Release Notes for Optivity Campus 7.0.1

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Bay Networks

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Introduction

These release notes describe the latest enhancements to Optivity Campus™ 7.0.1. They supplement your Optivity Campus 7.0 documentation set. Be sure to read these notes before using the Optivity® network management software.

Note: The Optivity Campus 7.0.1 documentation is supplied in Adobe Acrobat format on the Optivity Campus 7.0.1 Documentation CD. See the *Optivity Campus 7.0.1* CD booklet for more information.

The following information is included:

New Features

Optivity Campus 7.0.1 has the following new features:

- Now works with the following new network management platforms in addition to HP OpenView Workgroup Node Manager:
  - — HP OpenView Network Node Manager version 5.0x for NT (must be purchased separately)
  - — Tivoli TME 10 NetView version 5.0x for NT (must be purchased separately)
- Includes updated SpeedView™ 3.2.1 software
- Includes updated Quick2Config™ 1.3.2 software
- Includes support for Centillion™ versions 2.0 and 3.1 agents
- Includes Switch Monitor support for all Bay Networks® switches
- Includes support for Accelar Device Manager and VLAN Manager 1.3
- Includes support for Netwave Air Surfer Manager.

New Hardware Support

Optivity Campus 7.0.1 for Windows offers network management support for the following new Bay Networks devices:

- Includes support for the following new Bay Networks devices:
  - Accelar™ 105x, 1100 and Accelar 1200 routing switches
  - Centillion C20, C50, and C100 switches
  - System 5000BH modules
  - Model 5505S, Model 5505PS, Model 5575A-C and Model 5575A-F token ring host modules with Distributed Automatic Beacon Removal (DABR)
  - Model 5616SA Ethernet/Fast Ethernet modules
  - Model 5625 Autosense switch module
  - Model 5660-FX, Model 5625, and Model 5665 switch modules
  - BayStack™ 600 Series
  - BayStack 450 Switches
  - BayStack 350 10/100/1000 Switches
  - BayStack 303 and BayStack 304 Ethernet Switches
  - BayStack 250 Series Autosense Hubs
  - BayStack 200 Series 100BASE-TX Hubs
  - BayStack 150 Series 10BASE-T Hubs
  - BayStack 350 Series Autosense Switches

The new supported devices and the Optivity Campus applications that support them are shown in Table 1.

Table 1. Device Support by Application

	CCC Autodiscovery	Expanded View	Flat Network View	Segment View	Alarm Manager	Threshold Manager	RMON Applications	Nodal View	Conversation Steering	LANarchitect	Probe Connectivity	Switch Monitor	Node Security	Report Manager	Redundant Links	Agent Manager	VMan/DMan
Accelar 1108, 1216	X																X
Accelar 1100, 1200	X						X										X
Accelar 1050, 1051	X																X
Centillion C100	X	X	X		X	X	X				X	X					
Centillion C50	X	X	X		X	X	X				X	X					
Centillion C20	X	X	X		X	X	X										
System 5000BH	X	X	X		X	X	X				X	X					
Model 5505, 5575 w/DABR	X	X	X	X	X	X	X			X							
Model 5616SA	X	X			X	X	X	X		X			X	X	X	X	
Model 5660-FX, 5665	X	X	X		X	X	X				X	X	X	X			
Model 5625	X	X	X		X	X	X				X	X					
BayStack 600	X																
BayStack 450-12T	X	X	X		X	X	X					X		X			
BayStack 450-24T	X	X	X		X	X	X					X		X			
BayStack 350-12T	X	X	X		X	X	X					X		X			
BayStack 350-24T	X	X	X		X	X	X					X		X			
BayStack 304	X	X	X		X	X	X					X		X			
BayStack 303	X	X	X		X	X	X					X		X			
BayStack 250	X	X	X	X	X	X	X	X					X		X	X	
BayStack 200	X	X	X	X	X	X	X	X		X				X	X		
BayStack 150	X	X	X	X	X	X	X	X					X	X	X	X	

Agent Support

Table 2 lists the most current agents, configuration templates, and protocols supported by Optivity Campus 7.0.1.

Note: Optivity Campus 7.0.1 does not include agent image files for Bay Networks products. To obtain agent images, you must enroll in the Bay Networks Software Services program. For more information, contact Bay Networks Software Subscription Services at one of the following telephone numbers
1-800-736-2666 (North America) or
1-408-450-3666 (International).

Table 2. Agent Support

Agent Software	Standard Agent	Advanced Agent	Advanced Analyzer Agent	Image File	Configuration File
Model 810M version 1.0.3	X			810M103.IMG	810M103.CFG
Model 271x version 3.5.0	X			271x350K.IMG	TR350.cfg
Model 271x version 5.1.5		X		271x515K.IMG	TR515.cfg
Model 271xSA version 2.0.0			X	271SA200.IMG	271SA200.CFG
Model 2810 version 3.3	X		X	b2810x33.IMG	b2810x33.CFG
Model 2810 version 4.0		X	X	b2810x40.IMG	b2810x40.CFG
Model 281x version 5.3.3	X	X		281X533.IMG	281x533.CFG
Model 281xSA version 2.0.0			X	281SA200.IMG	281SA20.CFG
Model 331x version 5.3.3	X	X		331X533.IMG	331x533.CFG
Model 331xA version 5.3.3	X	X		331A533.IMG	331A533.CFG
Model331xS version 5.3.3		X		331S533.IMG	331S533.CFG
Model 331xSA version 2.0.0			X	331SA200.IMG	331SA200.CFG
Model 3410 version 2.0.0		X		3410_200.IMG	3410_200.CFG
Model 351x version 3.5.1	X			351x351K.IMG	TR351.CFG
Model 351x version 5.1.5		X		351x515K.IMG	TR515.CFG
Model 351xSA version 2.0.0			X	351SA200.IMG	351SA200.CFG
Model 5310 version 1.5.1			X	5310_151.IMG	5310_151.CFG

Table 2. Agent Support (continued)

