

HP BladeSystem Integrated Management Guide



Manufacturing Part Number: 381270-002
April 2005, Edition 2

©Copyright 2004-2005 Hewlett-Packard

Table of Contents

Overview	4
What's New in HP BladeSystem Integrated Management Environment 1.1	4
Related Procedures	4
Related Topics	4
Data Pane Overview	4
Related Topics	5
Tree View	5
Related Topic	6
p-Class Blade	6
Related Procedures	7
Related Topics	7
p-Class Blade Information Tab	7
System Status	7
System Information	9
Folder Membership	10
Related Procedures	10
Related Topics	10
p-Class Blade Performance Tab	10
Network Status	10
Related Procedures	10
Related Topics	10
p-Class Blade Deployment Tab	11
Related Procedures	11
Related Topics	11
p-Class Blade iLO Tab	11
Related Procedures	11
Related Topics	11
p-Class Enclosure	11
Related Topics	12
p-Class Power Enclosure	12
Related Topics	13
p-Class Interconnect Switch	13
Related Procedures	13
Related Topics	13
p-Class Interconnect Switch Information Tab	13
System Information	14
System Status	14
Network Status	14
Folder Membership	14
Related Procedure	14
Related Topics	14
p-Class Interconnect Switch Deployment Tab	15
Related Procedure	15
Related Topics	15
p-Class Rack	15
Related Topics	15
e-Class Blade	15
Related Procedures	16
Related Topics	16
e-Class Blade Information Tab	16
System Status	16

System Information	18
Folder Membership	18
Related Procedures	18
Related Topics	19
e-Class Blade Performance Tab	19
Network Status	19
Related Procedures	19
Related Topics	19
e-Class Blade Deployment Tab	19
Related Procedures	20
Related Topics	20
e-Class Blade iA Tab	20
Related Procedures	20
Related Topics	20
e-Class Enclosure	21
Related Topics	21
Folder Management	21
Related Procedures	22
Related Topics	22
Removing Members from Folder	22
Related Procedures	22
Related Topic	22
Renaming a Folder	22
Related Procedures	23
Related Topic	23
Deleting a Folder	23
Related Procedures	23
Related Topic	23
Saving to a Folder	24
Related Topics	24
Glossary	25
Index	28

Overview

The HP BladeSystem Integrated Management Environment in HP Systems Insight Manager provides a consolidated view to manage all of your HP blade components. This includes HP blades, switches, enclosures, and racks. To access the **HP BladeSystem integrated management** page, select **Tools->Integrated Consoles->HP BladeSystem** from the menu bar in HP Systems Insight Manager. The **HP BladeSystem** page is displayed and is divided into two sections: the tree view navigational section and the data pane section.

The tree view section displays the date and time of the last update and displays a listing of all blade components. Refer to "Tree View" for more information.

The data pane displays relevant information depending upon what components are selected in the tree view. Refer to "Data Pane Overview" for more information.

What's New in HP BladeSystem Integrated Management Environmentt 1.1

HP BladeSystem Integrated Management Environmentt 1.1 adds support for the most recently available HP BladeSystem components (Opteron server blades and the Cisco Gigabit Ethernet Switch Module for HP BladeSystem p-Class), adds support for the HP bc1000 blade PC and its infrastructure, and provides some additional feature enhancements.

Related Procedures

- p-Class Blade
- e-Class Blade
- p-Class Enclosure
- e-Class Enclosure
- p-Class Power Enclosure
- p-Class Interconnect Switch
- p-Class Rack
- Folder Management

Related Topics

- Data Pane Overview

Data Pane Overview

The data pane displays relevant information, depending upon what components are selected in the tree view. If multiple components are selected (using the checkboxes), the data pane displays information for all the selected components. Multiple components are selected by clicking the checkbox next to a component in the tree view that contains other components. For example, if you click the checkbox next to a rack in the tree view, the enclosures, blades, and other components contained within that rack are also selected.

In the multiple component view, there are five tabs that provide listing information pertaining to the components. The tabs include a number in parentheses. This number indicates the number of that particular type of component that is selected in the tree view. These tabs include:

- **Folders.** Lists the folders selected in the tree view
- **Racks.** Lists the racks selected in the tree view
- **Enclosures.** Lists the blade enclosure and power enclosure names and product information for each enclosure selected in the tree view
- **Switches.** List the switches name and product information for each switch selected in the tree view
- **Blades.** Lists the blade servers, product name, software version, and memory size of the selected system

Also included in the data pane when multiple components are selected, is the **Tools** section. Depending on the tab selected, the tools vary. Some of the tools available for blades are Initial ProLiant Support Pack Install, Replicate Agent Settings, and Manage License Keys. Refer to the *HP Systems Insight Manager Guide* for more information on the available links.

