match. A policy with a higher metric takes precedence over a policy with a lower metric. In case of a tie, the protocol uses an internal index value assigned to the policy by IP software. The position of the policy in the list indicates the index value from lowest to highest.

Instructions: Use this parameter to assign precedence to policies that match the same route.

MIB Object ID: DVMRP: 1.3.6.1.4.1.18.3.5.3.2.6.16.1.7

MIB Object ID: MOSPF: 1.3.6.1.4.1.18.3.5.3.2.6.14.1.7

Parameter: Advertise

Path: Configuration Manager > Protocols > IP > Policy Filters > DVMRP > Announce Policies

Path: Configuration Manager > Protocols > IP > Policy Filters > MOSPF > Announce Policies

Default: An empty list

Options: A list of network identifiers

Function: Specifies network IDs to include in place of the network IDs listed in the route to be advertised.

Instructions: Specify a non-null value only if the announce Action parameter is Propagate. The values you enter in the advertise list determine the action taken.

If you supply a list of network IDs, these IDs are advertised instead of the actual IDs in the route.

If you use the default (an empty list), the actual IDs are advertised. Note that by default, BGP-4 aggregates subnets into their natural network IDs.

If you supply a list that includes the encoding 255.255.255.255/255.255.255.255, the actual network IDs are advertised along with the other IDs in the advertise list. This allows advertisement of an aggregate or default along with the actual network. If the actual network is a subnet (and the advertising protocol supports subnet advertisements), the subnet is advertised.

MIB Object ID: DVMRP: 1.3.6.1.4.1.18.3.5.3.2.6.16.1.10

MIB Object ID: MOSPF: 1.3.6.1.4.1.18.3.5.3.2.6.14.1.10

DVMRP-Specific Announce Policy Parameters

Use the following descriptions to set DVMRP-specific announce policies.

Parameter: Filtered Circuits

Path: Configuration Manager > Protocols > IP > Policy Filters > DVMRP > Announce Policies

Default: An empty list

Options: Leave empty or specify one or more 2-octet circuit numbers.

Function: This is a list of DVMRP circuits. By specifying a circuit in this list, the filter applies to DVMRP advertisements sent using that circuit.

Instructions: If you want this filter to apply to any outbound DVMRP circuit, do not specify any value for this parameter.

If you want this filter to apply to specific outbound DVMRP circuits, specify the circuit numbers in 2-octet strings.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.16.1.22

Parameter: Filtered Tunnels

Path: Configuration Manager > Protocols > IP > Policy Filters > DVMRP > Announce Policies

Default: An empty list

Options: Leave empty or specify one or more 8-octet IP addresses.

Function: This is a list of DVMRP tunnels. If a tunnel interface appears in this list the filter applies to DVMRP advertisements sent via that tunnel. Each tunnel takes 8 octets, the first 4 of which are for the local IP address, and the last 4 are for the remote IP address.

Instructions: If you want this filter to apply to any DVMRP tunnel, do not specify any value for this parameter.

If you want this filter to apply to specific DVMRP tunnels, specify the IP addresses in 8-octet strings. Entering all Fs for the first IP address turns off this filter.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.16.1.23

IGMP Group Policy Parameters

Use the following descriptions to set IGMP group policies.

Parameter: Enable

Path: Configuration Manager > Protocols > IP > Policy Filters > IGMP

Default: Enable

Options: Enable | Disable

Function: Enables or disables this policy.

Instructions: Set this parameter as required.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.11.1.2

Parameter: Name

Path: Configuration Manager > Protocols > IP > Policy Filters > IGMP

Default: None

Options: Any alphanumeric character string

Function: Specifies a user name for this policy.

Instructions: Enter a unique name for this policy.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.11.1.4

Parameter: Sources

Path: Configuration Manager > Protocols > IP > Policy Filters > IGMP

Default: An empty list

Options: Leave empty or specify one or more sources.

Function: Identifies which sources will match this rule.

Instructions: If you want this filter to match any source, do not specify any value for this parameter.