Agent Software	Standard Agent	Advanced Agent	Advanced Analyzer Agent	Image File	Configuration File
Model 5310A/SA version 2.0.1		X	X	5310A201.IMG	5310A201.CFG
Model 5510 version 2.0.0		X	X	5510_200.IMG	5510_200.CFG
Model 5616 version 1.5.3		X	X	5616_153.IMG	5616_153.CFG
System 5000BH version 3.2.1				AXF32100.bh or T8N32101.bh	
BayStack Ethernet Workgroup Switch (6 port) version 3.2.9	X			SWITCH.BIN SWITCH2.BIN	N/A
BayStack Ethernet Workgroup Switch (7 port) version 3.2.9	X			EWG7S329.ZIP*	N/A
BayStack 10BASE-T Ethernet NMM version 2.0.0 Standard Agent	X			BBSE_200.IMG	BBSE_200.CFG
BayStack 10BASE-T Ethernet NMM version 2.0.0 Advanced Agent		X		ABSE_200.IMG	ABSE_200.CFG
BayStack 10BASE-T Ethernet NMM version 2.0.0 Advanced Analyzer Agent			X	SBSE_200.IMG	SBSE_200.CFG
BayStack 10BASE-T DCM version 2.0.0			X	LN11_200.IMG	
BayStack 100BASE-T Ethernet NMM version 2.0.0			X	100BT200.IMG	100BT200.CFG
BayStack 150 version 3.0				B15x_300.img	B15x_300.cfg
BayStack 250 version 3.1				B25x_310.img	B25x_310.cfg
BayStack 200 version 1.0.2				B200_310.img	B200_310.cfg
BayStack 301 version 2.1.0				EXX21010.301	
BayStack 302 version 2.1.0	X			B30x_210.img	B30x_210.cfg
BayStack 303, 304 version 2.1				BS30x_210.img	BS30x_210.cfg

Table 2. Agent Support (continued)

Agent Software	Standard Agent	Advanced Agent	Advanced Analyzer Agent	Image File	Configuration File
BayStack 350, 350T, 350FDH version 2.0.2				B350_202.img	
BayStack 450 12T, 24T version 1.1				B4501012.img	
BayStack Token Ring NMM version 1.2.1 Standard Agent	X			BST_121.IMG	BST_121.CFG
BayStack Token Ring NMM version 1.2.1 Advanced Agent		X		ABST_121.IMG	ABST_121.CFG
BayStack Token Ring NMM version 2.0.0 Advanced Analyzer Agent			X	SBST_200.IMG	SBST_200.CFG
BayStack Token Ring DCM version 2.0.0			X	n511_200.img	
53DN DCM version 2.0.0				LN11_200.img	
Distributed 5000™ host firmware version 1.3.0				5d03_130.img	
Model 281xx version 2.1.0				28k210.img	
Model 282xx version 2.1.0				28k210.img	
Model 58xxx version 2.1.0				58k210.img	
Centillion100 version 3.2.1				AXF32100.100 or T8F32100.100	

*The following comments apply to the image file used for the BayStack Ethernet Workgroup Switch (7-port) version 3.29.:
This image file is included in a .ZIP file which you unpack to a separate directory using the PKUNZIP utility. Once unpacked, carefully read the README.TXT file for instructions on how to download the image file. The image file unpacked from the EWG7S329.ZIP file can only be used with the BayStack Ethernet Workgroup 7-Port Switch and not with the BayStack Ethernet Workgroup 6-Port Switch.

Operating System Support

Optivity Campus 7.0.1 for HP OpenView (Windows) supports only Windows 95® and Windows NT® Workstation version 4.0. Note that IP is the only supported protocol under Windows NT. When you run Optivity Campus 7.0.1 on Windows 95 or Windows NT Workstation version 4.0, you must disable Dynamic Host Configuration Protocol (DHCP).

Operational Notes

The following sections describe advisories and known problems that pertain to operating Optivity Campus 7.0.1 on your management station.

General

The following general notes apply to a variety of Optivity applications:

- The BayStack 150 is not a multisegment device. However, it does allow for the isolation of individual units from the segment. To isolate a unit from the segment, use Expanded View to open a Show Profile window for the unit and set the Attachment Point parameter to 0. To reconnect a BayStack 150, set the Attachment Point back to 1.

Note: Isolating a BayStack 150 Series hub using the Attachment Point parameter disables all management functions except the setting of the Attachment Point parameter.

- Model 5505P host modules must be equipped with Model 559 EMTs in order to be recognized by Ring Manager and by the FPU table.
- Access Node Hub (ANH™) devices initialize the repeater MIB to 0xFF instead of 0. Thus, invalid numbers appear in the fields of the Repeater MIB Diagnostics display shown in Figure 5-19 in Chapter 5, “Monitoring Your Network,” of *Using Optivity Campus 7.0 for Windows.*
- When a Model 559 daughterboard is connected to a Model 5505P module, LANarchitect™ shows the Model 559 device as port 21 on the network management module (NMM).
- In a routing environment, Optivity Campus 7.0.1 does not support multiple networks on a single router interface (a practice known as multinetting).

- In historic line charts, when a display is zoomed in range, all points in the graph with values greater than the zoom range are normalized. To view the actual value of all the points, increase the zoom range.
- If you have isolated a cluster for troubleshooting purposes, by definition you have prevented it from communicating. Thus, if you use Expanded View™ to monitor an isolated cluster, there is no connectivity information available for this cluster—only unit, slot, and port information is displayed.
- If you installed Optivity Campus in its default directory. Use the following DOS commands to backup the database:

  cd C:\opt\db

  erase *.taf

  erase *.log

  backup *.* a:/s

- If a database error (DBLayer) occurs when you start Optivity for HP OpenView, this error could indicate that your hard disk is full and the database could not be written. Remove files from your hard disk and restart the system.
- If you run a program that uses Windows Sockets (WinSock) on a Windows 95 workstation, a gradual increase in the memory used by the operating system might occur over time, especially if the program opens and closes a large number of sockets. You can free the resources associated with a program by exiting the program. If you quit and restart Windows 95, the memory is freed.
- Bay Networks recommends that you use a PostScript printer when printing from Optivity applications. Also, Optivity does not support the Print to File feature.
- For the IP Trap Receiver table registration to occur on a BayStack Ethernet Workgroup Switch, the agent must be set to default factory settings (such as “Read/Write community string=Private”) and Optivity Campus 7.0.1 must have “DEFAULT=Private” in the *c:\opt\bin\cpasswd.ini* file (the default setting for Optivity Campus 7.0.1).
- In some network configurations with a mix of Bay Networks and Cisco Systems routers, the HP OpenView Network Node Manager alarm log reports error messages regarding duplicate MAC addresses. This problem is caused by the different types of routers storing MAC addresses differently in their respective ARP caches.

Installation

The following notes pertain to installation issues:

- When you re-install or upgrade Optivity Campus 7.0.1 the prompt: “Do you want to save old Database files?” is displayed. If you answer Yes, files are saved in the *opt\saved* directory.

  Refer to “Installing Optivity Campus 7.0 for HP Open View Workgroup Node Manager and Tivoli TME 10 NetView,” Appendix C, “Using the Database Maintenance Tool,” in the section titled “Restoring a Backed Up Database.”

- Optivity Campus 7.0 is fully upgradeable to 7.0.1. You do not need to remove the Campus 7.0 software to perform this upgrade.

- The Optivity Campus 7.0.1 Software CD automatically starts the setup program after the CD is inserted. On some computers, the Windows Autorun feature either has been disabled or does not function properly. If the setup program does not start after about a minute, either start the setup program manually as described in the Getting Started guide, or refer to your computer system documentation for instructions on enabling the Autorun feature.