Note:



To sort the tab information in the data pane area in ascending or descending order, click the appropriate column heading. The column heading that includes the arrow is the column for which the list is sorted. If the arrow is pointing up, the list is sorted in ascending order. If the arrow is pointing down, the list is sorted in descending order.

If a single component is selected, the data pane displays information pertaining to that particular component.

Related Topics



- Overview
- p-Class Blade
- p-Class Enclosure
- p-Class Rack
- p-Class Power Enclosure
- p-Class Interconnect Switch
- e-Class Blade
- e-Class Enclosure

Tree View



The tree view has two available views; the **Physical View** and the **Logical View**. The Physical View provides an automatically populated representation of the actual physical hierarchy of blade components (blades and switches in enclosures in racks), and is a good place to create and utilize folders representing departments or physical locations. You can then populate those folders with one or more blade racks. The **Logical View** is provided so that you can manage blade components

based on convenient groupings, such as application service, application tier, operating system image, location, and so on, and is a good place to put folders representing other types of groupings like ownership or allocation.







As you select components in the tree view area, the data pane displays data specific to the selected components.

In the tree view area, click expand all menu items  to expand all of the menu lists, or click collapse all menu items  to collapse the menu lists.

Expanding or Collapsing an Entry

- Click  to the left of an entry to expand the subtree below that entry.
- Click  to the left of an expanded entry to collapse the sub-tree.

Each component displayed in the tree view has a component icon associated with it:

-  This is the component icon for folders
-  This is the component icon for racks
-  This is the component icon for enclosures
-  This is the component icon for server blade
-  This is the component icon for interconnect switches
-  This is the component icon for blade PC nodes

The **Updated** link refreshes the tree and data pane views. Any selections that you have made in the tree are lost. Next to this link is the date and time of the last update.

The tree view displays hardware status icons. The status icon is the status of the most critical child component. For example, if an enclosure has five blade servers, and the worst blade is at a Critical status, the status of the enclosure becomes Critical. If the component has no child components, then the status icon is the status of that individual component.

Related Topic

- [Data Pane Overview](#)

p-Class Blade

To access blade server information, select **Tools>Integrated Consoles>HP BladeSystem** and then select a blade server from the tree view. The information available through the data pane is categorized into five tabs:

- Information
- Performance

- Deployment
- iLO
- Events

This tab displays all events for the component selected. This tab displays the state of the event (Cleared or Not Cleared), the severity of the event (Critical, Major, Minor, Normal, Information, or Unknown), the event type, the system name, the time of the event, who the event is assigned to, and comments entered for the event. If you select events, you can clear the events, delete the events, assign the events to a user, enter comments for the event or print the event. Refer to the HP Systems Insight Manager online help for information on the **Events** tab.

Related Procedures

- p-Class Blade Information Tab
- p-Class Blade Performance Tab
- p-Class Blade Deployment Tab
- p-Class Blade iLO Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

p-Class Blade Information Tab

To access the **Information** tab for a blade, select **Tools->Integrated Consoles->HP BladeSystem**. Select a blade in the left pane tree, and then click **Information**.

This tab provides information divided into three categories: **System Status**, **System Information**, and **Folder Membership**. The **System Status**, and **System Information** fields are read-only.

Note:





The following information is obtained periodically and might not be up to date. In HP Systems Insight Manager, Discovery runs once per day by default. To change the schedule or to have Discovery run more frequently, select **Options->Discovery->Automatic Discovery**. The **Automatic Discovery - General Settings** page is displayed. Change the frequency in the **Schedule** section and click **Save and Run**. For more information, refer to the *HP Systems Insight Manager online help* in the *Configuring Automatic Discovery* section.


System Status

- **Hardware Status.** This is the overall status for a system. It is obtained from SNMP, DMI Status Polling Tasks, or both.


In HP Systems Insight Manager, a system has one of the following status types:


 **Critical.** HP Systems Insight Manager can no longer communicate with the system. The system was previously discovered but cannot be pinged. The system might be down, powered off, or no longer accessible on the network because of network problems.

 **Major.** A major problem exists with this system, it should be addressed immediately. For systems running HP Insight Management Agents, some component has failed. The system might no longer be properly functioning, and data loss can occur.

 **Minor.** A minor problem exists with this system. For systems running Insight Management Agents, some component has failed but the system is still functioning.


 **Normal.** The system is operating normally. The system is accessible.


 **Disabled.** The system is suspended. This enables a system to be excluded from status polling, identification, data collection, and automatic event handling. On the **Automatic Discovery - General Settings** page, if you select the option **Automatically discover a server blade when its iLO is identified**, new servers discovered through Integrated Lights Out (iLO) (for example, no operating system or IP address known) are shown as disabled, until the system is discovered with an IP address or operating system.