To specify an exact source address or range of source addresses, enter one or more octet groupings in the following form:

first octet: exact (1) or range (2)

next 4 octets: source address

next 4 octets: source mask

An entry with an exact tag matches only the specific source (number and mask). An entry with a range tag matches any prefix that falls in the range indicated by the source and mask.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.11.1.5

Parameter: Action

Path: Configuration Manager > Protocols > IP > Policy Filters > IGMP

Default: Ignore

Options: Accept | Ignore

Function: Specifies whether to accept or ignore the group join.

Instructions: Specify Accept to accept the group join, or Ignore to ignore the group join.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.11.1.6

Parameter: Precedence

Path: Configuration Manager > Protocols > IP > Policy Filters > IGMP

Default: 0

Options: A metric value

Function: Specifies a metric value to be used to compare this policy with other policies that a route may match. A policy with a higher metric takes precedence over a policy with a lower metric. In case of a tie, the protocol uses an internal index value assigned to the policy by IP software. The position of the policy in the list indicates the index value from lowest to highest.

Instructions: Use this parameter to assign precedence to policies that match the same route.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.11.1.8

Parameter: Groups

Path: Configuration Manager > Protocols > IP > Policy Filters > IGMP

Default: An empty list

Options: Leave empty or specify one or more groups.

Function: Identifies which groups match this rule.

Instructions: If you want this filter to match any group, do not specify any value for this parameter.

To match specific groups, enter group number and group mask combinations as follows:

4 octets: group number

next 4 octets: group mask

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.11.1.10

Parameter: Circuits

Path: Configuration Manager > Protocols > IP > Policy Filters > IGMP

Default: An empty list

Options: Leave empty or specify one or more 2-octet circuit numbers.

Function: Identifies which circuits match this rule.

Instructions: If you want this filter to match any circuit, do not specify any value for this parameter.

If you want this filter to apply to specific circuits, enter the circuit numbers in 2-octet strings.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.11.1.11

Parameter: Senders

Path: Configuration Manager > Protocols > IP > Policy Filters > IGMP

Default: An empty list

Options: Leave empty or specify one or more sender address and sender mask octet combinations.

Function: Identifies which senders match this rule.

Instructions: If you want this filter to match any sender, do not specify any value for this parameter.

To match specific senders, enter sender address and sender mask combinations as follows:

4 octets: sender address

next 4 octets: sender mask

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.11.1.12

MTM Static Forwarding Policy Parameters

Use the following descriptions to set MTM static forwarding policies.

Parameter: Enable

Path: Configuration Manager > Protocols > IP > Policy Filters > MTM

Default: Enable

Options: Enable | Disable

Function: Enables or disables this policy.

Instructions: Set to Disable to disable the policy.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.12.1.2

Parameter: Name

Path: Configuration Manager > Protocols > IP > Policy Filters > MTM

Default: None

Options: Any alphanumeric character string

Function: Identifies this policy.

Instructions: Enter a unique name for the policy.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.12.1.4

Parameter: Groups

Path: Configuration Manager > Protocols > IP > Policy Filters > MTM

Default: An empty list

Options: Leave empty or specify one or more groups.

Function: Identifies which groups match this rule.

Instructions: If you want this filter to match any group, do not specify any value for this parameter.

To match specific groups, enter group number and group mask combinations as follows:

4 octets: group number

next 4 octets: group mask

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.12.1.5

Parameter: Preference

Path: Configuration Manager > Protocols > IP > Policy Filters > MTM

Default: 1

Options: 0 | any integer from 1 to 16

Function: Accept the default (1) setting or assign a nonzero value (from 1 to 16), if you want the policy to overwrite multicast protocols. Specify 0 if you want multicast protocols to overwrite the policy.

If the policy can overwrite protocols, it makes the forwarding decisions. If protocols can overwrite the policy, the protocols make the forwarding decisions.

Instructions: Accept the default to allow the policy to overwrite the multicast protocols. Specify 1 to allow the protocols to overwrite the policy filter.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.12.1.7

Parameter: Precedence

Path: Configuration Manager > Protocols > IP > Policy Filters > MTM

Default: 0

Options: A metric value

Function: Specifies a metric value to compare this policy with other policies that a route may match. A policy with a higher metric takes precedence over a policy with a lower metric. In case of a tie, the protocol uses an internal index value assigned to the policy by IP software. The position of the policy in the list indicates the index value from lowest to highest.