- If during the upgrade the following error message is displayed:

  “`Setup could not clean up existing Application Directories Please remove <directoryname> from your system” check the following:`

  a. **Close all programs and restart your system before continuing the upgrade.**

  b. **If old Optivity directories were manually deleted choose a different location to install Optivity.**

  c. **If you are an advanced user, remove the “ccc.exe” entry in HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\AppPaths**

- When you are running the setup installation process the Registration files and Optivity options must be selected.

- If you have installed the Air Surfer Manager application used for NetWave™ devices but Campus 7.0.1 fails to detected it, be sure it has been enabled.

  To enable Air Surfer Manager support:

  a. **Install the Air Surfer Manager application.**

b. **Set the "AIRSURF" variable in the synopt.ini file.**

   Example: `AIRSURF=C:\APWebMgr\APWebMgr.exe`

c. **Restart Optivity Campus 7.0.1.**

- Optivity Campus 7.0.1 supports up to 80 subnets and 250 manageable devices defined for the monitored network.
- During IPX discovery, Optivity uses the attached IPX server to do discovery. If the database is not complete, set the following variable in the *discover.ini* file:

  ```
  TryAltServers=1
  ```

- When you upgrade from a previous version of Optivity Campus to version 7.0.1, you should manually restore the previously saved Optivity database. To restore the database, copy all of the files from the *\opt\saved* directory to the *\opt\db* directory.
- The error messages, DBLayer Error -23, DBLayer Error -26, and DBLayer Error -40 could indicate that the database transaction file (*vista.taf*) and the log files (*user*.log*) in the Optivity database directory have been corrupted. To correct this problem, perform the System Cleanup procedure described in Chapter 3 of *Getting Started with Optivity Campus 7.0 for HP OpenView Workgroup Node Manager.*
- During installation, you must provide a gateway address. In a routerless environment, enter the gateway address 1.1.1.1.

Platform Software

The following sections contain operational notes regarding the network management platform software supported by Optivity Campus 7.0.1.

HP OpenView Workgroup Node Manager

- HP OpenView D.01.02, version 7.2 supports variable length subnet mask configurations. However, Optivity Campus 7.x does not support this feature and will not discover any devices in the network using variable subnet masks.

- When an Accelar 1100 or Accelar 1200 switch is included on an HP OpenView map, OpenView may fail upon receiving traps from the Accelar device. This problem occurs because the Accelar routing switches send SNMP v2 traps by default, and OpenView can only handle SNMP v1 traps. To prevent this problem, configure the Accelar device as follows to send SNMP v2 traps:

  In the Accelar Device Manager application, choose Edit > Chassis and click on the Trap Receivers tab. Then find the entry for the Optivity Campus management station in the Trap Receivers list and change the Version entry from V2 to V1.

- The HP OpenView Internetwork map comes to the foreground when you select any menu option. This problem only occurs after you select an option from the Applications menu.

- If the HP OpenView Workgroup Node Manager History list of traps is allowed to grow too large (greater than about 25000 entries), opening the History list can appear to halt the computer. Stopping OpenView using the Windows Task Manager or Close Program dialog box in this situation can corrupt the alarm database, which will prevent OpenView from starting. To prevent this problem, use the HP OpenView Customize Alarms dialog box to configure OpenView to delete alarms before the History list grows too large. Note that Acknowledging traps does not delete them, it moves them into the History part of the Alarm Log.

- If you are using HP OpenView Workgroup Node Manager as a standalone application on your PC and you also install Optivity Campus 7.0.1, verify that the settings in your *OVWIN.INI* and *TRAPMGR.INI* files are configured properly.

- During the installation, Optivity 7.0.1 makes some modifications to your existing HP OpenView Workgroup Node Manager (OpenView 7.2) *.ini* and *devices* files. Optivity 7.0.1 creates a backup copy of the *.ini* and *devices* files (for example, *devices.001*, *devices.002*) in the *c:\opt\saved* directory. Use the saved files to return customization to your *.ini* files. (Note, however, that Optivity 7.0.1 does not maintain the original backup copies of your *trapmgr.ini* and *ovwin.ini* files if Optivity is reinstalled.)

- Optivity Campus 7.0.1 is supported on HP OpenView D.01.02 which comes bundled on the installation CD. If you have a different version, please uninstall it prior to installing Optivity Campus 7.0.1.

- Windows requirements for Optivity Campus 7.0.1 on HP OpenView WNM are:

  Windows 95 with Microsoft TCP/IP, Microsoft IPX/SPX stack.

  Windows NT 4.0 with Microsoft TCP/IP stack.

- Any open Optivity Campus applications are closed whenever HP OpenView starts and loads a map.

- The following error message may be displayed if Optivity is closed and then reopened within less than one minute: “Exit Optivity first before logging in again.” This error happens because the logout and login processes take more than 30 seconds to execute. To avoid this problem, wait at least one minute after you log out of Optivity before you log back in or restart Windows.

- If you double-click an icon on the HP OpenView map and the submap is not displayed, do the following:

  — Choose Locate Object from the Window menu.

  — Select a device that is part of the map that could not be displayed.

  — Select Rename Submap from the Edit menu.

  — Delete the DOT at the end.

- When HP OpenView faults with an OVNETMON error, exit OpenView and reboot your system.

- When you use the HP OpenView polling feature, you may receive an “Out of Buffer Condition” error. This error occurs in the Windows 95 environment if all of the following conditions exist:

  — The Optivity station is included in the polling list.

  — The Optivity station is set as the default gateway.

  To correct this problem, remove the Optivity station from the polling list.

- In a switching environment, the color of a device symbol for an Advanced agent NMM on the HP OpenView map might not reflect current device status. To ensure that accurate symbol colors are displayed on the map, add the Advanced agent NMMs you are managing to the HP OpenView polling list and start the polling process.

- If you see the “OVWIN caused a GPF in module <unknown>” message, shut down and reboot the system. Then delete the following files:

```
C:\OPT\DB\*.taf and *.log
C:\*.net
C:\OPT\OV\*.lck and ovalins.*
```

- If the SNMPAltRouterCommunity= parameter is set in the *OVWIN.INI* file, the OpenView discovery process uses this parameter and excludes the SNMPDefaultCommunity= parameter.
- Do not change the OpenView subnet map name for compound objects (such as segment or subnet symbols). The subnet map name and compound object name must be the same in order for OpenView to open the subnet map when you double-click on the compound object.
- When you use the HP Openview SNMP compiler to compile a MIB file which contains other MIB files and receive the following compiler error:

  "The selected files depend on the following MIB file: <list of MIB files>. Please compile these MIB files before attempting to compile this selection."

  Check the following for possible causes.

  - The selected MIB file does not have a dependency on one or more of the MIB files listed.
  - Check the MIB files contents for correct format.
  - Select all MIB files that have dependencies at the same time before compiling or adding them to the database.
- The Optivity Campus database synchronization overwrites the host name field with an IP address which creates the same object twice in the HP OpenView database. A workaround is to select the hostname from the menu bar, choose Autodiscovery > Discover > Update.