 **Unknown.** HP Systems Insight Manager is not able to obtain management information about the system using SNMP or DMI. Although no management instrumentation information is available, the system can be pinged. It might have an invalid community string or security setting.


No Status. The system has not been polled by one or more of the polling tasks since the system was discovered.


- **Software Status.** The software status icon indicates both the availability of software updates and how critical they are.


 **Critical.** HP Systems Insight Manager can no longer communicate with the system. The system was previously discovered but cannot be pinged. The system might be down, powered off, or no longer accessible on the network because of network problems.

 **Major.** An update that contains a critical bug fix is available for this system.

 **Minor.** An update that contains new hardware support or bug fixes is available for this system.

 **Normal.** All components on the system match the repository.

 **Disabled.** The system is suspended. Therefore, no software status is available.


 **Unknown.** The Central Management Server (CMS) could not reach the HP Version Control Agent on the system, so the status of the system is unknown.

Note:

The Unknown status is displayed for server systems only and under any of the following circumstances:



- The Version Control Agent is not installed on the managed server.
- The Version Control Agent is installed on a server, but that server does not have a trust relationship established with HP Systems Insight Manager.
- The operating system on the target server is not supported. Only Windows operating systems are supported.
- The correct version of the agent is not on the target system.
- The target server type brand is not supported (only HP or Compaq brand servers are supported).
- The target system is not licensed for monitoring by the PMP. The target system must have the Insight Management Agents 6.20 or later installed.
- ProLiant Essentials Performance Management Pack (PMP) reports an indeterminate status for the system.

 **Informational.** HP Systems Insight Manager has detected that a particular agent or software is not installed or is out of date on the system. If you click the icon, a window is displayed, giving you information on how to resolve the issue.

System Information

The following information is obtained through the HP Systems Insight Manager Discovery process and Data Collection and can be edited by selecting **Tools->System Information->System Page** and selecting the target system. Select the **Links** tab and click **Edit System Properties**.

- **System name.** This is the name of the blade
- **Model.** This is the model of the blade
- **Serial number.** This is the serial number of the blade
- **Location.** This is the physical location of the blade
- **Contact.** This is the name of the administrator to contact for the blade
- **Software description.** This is the operating system currently running on the blade
- **Enclosure bay.** This is the enclosure location in the rack

Folder Membership

Click **Add to folder** to add the component to a new or existing folder under **Logical View**, which is displayed in the tree view area directly under the **Physical View**. Refer to "Saving to a Folder" for more information.

Related Procedures

- p-Class Blade Performance Tab
- p-Class Blade Deployment Tab
- p-Class Blade iLO Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

p-Class Blade Performance Tab

To access the **Performance** tab for a blade, select **Tools->Integrated Consoles->HP BladeSystem**. Select a blade in the tree view, and then click **Performance**.

This tab includes a table that displays **Performance Data** for the blade, including:

- **CPU**. This is the type of CPU
- **CPU utilization**. This is the percentage of CPU utilization
- **Disk Usage**. This is the amount of disk space being used out of the total disk space available
- **Memory**. This is the available memory
- **Average Memory Utilization**. This displays the percentage of memory being utilized

Network Status

This section displays:

- **IP addresses.** IP addresses of the blade
- **DNS name.** Full DNS name of the blade

Related Procedures

- p-Class Blade Information Tab
- p-Class Blade Deployment Tab
- p-Class Blade iLO Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

p-Class Blade Deployment Tab

To access the **Deployment** tab for a blade, select **Tools->Integrated Consoles->HP BladeSystem**. Select a blade in the tree view, and then click **Deployment**.

This tab displays the **Firmware revision** for the blade and the available deployment tasks. These tasks can include the following: Install Software and Firmware, Collect License Keys, Replicate Agent Settings, and Initial ProLiant Support Pack Install. Refer to the *HP Systems Insight Manager online Help* for more information on each of these tasks.

Related Procedures

- p-Class Blade Information Tab
- p-Class Blade Performance Tab
- p-Class Blade iLO Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

p-Class Blade iLO Tab

To access the **iLO** (Integrated Lights-Out remote management processor) tab for a blade, select **Tools->Integrated Consoles->HP BladeSystem**. Select a blade in the left pane tree, and then click **iLO**.

This tab includes iLO information:

- **IP addresses.** The IP addresses for the iLO
- **DNS name.** The full DNS name of the iLO
- **Firmware revision.** The firmware revision for the iLO

Related Procedures

- p-Class Blade Information Tab
- p-Class Blade Performance Tab
- p-Class Blade Deployment Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

p-Class Enclosure

To access the **Blade Enclosure** data pane, select **Tools->Integrated Consoles->HP BladeSystem** and select an enclosure in the tree view. The enclosure data pane is displayed.

The data pane includes **Enclosure Information**, **Picture View of Blade Enclosure**, and **Folder Membership**.