Instructions: Use this parameter to assign precedence to policies that match the same route.

MIB Object ID: MOSPF: 1.3.6.1.4.1.18.3.5.3.2.6.12.1.8

Parameter: Sources

Path: Configuration Manager > Protocols > IP > Policy Filters > MTM

Default: An empty list

Options: Leave empty or specify one or more sources.

Function: Identifies which sources will match this rule.

Instructions: If you want this filter to match any source, do not specify any value for this parameter.

To specify an exact source address or range of source addresses, enter one or more octet groupings in the following form:

first octet: exact (1) or range (2)

next 4 octets: source address

next 4 octets: source mask

An entry with an exact tag matches only the specific source (number and mask). An entry with a range tag matches any prefix that falls in the range indicated by the source and mask.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.12.1.10

Parameter: In Circuits

Path: Configuration Manager > Protocols > IP > Policy Filters > MTM

Default: An empty list

Options: Leave empty or specify one or more 2-octet circuit numbers.

Function: Lists inbound circuits.

Instructions: If you do not want this circuit to accept any inbound packets, leave the value for this parameter empty.

If you want this circuit to accept inbound packets, enter the circuit number or numbers, in 2-octet strings.

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.12.1.11

Parameter: Out Circuits

Path: Configuration Manager > Protocols > IP > Policy Filters > MTM

Default: An empty list

Options: Leave empty or specify one or more outbound circuit number and time-to-live (TTL) threshold octet combinations.

Function: Lists outbound circuits.

Instructions: If you do not want this circuit to forward any packets affected by this filter, leave the value for this parameter empty.

To define a circuit number and TTL threshold from which you want to forward packets, enter the octets as follows:

first 2 octets: circuit number

next 2 octets: TTL threshold

MIB Object ID: 1.3.6.1.4.1.18.3.5.3.2.6.12.1.12

Configuring DECnet Services: Adjacent Host Address Parameter

The Destination Mac Address parameter, which appeared in the Static Adjacent Hosts List window, is renamed the Adjacent Host Address parameter. It supports an X.25 PVC logical channel number. See the following parameter description:

Parameter: Adjacent Host Address

Path: None

Default: An empty list

Options: Depends on the circuit type (see below)

Function: Specifies the address of an adjacent host

Instructions: Enter the adjacent host address by following these guidelines:

- If this circuit is not an X.25 PDN circuit, enter the 48-bit Ethernet address of the static adjacency.
- If this circuit is an X.25 circuit that connects to an X.25 permanent virtual circuit (PVC), enter an X.25 logical channel number.
- If this circuit is an X.25 circuit that connects to an X.25 switched virtual circuit (SVC), then enter a valid X.121 address.

MIB Object ID: 1.3.6.1.4.1.18.3.5.2.7.9

Guidelines from Previous Site Manager Releases

The following guidelines remain in effect for Version 6.00. They supplement the instructions in the 12.00/6.00 documentation set.

Outbound LAN Traffic Filters

When implementing outbound traffic filters for LAN protocols, note that in some configurations the filters may cause a decline in throughput performance. For LAN circuits where the forwarding rate of the router is critical, we suggest that you monitor the throughput performance after configuring outbound LAN filters. If you notice an unacceptable performance degradation, try using inbound traffic filters to accomplish the filtering goal.

Socket Binding Message with UNIX Network Management Systems

UNIX network management systems such as OpenView or SunNet Manager may prevent Site Manager from binding to the SNMP sockets. As a result, Trap Manager fails to operate and issues the following messages:

```
wftraps: : Unable to bind udp/snmp sockets. (C3501)
```

```
wftraps: : Permission to bind a socket is denied. Verify that the  
application is owned by "root", and that the permissions have been  
configured to set the effective user id to that of the owner of the file  
when the file is run. If the permissions are correct, another process may  
have already bound to the udp ports. (C3501)
```

To solve this problem, close the NMS and its processes by terminating their process IDs and start Site Manager from the command line.