HP OpenView NNM and Tivoli TME 10 NetView

Operational Notes

- Original registration files stored in <NMS platform>\conf, <NMS platform>device, and <NMS platform>\fields are saved to <NMS platform>\saved prior to updating them with BayNetworks entries.

  These files are overwritten by files currently in use every time you perform the installation process. However these files are not removed by the uninstall process so you must restore them to their original location after an uninstall.

- Campus Command Center (CCC) may be launched or shut down independently of HPOV NNM or NetView.

  However, you should never close or use Windows Task Manager to kill Optivity Campus processes.

- Check the PATH environment variable before you start NNM or NetView for the first time after installing Optivity 7.0.1. Follow the guidelines in the *Getting Started Guide* to verify and restore, if needed, the PATH variable to its correct value.

- The Optivity Campus installation for NNM opens up the NNM console during the registration process. You may clear and close it to resume installation.

- Towards the end of the installation process, cmd windows pop up momentarily as the setup program updates the platform databases. This may take quite some time depending on the size of the current NNM or NetView database. However, if any of these processes appear to be hung for an unreasonable length of time, you may halt them and manually perform the update later.

  To manually update the platform database, execute the following commands in the order given.

Note: If the computer hangs after you issue the **ovstop** command, open the Windows NT task manager and end all processes named ov*.exe (such as *ovtrapd.exe*).

— For Tivoli TME 10 NetView

ovstop netmon

ovw_config

ovstop

ovstart ovwdb

ovstart ovtopmd

ovtopofix -a

ovstart

— For HP OpenView Network Node Manager

ovstop

ovstart ovwdb

ovw -fields

ovstart ovtopmd

ovstop netmon

ovtopofix -a

ovstart

- You should configure NetView and Network Node Manager to check for essential daemons at frequent intervals and restart them, if necessary. Failure of Netmon, which may occur because of some other associated process failed, prevents Campus Command Center and other related applications from receiving traps. Furthermore, TrapRdr32, the interface between NetView and Optivity, gets into a loop waiting for traps from the platform and takes up a very high percentage of CPU time.

Agent Software

The following operational notes pertain to issues related to agent software that are general in nature or exhibit symptoms in more than one Optivity Campus application:

- The Model 331X version 5.2 agent does not display any data in the utilization and frame size graphs in the RMON summary window. In the Report Manager, the packet, octet, and utilization graphs are displayed as 0. To solve these problems, use agent version 5.3 or later.
- All segment-level pop-up pie charts and displays for a Distributed 5000 or BayStack Ethernet Hub are either “0” or return an “Invalid Object” message on the pop-up status line.
- For the Distributed 5000, BayStack Ethernet, and BayStack 100BASE-T hubs, the Show Profile display is unable to show the Location, Name, Version, Contact, and Description MIB object information.

Specifically, when SNMP requests are performed with group #1 index (Board index and Interface Number) on Distributed 5000 and BayStack Ethernet hubs, the agent returns an “Invalid Object” message. Additionally, when SNMP requests are performed with group #8 index (Ethernet and Segment Number), the agent returns a value of zero for backplane segment numbers 1, 2, and 3. For backplane segment numbers greater than 3, the agent returns an “Invalid Object” message.

- Token ring agents do not ping the router. As a result, IP hub discovery may not discover the IP addresses of representative NMMs in your token ring subnets. If this is the case, use the Add Device feature to manually add them.
- After an agent in a device is upgraded, Optivity Campus 7.0.1 does not reflect the correct agent version until its database has been updated. To update the Optivity Campus database, in Expanded View of the device, select Configure > Validate.

Topology

The following notes pertain to topology issues:

- Optivity Campus 7.0.1 supports up to 250 manageable devices.
- Campus Command Center Autodiscovery does not work when an Accelar 1200 or Accelar 1100 routing switch is designated as the default gateway.
- The correct network topology may not be discovered if multiple bridges are connected to a network segment through a device that has Standard agent software installed. To correct this problem, install Advanced agents.
- Optivity could take up to one minute to reflect topology changes for System 3000™ devices and up to five minutes for System 5000™ devices, depending on network size.
- When a topology change trap is received from a hub containing a Model 5310 NMM and a Model 58000 switch, Optivity will continuously report topology change traps at every polling cycle. The workaround is to restart Optivity. However, if another topology change trap is received, the cycle restarts.
- For the best topology discovery, Bay Networks recommends you always use the most current agents with all of your Bay Networks devices. Note that Optivity fully supports these mixtures of older agents to ensure correct topology:

— Version 1.3x/1.4/1.5 and version 5.3x agents in any combination (works with BayStack 100BASE-T agent version 1.1)

— Version 1.2.2 and version 5.2 agents in any combination

— Version 1.0 and version 1.1 agents in any combination

— Version 1.4 agent for the switch and version 1.5 agent for the other NMMs, as required for System 5000 with the Model 58000 switch module (works with BayStack 100BASE-T agent version 1.1)

IPX Protocol

Note the following points regarding the IPX protocol:

- If you want IPX support on a Windows 95 workstation, you must install the Microsoft NetWare component when you are configuring the management station.
- If you add IPX communications stacks to the management station after installing Optivity, you must reinstall Optivity to ensure that all IPX-related files are installed.
- If you remove IPX communications stacks from the management station after installing Optivity, you must delete the IPX references from both the [Optivity] and [LNMS] sections of the *synopt.ini* file. Find the line that reads:

  ```
  Protocols = IP, IPX
  ```

  and edit it to read:

  ```
  Protocols = IP
  ```

  On HP OpenView Workgroup Node Manager platforms, you must also remove references to the IPX protocol from the *OPT\OV\OVWIN.ini* file:

  — In the [Discovery] section, find the line:

  ```
  IPXDiscoverAll=Yes
  ```

  and change it to read:

  ```
  IPXDiscoverAll=No
  ```

  — In the [OpenViewSNMP] section, find the line:

  ```
  SNMPNetIpx=yes
  ```

  and change it to read:

  ```
  SNMPNetIpx=no
  ```

Miscellaneous Problems

The following miscellaneous problems have been observed:

- On the Windows 95 platform, printing tables across the network does not work. However, locally printing tables is possible.
- The Optivity Multimedia Tutorial may not work with some video and audio drivers. If this happens, reboot the system and do the following:
  - — Run README.EXE in your WINDOWS directory.
  - — Verify that your hardware and driver configurations are supported by QuickTime for Windows. (README.EXE lists some of the video adapters and sound cards that are not supported by QuickTime for Windows.)

    If you have a video driver that is not supported, you can replace the driver with the Windows default Standard driver and run the tutorial.