- **Enclosure Information.** This section includes:
 - **Enclosure name.** This is the enclosure name
 - **Serial number.** This is the serial number of the enclosure
 - **Firmware revision.** This is the firmware revision of the enclosure, if available
- **Picture View of Blade Enclosure.** Displays the blade servers or desktops and interconnect switches located within the enclosure. Also displayed is the system status of each component displayed. You can hover your cursor over a system and the system name, slot, and enclosure name are displayed. Click a blade or switch in the view, and the data pane updates to display information specific to that component.
- **Folder Membership.** Click **Add to folder** to add the component to a new or existing folder under **Logical View**, which is displayed in the tree view area directly under the **Physical View**. Refer to "Saving to a Folder" for more information.

Related Topics

- Overview
- Data Pane Overview
- Tree View

p-Class Power Enclosure

To access the **Power Enclosure** data pane, select **Tools->Integrated Consoles->HP BladeSystem** and select a power enclosure in the tree view. The **Power Enclosure** data pane is displayed.

The data pane includes **General Power Enclosure Information**, **Picture View of Power Enclosure**, **Power Supply Details**, and **Folder Membership**.

- **General Power Enclosure Information.** This section includes:
 - **Enclosure name.** This is the power enclosure name
 - **Serial Number.** This is the serial number of the power enclosure
 - **Firmware Revision.** This is the firmware revision of the power enclosure, if available
- **Power Supply Table.** This section includes a row for each power supply.
 - Bay
 - Serial Number
 - Firmware Revision
 - Max Output (in Watts)
 - Entry Air Flow Temp
 - Exit Air Flow Temp

- **Picture View of Power Enclosure.** Displays the power supply enclosure.
- **Folder Membership.** Click the **Add to folder** link to add the system to a new or existing folder. Refer to "Saving to a Folder" for more information on this section.

Related Topics

- Overview
- Data Pane Overview
- Tree View

p-Class Interconnect Switch

To access p-Class interconnect switch information, select **Tools->Integrated Consoles->HP BladeSystem** and then select a switch from the tree view. The information shown in the data pane is grouped into the three tabs.

- Information
- Deployment
- Events

Refer to the HP Systems Insight Manager online help for information on the **Events** tab.

Note:



HP BladeSystem Integrated Management environment in HP Systems Insight Manager supports both Cisco CGESM switches and HP p-Class interconnect switches.

Related Procedures

- p-Class Interconnect Switch Information Tab
- p-Class Interconnect Switch Deployment Tab
- Saving to a Folder

Related Topics

- Overview
- Data Pane Overview
- Tree View

p-Class Interconnect Switch Information Tab

To access the **Information** tab for a blade, select **Tools->Integrated Consoles->HP BladeSystem**. Select an interconnect switch in the tree view, and then click **Information**.

This tab provides information divided into four categories: **System Information**, **System Status**, **Network Status** and **Folder Membership**. The **System Information**, **System Status**, **Network Status** fields are read-only. Click **Add to folder** to add the switch to a new or existing folder.

System Information

- **System name.** This is the name of the switch
- **Model.** This is the model of the switch
- **Serial number.** This is the serial number of the switch
- **Location.** This is the physical location of the switch
- **Contact.** This is the name of person to contact for the switch system
- **Software description.** This is the operating system currently running on the switch

System Status

- **Hardware Status.** This is the most critical status of the switch that is obtained from HP Insight Management Agents, SNMP, and pinging. The hardware status types are Critical, Major, Minor, Normal, Disabled, and Unknown. For more information on each of these types, refer to the *HP Systems Insight Manager Online Help*.
- **Software Status.** The software status icon indicates both the availability of software updates and how critical they are. The software status types are Critical, Major, Minor, Normal, Disabled, Unknown, and Informational. For more information on each of these types, refer to the *HP Systems Insight Manager Online Help*.

Network Status

This section displays:

- **IP addresses.** IP address of the switch
- **DNS name.** Full DNS name of the switch

Folder Membership

Click the **Add to folder** link to add the system to a new or existing folder. Refer to "Saving to a Folder" for more information on this section.

Related Procedure

- p-Class Interconnect Switch Deployment Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

p-Class Interconnect Switch Deployment Tab

To access the **Deployment** tab for a switch, select **Tools->Integrated Consoles->HP BladeSystem**. Select a switch in the tree view, and then click **Deployment**.

This tab displays the **Firmware revision** for the switch and the deployment tasks available. These tasks can include the following tasks: Browse to Switch Web Page, Update Firmware, Replicate Switch Configuration, and Reset Switch. Refer to the *HP Systems Insight Manager online Help* for more information on each of these tasks.

Related Procedure

- p-Class Interconnect Switch Information Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

p-Class Rack

To access the **Blade Rack** data pane, select **Tools->Integrated Consoles->HP BladeSystem** and select an rack in the tree view. The blade rack data pane is displayed.