Bugs Fixed

- The error “Database Synchronization, Please Wait” no longer occurs when you open or create an HP OpenView map.
- When you add a BayNetworks router manually using HP OpenView, the device no longer appears as a Switch Node™. (57290)

Application Notes

The following sections list operational notes and known problems for various Optivity Campus 7.0.1 applications. Agent-related issues are listed under the application in which the symptoms are observed. Such issues are usually listed under Operational Notes because they represent problems with the agent software, and not with the application.

Agent Manager

These notes pertain to the Agent Manager application.

Operational Notes

- The Agent Manager application needs both the MAC address and the IP address of each device to list the device in the main dialog box. Depending on how many devices you are upgrading, you can bring up Expanded View or Flat Network View or run Node Discovery to ensure that your database is fully populated.
- To show all NMM entries in Agent Manager, you must run the Optivity Node Discovery utility.
- When you upgrade an agent using Agent Manager, the boot router settings of the device must be properly configured. Otherwise, Agent Manager will not be able to upgrade the agent.
- The Revision column of the Image Upgrade dialog box displays the hardware revision letter instead of the firmware revision as stated in the documentation and online Help.

Known Problems

- Agent Manager does not support BayStack 200, BayStack 250, BayStack 350, or BayStack 450 series devices. See the documentation supplied with these devices for instructions on upgrading the agent software.
- In Agent Manager, during the upgrade procedure, entering the agent key via the Agent Key feature causes the Image Upgrades dialog box to display the key. The # agent XXXXXXXX (agent key) is written to the agent configuration file. Open the configuration file and delete the pound symbol (#) from the agent key before upgrading the agent.
- Agent Manager may not be able to recommend the correct agent image upgrade version for devices that cannot distinguish an agent maintenance release (for example, for version 5.31, 5 is the major release, 3 is the minor release, and 1 is the maintenance release). After you perform the upgrade, the Status column shows In Progress when it should display Successful. If you relaunch Agent Manager, the Image Upgrade dialog box displays agent image version 5.30 in the Version column instead of 5.31. It also displays 5.31 in the Recommendation column instead of none even though you have successfully downloaded the upgraded agent image version.

Alarm Manager

These notes pertain to the Alarm Manager application.

Operational Notes

- Online help is only available for those traps that arrive after the Alarm Manager window is opened. For all other traps, the online Help opens to a listing of the available Help topics.

Known Problems

- Alarm Manager does not properly report traps received from Bay Networks routers.

Bugs Fixed

- Alarm Manager no longer displays duplicate alarms from a BayStack 350T device that uses older versions of agents.
- In Optivity Campus 7.0.1, Alarm Manager shows details for Threshold Exceeded traps received from agents.

Campus Command Center

These notes pertain to the Campus Command Center (CCC) application.

Operational Notes

- When many device icons turn red despite being reachable via Ping, it may indicate that the community strings in the device database are incorrect. This situation can occur if you upgraded or reinstalled Optivity, or reset the Optivity database, and then opened an old .ccc file.

  If this situation occurs, choose Applications > Set Community String in Campus Command Center, and use the Set Community Strings dialog box to enter all of the read community strings used on your network. Click on Yes when the application prompts whether you want to discover community strings.

- In CCC the Applications menu contains the launch point for generic applications like Expanded View and Threshold Manager. “Air Surfer Manager” is not a generic application that can be launched on all BayNetworks devices, it can only be launched from the device sensitive menu of the NetWave wireless hub.

Bugs Fixed

- In Campus 7.0.1 stack probes are now discovered correctly. (75612)

Device Manager (For Accelar Routing Switches)

These notes pertain to the Device Manager application.

Operational Notes

- When you start Device Manager by right-clicking an Accelar device in the Campus Command Center Switches folder, the Open Device dialog box opens. You must enter the IP address of the target Accelar device in the Device Name text box in order to start the Device Manager application.
- There are no launch points for Accelar Device Manager either in Optivity Campus program group or in the HP OpenView menu bar. (81623)

Expanded View

These notes pertain to the Expanded View application.

Operational Notes

- When you run Expanded View on a BayStack 250 device, the Auto Sense display shows incorrect speed information. This is caused by a problem with the BayStack 250 version 1.0 agent software.
- When you run Expanded View on a BayStack 250 device, the Show Nodes table is empty. This is caused by a problem with the BayStack 250 version 1.0 agent software.

Known Problems

- When you run Expanded View on a Centillion C100 switch, the Bridge Groups Table (choose Config > Bridge Group) does not show any bridge groups for token ring modules.
- A problem occurs when you use Expanded View and then LANarchitect for a System 5000 device or any of the supported switching devices (Models 281XX, 28200, or 58000). When you try to view the Expanded View window for the second time, the window is blank. To make the window display correctly, choose Config > Validate.
- The BayStack 350 Autosense Switches reports LED status of the media dependent adapters incorrectly.
- When you show the profile of two different token ring NMMs in the same chassis the same data is displayed for both NMMs. This usually occurs on chassis with multiple NMMs. (56735)

Bugs Fixed

- In Optivity Campus 6.2, Expanded View no longer halts on a General Protection Fault error when the software insertion status of a BayStack 502 port is set.
- Expanded View now detects all the ports of 5307PS-HD modules when three or more 5307PS-HD modules are installed in a System 5000 chassis.
- Expanded View now correctly displays the LEDs of BayStack 350-FHD Autosense Switches.
- When you use Boot Profile in Expanded View the boot mode now changes to bootp and the EEPROM write status to WriteEeprom. (56783)
- In Expanded View, fault diagnostic values are now returned from (3502A or 3502B) host modules that were being managed by a Model 351x NMM. (57656)
- When you use Expanded View to show the profile of a feeder node, you can now change the current port speed. (56255)
- Expanded View now displays correct configuration ring attachment information for the BayStack 500-series token ring hubs.
- Expanded View no longer displays the error “invalid command line options” when a token ring port on a System 5000 hub is unwrapped.

- A General Protection Fault (GPF) on Windows 95 no longer occurs when you launch Expanded View against a Model 5310SA with agent version 1.6.0 with more than three 5307PS-HD modules. (57615)
- When you launch Expanded View on a Baystack 152, port LEDs are now correctly reported. (57784)
- When you launch Expanded View on a Model 3314SA hub, the attachment unit interface (AUI) uplink port is now shown correctly as a Fiber port. (56537)

Flat Network View

These notes pertain to the Flat Network View application.

Operational Notes

- To show a switch in Flat Network View, you must use the Describe feature to enter the IP address and device type for the switch.
- In a network with Baystack 100BASE-T or 10BASE-T hubs with basic agents, topology may not be supported. Flat Network View may use these basic agents as a representative network management module (NMM), but these agents do not support network topology. To make topology work correctly, assign another agent as the representative NMM using the Describe feature.
- If you have a problem seeing a BayStack 28115 Ethernet Switch (formerly known as the LattisSwitch™ hub), a BayStack 28200 Modular Ethernet Switch, or a BayStack Ethernet Workgroup Switch in Flat Network View, make sure its MAC and IP addresses are in the device database. Launch LANarchitect or Expanded View to ensure that your database is complete with both IP and MAC addresses for these switches.
- In a switching environment with Bay Networks switches, the color of a device symbol in Flat Network View or Segment View may not reflect current device status. To correct this problem, use the Validate feature to update the Flat Network View or Segment View display.

Known Problems

- Flat Network View cannot show interconnection information for switched networks.
- Flat Network View does not effectively support combinations of 28100-series, 28200-series, and BayStack Ethernet Workgroup switches.
- Flat Network View does not support the Model 5616 Ethernet/Fast Ethernet NMM.
- Flat Network View does not show correct topology for segments that contain BayStack 250 devices.
- Token ring bridge icons stay blue in Flat Network View.

LANarchitect

These notes pertain to the LANarchitect application.

Operational Notes

- Although you can display a BayStack Ethernet hub in LANarchitect, software switching for segments is not supported by the agent software. However, the Move button is not deactivated for BayStack Ethernet hubs. For BayStack Ethernet hubs, when you use LANarchitect to move a cluster to different segments the following message is displayed:

  ```
  Move Cluster - Fail to attach cluster
  ```

- In the Model 5580 Token Ring Router Module, only interface 4 supports LANarchitect. Interfaces 1, 2, and 3 are hardwired to ring segments 1 through 3.
- When you use LANarchitect to move ports between backplanes on Model 5605P or 5675P-FX Autosense host modules, observe the following points:
  - — Each port has both 10 mb/sec (Ethernet) and 100 mb/sec (Fast Ethernet) connections. The 10 mb/sec connection is the connection the port uses when Autosense detects that the connected device is communicating at 10 mb/sec. The 100 mb/sec connection is the connection the port uses when Autosense detects that the connected device is communicating at 100 mb/sec.

— When you drag ports between backplanes, LANarchitect always moves the port connection (either 10 mb/sec or 100 mb/sec) that matches the speed of the target backplane. The configuration of the other connection is determined by the settings of the AutoSense Setting dialog box, that opens when you select Option > Set Config Mode. These settings are as follows:

- Under the Symmetrical Number setting, the other connection is moved to the matching backplane of the same number.

  For example, dragging a port from E-Bkpl # 3 to E-Bkpl#5 moves the 10 mb/sec connection to E-Bkpl #5 and also moves the 100 mb/sec connection to FE-Bkpl #5.

- Under the Isolate setting, the other connection is isolated.

  For example, dragging a port from E-Bkpl # 3 to E-Bkpl#5 moves the 10 mb/sec connection to E-Bkpl #5 and also isolates the 100 mb/sec connection.

- Under the Ignore setting, the other connection remains unchanged.

  For example, dragging a port from E-Bkpl # 3 to E-Bkpl #5 moves the 10 mb/sec connection to E-Bkpl #5 but does not change the 100 mb/sec connection from its previous value.

Note: When you drag Autosense ports between backplanes of different types, always validate the setting from the device after each successive operation.

Known Problems

- LANarchitect cannot be used to move a Model 28200 DCM to a different port on the switch.
- LANarchitect shows the BayStack 10BASE-FL hub and either the 10BASE-T hub AUI MDA or 10BASE-FL MDA as separate components even though they are in the same cluster as other ports on the same hub.
- For Model 5616SA NMMs, LANarchitect does not properly identify DCMs, second interfaces, or PPP interfaces. This causes the application to represent these elements with the magnifying glass icon normally used for NMMs.

Bugs Fixed

- LANarchitect now shows segment attachment information for all ports on Distributed 5000 host modules when more than 6 units are stacked.
- LANarchitect now shows all of the available 5307PS-HD ports and any of the ports of other modules inserted in the chassis when three or more 5307PS-HD modules are installed.
- A General Protection Fault (GPF) on Windows 95 no longer occurs when you launch Lan Architect against a Model 5310SA with agent version 1.6.0 with more than three 5307PS-HD modules. (57615)
- You can now launch LANarchitect for a System 58000-series switch from the Applications menu of HP OpenView Workgroup Node Manager.
- LANarchitect now displays port 1 of a BayStack 500-series token ring hub as a module cluster (port 1-24), using the token ring module cluster icon.

Nodal View

These notes pertain to the Nodal View application.

Operational Notes

- In NodalView™, Distributed 5000 (version 1.3 and later) and BayStack Ethernet hub (version 1.3 and later) nodes turn blue because they do not support the statistics they are being polled for. This is true for the Model 5310SA Agent version 1.5.1, the BayStack 100BASE-T Agent version 1.1.1, the Model 331x Agent version 5.3.3, and the BayStack 50x Agent version 1.1.2.
- The Net Address (IPX) display property in NodalView is not available. Net Address always displays the IP address.

Known Problem

- In Nodal View, when you choose Properties > Net Address the IP addresses for some devices are not displayed.

  The same is true in the RMON Summary View. When you select View by Net Address (default is MAC address), some of the devices do not display their IP addresses. (56865)

- In Nodal View, to partition a user from their attached port, click on the icon representing the user (PC) attached to a port of a managed hub, right-click on the line representing the PC and select Fault > Disable. However, when you try to re-enable the port using Fault > Enable, the process fails. The workaround is to enable ports through Expanded View. (57447)

Bugs Fixed

- You can now launch NodalView against a Model 5510 NMM with a 2.0 image and not receive the error "NV-003 cannot get topology data." (73060)
- When you launch Nodal View against a Model 5616 A/SA 10/100 Ethernet NMM node statistics are now displayed. (79999)
- Unit/port information and the node network addresses are now displayed when you use Find Node to locate a node connected to a Distributed 5000 hub. (56724)

Node Security Manager

This note pertains to the Node Security Manager application.

- Node Security Manager does not work with BayStack 150 or BayStack 250 devices. This is due to problems with the BayStack 150 version 2.0 agent and the BayStack 250 version 1.0 agent.

Out-of-Band Manager

This note pertains to the Out of Band Manager application.

- If out-of-band communication times out while modems are negotiating a connection, you should add the following information to the *c:\opt\bin\async.ini* file:

```
[Modem]
WaitConnect=44
```

Report Manager

These notes pertain to the Report Manager application.

Operational Notes

- Bay Networks recommends that you routinely back up your report database by copying and saving the *c:\opt\db\dcsdb.** files.
- When you use Report Manager, you must always provide the RMON Interface Number in the "Device Details Page."
- In Report Manager, "DCM A" may not correspond with "RMON Interface 1." To determine the interface to DCM mapping, launch the RMON Summary application for the device in question. If the interface number is not available, uncheck the "Select RMON agent" box and the program defaults to collecting information from the NMM. Data collected will then be from the segment that the NMM is attached to.
- When Report Manager is abnormally terminated, the following message is displayed when the Report Manager is relaunched: "DBLayer Error, invalid db_address (code = -6)." After this error is displayed, a dialog box is displayed with a list of reports. Open each report to determine data is accessible. If not, delete that data collection from the Report Manager.