The data pane includes **Rack Information** and picture view of the blade rack, along with a hyperlink to **Add to folder**. Refer to "Saving to a Folder" for more information on adding a rack to a collection.

- **Rack name.** This is the name of the rack
- **Serial Number.** This is the serial number of the rack
- **Picture View of Rack.** Displays the blade servers or desktops, interconnect switches, and power supply enclosures located within the rack. Also displayed is the system status of each system displayed. You can hover your cursor over a system and the system name, slot, and enclosure name are displayed.

Related Topics

- Overview
- Data Pane Overview
- Tree View
- Saving to a Folder

e-Class Blade

To access blade server information, select **Tools->Integrated Consoles->HP BladeSystem** and then select a blade server from the tree view. The information available through the data pane is categorized into five tabs:

- Information

- Performance
- Deployment
- iA (Integrated Administrator)
- Events

This tab displays all events for the component selected. This tab displays the state of the event (Cleared or Not Cleared), the severity of the event (Critical, Major, Minor, Normal, Information, or Unknown), the event type, the system name, the time of the event, who the event is assigned to, and comments entered for the event. If you select events, you can clear the events, delete the events, assign the events to a user, enter comments for the event or print the event. Refer to the HP Systems Insight Manager online help for information on the **Events** tab.

Related Procedures

- e-Class Blade Information Tab
- e-Class Blade Performance Tab
- e-Class Blade Deployment Tab
- e-Class Blade iA Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

e-Class Blade Information Tab


To access the **Information** tab for a blade, select **Tools->Integrated Consoles->HP BladeSystem**. Select a blade in the left pane tree, and then click **Information**.

This tab provides information divided into three categories: **System Status**, **System Information**, and **Folder Membership**. The **System Status**, and **System Information** fields are read-only.

System Status

- **Hardware Status**. This is the overall status for a system. It is obtained from SNMP, DMI Status Polling Tasks, or both.

In HP Systems Insight Manager, a system has one of the following status types:

 **Critical**. HP Systems Insight Manager can no longer communicate with the system. The system was previously discovered but cannot be pinged. The system might be down, powered off, or no longer accessible on the network because of network problems.



Major. A major problem exists with this system, it should be addressed immediately. For systems running HP Insight Management Agents, some component has failed. The system might no longer be properly functioning, and data loss can occur.



Minor. A minor problem exists with this system. For systems running Insight Management Agents, some component has failed but the system is still functioning.



Normal. The system is operating normally. The system is accessible.



Disabled. The system is suspended. This enables a system to be excluded from status polling, identification, data collection, and automatic event handling. On the **Automatic Discovery - General Settings** page, if you select the option **Automatically discover a server blade when its iLO is identified**, new servers discovered through Integrated Lights Out (iLO) (for example, no operating system or IP address known) are shown as disabled, until the system is discovered with an IP address or operating system.



Unknown. HP Systems Insight Manager is not able to obtain management information about the system using SNMP or DMI. Although no management instrumentation information is available, the system can be pinged. It might have an invalid community string or security setting.

No Status. The system has not been polled by one or more of the polling tasks since the system was discovered.

- **Software Status.** The software status icon indicates both the availability of software updates and how critical they are.



Critical. HP Systems Insight Manager can no longer communicate with the system. The system was previously discovered but cannot be pinged. The system might be down, powered off, or no longer accessible on the network because of network problems.



Major. An update that contains a critical bug fix is available for this system.



Minor. An update that contains new hardware support or bug fixes is available for this system.



Normal. All components on the system match the repository.



Disabled. The system is suspended. Therefore, no software status is available.



Unknown. The Central Management Server (CMS) could not reach the HP Version Control Agent on the system, so the status of the system is unknown.


Note:



The Unknown status is displayed for server systems only and under any of the following circumstances:

- The Version Control Agent is not installed on the managed server.
- The Version Control Agent is installed on a server, but that server does not have a trust relationship established with HP Systems Insight Manager.

- The operating system on the target server is not supported. Only Windows operating systems are supported.
- The correct version of the agent is not on the target system.
- The target server type brand is not supported (only HP or Compaq brand servers are supported).
- The target system is not licensed for monitoring by the PMP. The target system must have the Insight Management Agents 6.20 or later installed.
- ProLiant Essentials Performance Management Pack (PMP) reports an indeterminate status for the system.

 **Informational.** HP Systems Insight Manager has detected that a particular agent or software is not installed or is out of date on the system. If you click the icon, a window is displayed, giving you information on how to resolve the issue.

System Information

The following information is obtained through the HP Systems Insight Manager Discovery process and Data Collection and can be edited by selecting **Tools->System Information->System Page** and selecting the target system. Select the **Links** tab and click **Edit System Properties**.