Known Problems

- Report Manager does not support BayStack 250 devices.
- Report Manager supports Model 5616 modules to the segment level; port level statistics are not supported.
- In Using Optivity Campus 7.0 manual, page 8-16, the manual indicates that in Report Manager you can choose File > Open to open a file that has been saved as a tabbed or HTML file. This menu does not exist.

Bugs Fixed

- When you use Report Manager to gather data on a BayStack 10BaseT Hub running agent version 1.50 or later, the error: "REPM-002: Failed to start the collection for <IP address> Please check collection parameter and try again." no longer displays. (57416)

- Report Manager now correctly reports utilization statistics for Fast Ethernet devices based on formulas for 10-BASET Ethernet.
- In Campus 7.0.1, you can now set up Report Manager to gather data on a BayStack 50x token ring hub running agent version 1.2.0. (59362)
- When you set up a report against a Model 5510 NNM version 1.60 or 2.0, users no longer receive the following error:

  ```
  "REPM-002: Failed to start the collection for -<ip address>.
  Please check collection parameters and try again."
  ```

Ring Manager

These notes pertain to the Ring Manager application.

Operational Notes

- The following items pertain to the TR Embedded Manager window:
  - For a Model 5505 token ring module, changing the value in the Mode column from CoreStatistics to Roving will not result in Roving appearing in the Mode column for all entries pertaining to that module.

    Instead, one of these entries continues to display a value of CoreStatistics in the Mode column. It is not possible to obtain statistics for that entry.
  - For the Model 5575X token ring module, it is not possible to obtain accurate statistics if the RingIn port is not inserted.
  - For the Model 5502 token ring module, the EmbeddedMgmt value is not accurately represented in the Capabilities column.
  - If a module has “EmbeddedMgmt” capability and the mode is set to “CoreStatistics,” only one entry should exist for that module. If more than one entry is present, wait for some period of time and then validate again to allow the multiple entries to collapse as one. In the multiple entry state, it is not possible to obtain statistics for that module.

Bugs Fixed

- The Ring Manager menu option in Campus Command Center is now enabled when you select a BayStack 50x /SA token ring agent. (56645)

RMON Applications

These notes pertain to the Optivity Campus RMON applications.

Operational Notes

- To view full RMON data for the BayStack 50x Token Ring Hub, start up the application for the two interfaces.
- To view files you saved using the RMON Summary Filter and Capture feature, use *pdecode.exe*, located in the *\opt\armon* directory.
- When you run RMON applications for a System 5000BH chassis in which more than one MCP module is installed, note that each MCP module can only gather RMON statistics for the half of the chassis in which it is installed (slots 2-8 or slots 9-13). Use the Probe Connectivity dialog box in the Campus Command Center to make sure that the IP address specified is for the MCP installed in the half of the chassis for which you want to gather RMON statistics.
- Optivity Campus RMON applications support System 5000BH modules and Centillion C50N and C50T switches only if they are running version 2.2 or later agents and the etherStatsTable has already been created. To create the etherStatsTable, see the following readme file on the Optivity Campus Software CD:

  <CD drive>:\wgn\unsupprt\readme.est
- When you use RMON Summary against a BayStack 28000 Switch running an agent version 2.0 or earlier the following error is generated:

  "(RMONSVR-019) There is no Probe Monitoring <IP Address>,Slot:x, Port: y"

  As a workaround, edit the *c:\opt\bin\rmon_opt.ini* file and find the lines below:

  :28K family; provide default support

  1.3.6.1.4.1.45.3.15.1=0

  1.3.6.1.4.1.45.3.13.5=0

  1.3.6.1.4.1.45.3.17.3=0

  Modify all values on each subnet line replacing "0" with "2". If the RMON server process is not closed at this time, wait a few minutes until it is closed before relaunching RMON Summary.

Known Problems:

- The RMON Filter and Capture application does not work with either Stack Probe or with System 5000 token ring devices.

Bug Fixed

- Threshold Manager™ now supports BayStack 28000 and BayStack 58000 Series switches when you use agent version 2.0 or later.

RouterMan

These notes pertain to the RouterMan™ application.

Operational Notes

- If your RouterMan Browse Profiles display for an Agent Identification Server shows a time out in the status bar, close RouterMan and restart the application.
- In RouterMan, some of the XNS Host Table and Filter Table displays may always show “Get” in the status bar.
- The Administration Status field for Bay Networks routers 7.55 and above displays the number 1, 2, or 3, with the following meanings: 1=up, 2= down, and 3=testing.
- RouterMan generates an Unknown Protocol message in the fault log if the router receives a BOFL packet.

Known Problems:

- When RouterMan shows the administration status as up and the operational status as down, the fault symbol, performance symbol, and Fault Log do not show or report a fault.
- On a Novell file server with routing capability turned on, the SysName, SysLocation, and Contact Person fields cannot be set to NULL using RouterMan.
- In the RouterMan Fault Log, no entry is available in the “Cause” field for Bay Networks routers.
- For Bay Networks routers running the VINES protocol, the Configuration Routing Table displays identical values in each table entry.

Bugs Fixed

- The IF-Performance Statistics window and the IF-Performance History window now displays the circuit name, instead of “Index:0”. (57247)
- When you save data that spans more than one full day, the RouterMan history graph now correctly reports the date and time. (57430)

Segment View

These notes pertain to the Segment View application.

Operational Notes

- For some video display drivers, Segment View icons are not displayed properly. If this happens, Bay Networks recommends that you set your video display driver to 256 colors.
- Segment View does not support Model 5616 modules.

Switch Monitor

These notes pertain to the Switch Monitor application.

Operational Notes

- The Switch Monitor calculates switch port utilization on both received and transmitted traffic. For unconnected switch ports, the utilization is nonzero because of switch maintenance traffic. For BayStack 28115 Ethernet Switches, the utilization is based on received traffic only.
- The following requirements must be met before the Load Balance Manager can properly analyze the traffic patterns among switched segments and provide Load Balance recommendations:
  - RMON agents are required for each switch segment because the Load Balance Manager uses the RMON source-destination and destination-source matrix to analyze traffic.
  - You must use the Describe feature to enter RMON into the database.

- When you run Switch Monitor for BayStack 28000- or 58000-series switches running in STP Mode, the Domain View and Community View are available even though these views are only valid when the switch is running in LattisSpan™ mode. In STP mode, Domain and Community views display invalid information.
- When you add rows to the Utilization Graph or the Error Graph for the BayStack Stackable Hub the row is shown as “Sx-Py” where “x” is the unit number and “y” is the port number.