- **System name.** This is the name of the blade
- **Model.** This is the model of the blade
- **Serial number.** This is the serial number of the blade
- **Location.** This is the physical location of the blade
- **Contact.** This is the name of the administrator to contact for the blade
- **Software description.** This is the operating system currently running on the blade
- **Enclosure bay.** This is the enclosure location in the rack

Folder Membership

Click **Add to folder** to add the component to a new or existing folder under **Logical View**, which is displayed in the tree view area directly under the **Physical View**. Refer to "Saving to a Folder" for more information.

Related Procedures

- e-Class Blade Performance Tab
- e-Class Blade Deployment Tab
- e-Class Blade iA Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

e-Class Blade Performance Tab

To access the **Performance** tab for a blade, select **Tools->Integrated Consoles->HP BladeSystem**. Select a blade in the tree view, and then click **Performance**.

Note:



This tab is not displayed for bc1000 blades.

This tab displays **Performance Data** for the blade, including:

- **CPU**. This is the type of CPU
- **CPU utilization**. This is the percentage of CPU utilization
- **Disk Usage**. This is the amount of disk space being used out of the total disk space available
- **Memory**. This is the available memory

Network Status

This section displays:

- **IP addresses**. IP addresses of the blade
- **DNS name**. Full DNS name of the blade

Related Procedures

- e-Class Blade Information Tab
- e-Class Blade Deployment Tab
- e-Class Blade iA Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

e-Class Blade Deployment Tab

To access the **Deployment** tab for a blade, select **Tools->Integrated Consoles->HP BladeSystem**. Select a blade in the tree view, and then click **Deployment**.

This tab displays the **Firmware revision** for the blade and the available deployment tasks. These tasks can include the following: Install Software and Firmware, Collect License Keys, Replicate Agent Settings, and Initial ProLiant Support Pack Install. Refer to the *HP Systems Insight Manager online Help* for more information on each of these tasks.

Note:



There are two type of e-Class blades supported by HP BladeSystem Integrated Management. They are BL10e blades and bc1000 blades. The **Deployment** tab exists for the BL10e blades. However, for bc1000 blades, the **Deployment** tab does not exist unless there is an RDP connector installed on the central management server (CMS).

Related Procedures

- e-Class Blade Information Tab
- e-Class Blade Performance Tab
- e-Class Blade iA Tab

Related Topics

- Overview
- Data Pane Overview
- Tree View

e-Class Blade iA Tab

To access the **iA** (Integrated Administrator) tab for a blade, select **Tools->Integrated Consoles->HP BladeSystem**. Select a blade in the left pane tree, and then click **iA**.

This tab includes iA information:

- **iA Information.** A link pointing to the Integrated Administrator (iA) of the enclosure where you can manage all available systems in the enclosure
- **IP addresses.** The IP addresses for the iA
- **DNS name.** The full DNS name of the iA
- **Firmware revision.** The firmware revision for the iA

Related Procedures

- e-Class Blade Information Tab
- e-Class Blade Performance Tab
- e-Class Blade Deployment Tab

Related Topics

- Overview
- Data Pane Overview

- Tree View

e-Class Enclosure

To access the **Blade Enclosure** data pane, select **Tools>Integrated Consoles>HP BladeSystem** and select an enclosure in the tree view. The enclosure data pane is displayed.

The data pane includes **Enclosure Information**, **Picture View of Blade Enclosure**, and **Folder Membership**.

- **Enclosure Information.** This section includes:
 - **Enclosure name.** This is the enclosure name
 - **Serial number.** This is the serial number of the enclosure
 - **Firmware revision.** This is the firmware revision of the enclosure, if available
- **Picture View of Blade Enclosure.** Displays the blade servers or desktops and interconnect switches located within the enclosure. Also displayed is the system status of each component displayed. You can hover your cursor over a system and the system name, slot, and enclosure name are displayed. Click a blade or switch in the view, and the data pane updates to display information specific to that component.
- **Folder Membership.** Click **Add to folder** to add the component to a new or existing folder under **Logical View**, which is displayed in the tree view area directly under the **Physical View**. Refer to "Saving to a Folder" for more information.

Related Topics

- Overview
- Data Pane Overview
- Tree View

Folder Management

HP BladeSystem Integrated Management environment in HP Systems Insight Manager has two views, the **Physical View** and the **Logical View**. Both of these views contain folders. Folders contain components and can also contain other folders. You can add folders to other folders, remove members, rename folders, and delete folders in each view. If you click on **Physical View**, **Logical View**, or a folder under the **Logical View** in the tree view, the following sections are displayed in the data pane window:

- **Members.** Contains a scrollable table containing the members including **Member Name** and **Model Name** columns. To sort the member list in ascending or descending order, click the appropriate column heading. The column heading that includes the arrow is the column for which the list is sorted. If the arrow is pointing up, the list is sorted in ascending order. If the arrow is pointing down, the list is sorted in descending order.

After selecting members, you can:

- Click **Remove Members** to remove members from the collection

- Click **Rename Folder** to rename the folder.
- Click **Delete Folder** to delete the collection
- **Folder Membership.** This section enables you to add folders to other folders. Refer to "Saving to a Folder" for more information on adding a folder to another folder.

Related Procedures

- Removing Members from Folder
- Renaming a Folder
- Deleting a Folder

Related Topics

- Data Pane Overview
- Tree View

Removing Members from Folder

One way to manage HP BladeSystem Integrated Management environment in HP Systems Insight Manager folders is to remove members.

To remove members from a view:

1. Select **Tools->Integrated Consoles->HP BladeSystem**. The **HP BladeSystem** page is displayed.
2. Click either **Physical View** or **Logical View** depending on the view you want to remove members from. If you click **Physical View**, the **Physical View** page is displayed. If you click **Logical View**, the **Logical View** page is displayed.
3. Select the members that you want to remove from the view.
4. Click **Remove Member(s)**.
5. A confirmation box is displayed. Click **OK** to continue with the deletion, or click **Cancel** to cancel the deletion.

Related Procedures

- Renaming a Folder
- Deleting a Folder

Related Topic

- Folder Management

Renaming a Folder

One way to manage HP BladeSystem Integrated Management environment in HP Systems Insight Manager folders is to rename existing folders.

To rename folders in a view:

1. Select **Tools->Integrated Consoles->HP BladeSystem**. The **HP BladeSystem** page is displayed.
2. Click a folder name in the tree view. The folders page is displayed.
3. Click **Rename Folder**. The **Rename Folder** section is displayed.
4. In the **Enter a new name for the folder** field, enter the new name.
5. Click **OK** to rename the folder, or click **Cancel** to not rename the folder.

Related Procedures

- Renaming a Folder
- Deleting a Folder

Related Topic

- Folder Management

Deleting a Folder

One way to manage HP BladeSystem Integrated Management environment in HP Systems Insight Manager views is to delete existing folders in the view. Folders can only be deleted if they are empty.

To delete folder:

1. Select **Tools->Integrated Consoles->HP BladeSystem**. The **HP BladeSystem** page is displayed.
2. Click either **Physical View** or **Logical View** depending on the view you want to delete folders from. If you click **Physical View**, the **Physical View** page is displayed. If you click **Logical View**, the **Logical View** page is displayed.
3. Select the folder that you want to delete.
4. Click **Delete Folder**.
5. A confirmation box is displayed, click **OK** to delete the folder, or click **Cancel** to cancel the deletion process.

Related Procedures

- Renaming a Folder
- Removing Members from Folder

Related Topic

- Folder Management

Saving to a Folder

You can add systems to a new or existing folder.

To add systems to a folder:

1. Select **Tools->Integrated Consoles->HP BladeSystem**. Select a system in the tree view to display the data pane.
2. Click **Add to folder**. The **Save As** page is displayed.

This link is found in the following locations:

- **For racks.** Select a rack in the tree view. The link is located in the **Folder Membership** section under the **Information** tab.
 - **For enclosures.** Select an enclosure in the tree view. The link is located in the **Folder Membership** section.
 - **For power enclosures.** Select a power enclosure in the tree view. The link is located in the **Folder Membership** section.
 - **For interconnect switches.** Select an interconnect switch in the tree view. The link is located in the **Folder Membership** section.
 - **For blades.** Select a blade in the tree view. The link is located in the **Folder Membership** section under the **Information** tab.
 - **For folders.** Select a folder in the tree view. The link is located in the **Folder Membership** section and is called **Add this folder to another folder**.
3. Select either:
 - **Place in folder.** To place the blade in an existing folder. Click the down arrow to select a folder.
 - **New folder.** Enter the name of the new folder to place the blade in.
 4. If you select **New folder**, you must select which view to place the folder. Click the down arrow in the **to be placed under folder:** and select either **Physical View** or **Logical View**.
 5. Click **OK** to save the blade in the folder, or click **Cancel** to cancel the procedure to return to the data pane page.
 6. When the save is successful, click **Close** to close the window.