Known Problems

- The Switch Monitor application does not support the Ethernet Workgroup Switch or the Baystack 301 Desktop Ethernet Switch.
- The Switch Monitor does not support versions 1.1X and 1.2X of the BayStack 28115 Ethernet Switch agent software. Versions 1.3X, 1.4X, and all future releases are supported.
- Switch Monitor does not display agent information for a BayStack 28000 agent versions 2.1.0.x or 2.1.1.x. (78606)

Threshold Manager

These notes pertain to the Threshold Manager application.

Operational Notes

- Threshold Manager supports System 5000BH modules and Centillion C110 and C50 switches only if they are running version 2.2 or later. These agents do not populate the “etherStatsTable”, “tokenRingMLStatsTable”, and “tokenRingPStatsTable” tables automatically. To populate the table, see the following readme file on the Optivity Campus Software CD:

  <CD drive>:\wgn\unsupprt\readme.est
- The Centillion agent version 3.1 and above have “tokenRingPStatsTable” support.
- The Threshold Manager menu item is enabled only for certain devices. It is not available for all devices.
- On the BayStack 28000 and 58000 Switches the Threshold Manager only supports agent version 2.1 and later.

Known Problems

- When you run Threshold Manager for a Model 3410 NMM, the Event Log tool bar is always deactivated.
- Threshold Manager cannot set thresholds on virtual ports of Centillion devices.
- Threshold Manager cannot set the following thresholds on Interfaces of Model 5616SA and Model 5310 NMMs and BayStack 200 and BayStack 10BASE-T hubs:
  - FCS Errors
  - Collisions
  - Late Collisions
  - Short Events
  - Rate Mismatches
  - Back-off Failures
  - Auto-partitions
  - Short IPGs
  - Null Frames
- When you set thresholds on a BayStack 200, the Target list contains the following backplane entries:
  - Unit <*unit number*> Backplane 1
  - Unit <*unit number*> Slot <*slot number*> Backplane 1

  Only the entry for Unit <*unit number*> Slot <*slot number*> Backplane 1 is valid; thresholds set for the other entry will not work.
- When you set thresholds for a BayStack 350 with version 2.0 agent, you must set both rising and falling thresholds.
- The following error messages from Threshold manager are not documented.

  ```
  Apply to device operation failed on x entries. (THD-045)
  Please select an available board for the filter! (THD-046)
  Please select an available interface for the filter! (THD-047)
  Please select an available cluster for the filter! (THD-048)
  Please select an available port for the filter! (THD-049)
  ```

```
Please select an available backplane for the filter! (THD-050)
```

Agent Support

Table 3 shows Threshold Manager capability in relation to the agent software version of various devices.

Table 3. Threshold Manager Capabilities by Agent

Agent Name	Versions	Media, Device, and Capability	MIB-II (Rising and Falling)	Custom Actions
A331xSA	1.0, 1.2, 1.3	Ethernet—System 3000-RMON	X	
A331xSA-B	1.0, 1.2	Ethernet—System 3000-RMON	X	
A281xSA	1.0, 1.2, 1.3	Ethernet—System 2000-RMON	X	
A271xSA	1.0, 1.2	Token ring—System 2000-RMON	X	
A351xSA	1.0, 1.2, 1.3	Token ring—System 3000-RMON	X	
A331x, A331x-B	4.0, 4.1, 4.2	Ethernet—System 3000-Proprietary		
B331x, B331x-B	4.2, 5.1	Ethernet—System 3000-Proprietary		
A331x, A331x-B	5.1, 5.2, 5.3	Ethernet—System 3000-RMON	X	
B331x, B331x-B	5.1, 5.2, 5.3	Ethernet—System 3000-RMON	X	
A331xA, A331xA-B	4.2	Ethernet—System 3000-Proprietary		
A331xA, A331xA-B	5.1, 5.2, 5.3	Ethernet—System 3000-RMON	X	
B331xA, B331xA-B	5.1, 5.2, 5.3	Ethernet—System 3000-RMON	X	
A331xS, A331xS-B	4.1, 4.2	Ethernet—System 3000-Proprietary		
A331xS, A331xS-B	5.1, 5.2, 5.3	Ethernet—System 3000-RMON	X	
A281x	4.2	Ethernet—System 2000-Proprietary		
A281x, B281x	5.1, 5.3	Ethernet—System 2000-RMON	X	
A271x	4.0, 4.1, 4.2, 4.3, 4.4, 5.0	Token ring—System 2000-Proprietary		
A351x	4.0, 4.1, 4.2, 4.3, 4.4, 5.0	Token ring—System 3000-Proprietary		
A2810	4.0	Ethernet—System 2000-Proprietary		
531x	1.1, 1.2, 1.3, 1.4, 1.5	Ethernet—System 5000-RMON		X
551x	1.1, 1.2, 1.3	Token ring—System 5000-RMON		X
5510A	1.2, 1.3, 1.4, 1.5, 1.6, 2.0	Token ring—System 5000-RMON		X

Table 3. Threshold Manager Capabilities by Agent (continued)

Agent Name	Versions	Media, Device, and Capability	MIB-II (Rising and Falling)	Custom Actions
561x	1.0	Ethernet—System 5000-RMON		X
341x	1.1	Ethernet—System 5000-RMON		X
Centillion C100	2.2, 3.0, 3.1	Ethernet or token ring—Centillion-RMON		
Centillion C50	2.2, 3.0, 3.1	Ethernet or token ring—Centillion-RMON		
System 5000BH	2.2, 3.0, 3.1	Ethernet or token ring—Centillion-RMON		
BayStack 10x	1.3, 1.4, 1.5, 2.0	Ethernet—System 5000-RMON		except 1.3
BayStack 150	1.0, 2.0	Ethernet—System 5000-RMON		only 2.0
BayStack 200	1.0, 3.1	Ethernet—System 5000-RMON		
BayStack 201	1.1, 3.1	Ethernet—System 5000-RMON		X
BayStack 250	1.0, 3.1	Ethernet—System 5000-RMON		X
BayStack 303	2.0, 2.1	Ethernet—Workgroup-RMON		
BayStack 304	2.0, 2.1	Ethernet—Workgroup-RMON		
BayStack 350	2.2	Ethernet—Workgroup-RMON		
BayStack 50x	1.0, 1.1, 1.2	Token ring—System 5000-RMON		
BayStack 450	1.1	Ethernet-Workgroup-RMON		
BayStack 350 12T, 24T	1.0	Ethernet- Workgroup-RMON		
BayStack 28115	2.1	Ethernet-Workgroup-RMON		
BayStack 58000	2.1	Ethernet-Workgroup-RMON		

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- The “Guides/Books” section lists books on technical topics.
- The “Technical Manuals” section lists available printed documentation sets.

Make a note of the part numbers and prices of the items that you want to order. Use the “Marketing Collateral Catalog description” link to place an order and to print the order form.

How to Get Help

For product assistance, support contracts, or information about educational services, go to the following URL:

http://www.baynetworks.com/corporate/contacts/