Related Topics

- Overview
- Data Pane Overview
- Tree View
- p-Class Rack
- p-Class Interconnect Switch

Glossary

central management server (CMS)	A system in the management domain that executes the HP Systems Insight Manager software. All central operations within HP Systems Insight Manager are initiated from this system.
critical status	A state generated when HP Systems Insight Manager can no longer communicate to a managed system.
Desktop Management Interface (DMI)	An industry standard protocol, primarily used in client management, established by the DMTF. DMI provides an efficient means of reporting client system problems. DMI-compliant computers can send status information to a central management system over a network.
discovery	A feature within a management application that finds and identifies network objects. In HP management applications, discovery finds and identifies all the HP systems within a specified network range.
Domain Name Service (DNS)	A service that translates domain names into IP addresses.
enclosure	A physical container for a set of blades servers. It consists of a backplane that routes power and communication signals and additional hardware for cabling and thermal issues. It also hosts the CPU or server power supplies.
event	<p>Information sent to certain users that something in the managed environment has changed. Events are generated from SNMP traps and are preconfigured in this release. HP Systems Insight Manager receives a trap when an important event occurs. Events are defined as:</p> <ul style="list-style-type: none">● Informational. Events of this type require no attention and are provided as useful information.● Normal. Events of this type indicate that this event is not a problem.● Minor. Events of this type indicate a warning condition that can escalate into a more serious problem.● Major. Events of this type indicate an impending failure.● Critical. Events of this type indicate a failure and signal the need for immediate attention.
hardware status	<p>The operating state of SNMP-based systems. A hardware status is determined by polling SNMP information from the system. Status is defined as:</p> <ul style="list-style-type: none">● Critical. HP Systems Insight Manager can no longer communicate with the system. The system was previously discovered, but cannot be pinged. The system might be down, powered off, or no longer accessible on the network because of network problems.● Major. A problem exists.

- **Minor.** The system is functioning but with errors.
- **Normal.** The system is functioning correctly.
- **Unknown.** HP Systems Insight Manager is not able to obtain management information about the system.
- **Disabled.**

identification	An aspect of the discovery process that identifies the management protocol and type of system.
Internet Protocol (IP)	Specifies the format of datagrams (packets) and the addressing scheme on a network. Most networks combine IP with Transmission Control Protocol (TCP), which establishes a virtual connection between a destination and a source.
Major status	Aggregate status information collected from the system that indicates one or more of the monitored subsystems are not operating properly which is impacting the system. Action should be taken immediately.
Minor status	Aggregate status information collected from the system that indicates one or more of the monitored subsystems are not operating properly which is impacting the system. Action should be taken as soon as possible to prevent further failure.
racks	A set of components cabled together to communicate between themselves. A rack is a container for an enclosure.
Simple Network Management Protocol (SNMP)	One of the management protocols supported by HP Systems Insight Manager. Traditional management protocol used extensively by networking systems and most servers. MIB-2 is the standard information available consistently across all vendors.
system	Nodes on the network that communicate through TCP/IP or IPX. To manage a system, some type of management protocol (for example, SNMP, DMI, or WBEM) must be present on the system. Examples of systems include servers, workstations, desktops, portables, routers, switches, hubs, and gateways.
uncleared event status	<p>Events that have a Critical, Major, Minor, Normal, or Informational severity.</p> <ul style="list-style-type: none"> ● Critical. A failure has occurred, and immediate attention is required. ● Major. A failure is impending. ● Minor. A warning condition exists that can escalate into a more serious problem. ● Normal. These events are not a problem. ● Informational. No attention require. This status is provided as useful information
unknown status	HP Systems Insight Manager is not able to obtain management information about the system using SNMP or DMI. Although no management instrumentation information is available, the system

	can be pinged. It might have an invalid community string or security setting.
user	A network user with a valid login on the CMS that has been added to HP Systems Insight Manager.
Version Control Agent (VCA)	An agent that is installed on a server to enable you to see the HP software installed on that server. The Version Control Agent can be configured to point to a Version Control Repository Manager agent, enabling easy version comparison and software update from the repository.

Index

B

- bc1000, 19
- BL10e, 19
- blade, 5
 - save to collection, 24

C

- Cisco CGESM switch, 13
- collection membership management, 11, 21

E

- e-Class blade, 15–16, 19–20
 - deployment, 19
- e-Class enclosure, 21
- enclosure, 5
- enclosure model, 11, 21
- enclosure name, 11, 21
- enclosure serial number, 11, 21

F

- firmware revision, 11, 21
- folder, 5

I

- iA, 21
- iLO, 11

L

- logical view, 4, 21–23
 - add folder, 21–22
 - delete folder, 21–23
 - remove members, 21–22
 - rename folder, 21–22

P

- p-Class blade, 6–7, 10–11
 - deployment, 11
- p-Class enclosure, 11
- p-Class power enclosure, 12
- p-Class rack, 15
- p-Class switch, 13, 15
- physical view, 4, 21–23
 - add folder, 21–22
 - delete folder, 21–23
 - remove members, 21–22
 - rename folder, 21–22
- picture view, 11, 21

R

- rack, 5

S

- SNMP, 11, 21
- switch, 5
 - save to collection, 24
- switch contact, 13
- switch location, 13
- switch model, 13
- switch name, 13
- switch serial number, 13