

HP BladeSystem Integrated Manager in HP Systems Insight Manager



Manufacturing Part Number: 381270-005
September 2006, Edition 5

©Copyright 2004-2006 Hewlett-Packard

Table of Contents

Legal Notices	4
Warranty	4
Restricted Rights Legend	4
Copyright Notice	4
Trademark Notices	4
Revision History	5
Overview	6
What's New in HP BladeSystem Integrated Manager 2.2	6
HP BladeSystem page	6
Tree view	7
Expanding the tree view	8
Selection in the tree view	9
Tree view status	9
Available drilldowns	9
Selection states for collections	9
Tree view buttons	10
Icon view	11
.....	11
Table view	12
System View Columns	12
System List Buttons	17
Picture view	18
Customizing the view	18
Racks and enclosures	20
Overview	20
Rack and enclosure collections	20
Rack view	21
Viewing a rack	22
p-Class rack view	22
c-Class rack view	23
Enclosure view	24
Viewing an enclosure	28
p-Class enclosures	29
e-Class enclosures	29
c-Class enclosures	30
System(s) tab	31
System List buttons	34
Save a collection	35
Deleting a Blade system	35
Events tab	35
Filter Criteria	36
Event Status Legend	36
Event Details	37
Event Collection Columns	37
Selection	37
State	37
Severity	38
Event Type	38
System Name	38
Event Time	38
Assigned To	38

Comments	38
System Type	38
Rack Name	38
Enclosure Name	39
Event Management Buttons	39
System page	41
Identity tab	41
System Status	42
More Information	42
Identification	42
Why is the system named "orphan_nnn"?	43
Product Description	44
Contact Information	44
Asset Information	45
Management Processor	45
Host Server	45
Storage Server	45
Associations	45
Tools and Links tab	46
System Management Pages	46
System Web Application Pages	46
HP Systems Insight Manager Pages	46
Event tab	47
Filter Criteria	47
Event Status Legend	48
Event Details	48
Event Collection Columns	48
Selection	49
State	49
Severity	49
Event Type	49
System Name	49
Event Time	49
Assigned To	49
Comments	50
System Type	50
Rack Name	50
Enclosure Name	50
Event Management Buttons	50
Performance tab	51
PortMapping tab	52
Onboard Administrator links	54
Glossary	55
Index	59

Legal Notices

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Warranty

A copy of the specific warranty terms applicable to your HP product and replacement parts can be obtained from your local Sales and Service Office.

Restricted Rights Legend

Use, duplication, or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 for DOD agencies, and subparagraphs (c) (1) and (c) (2) of the Commercial Computer Software Restricted Rights clause at FAR 52.227-19 for other agencies.

HEWLETT-PACKARD COMPANY
3000 Hanover Street
Palo Alto, California 94304 U.S.A.

Use of this documentation and any supporting software media supplied for this pack is restricted to this product only. Additional copies of the programs may be made for security and backup purposes only. Resale of the programs, in their present form or with alterations, is expressly prohibited.

Copyright Notice

© Copyright 2004-2006 Hewlett-Packard Development Company, L.P.

Trademark Notices

HP-UX Release 10.20 and later and HP-UX Release 11.00 and later (in both 32- and 64-bit configurations) on all HP 9000 computers are Open Group UNIX 95-branded products.

Java is a U.S. trademark of Sun Microsystems, Inc.

Linux is a U.S. registered trademark of Linus Torvalds.

Microsoft, Windows, and Windows NT are U.S. registered trademarks of Microsoft Corporation.

UNIX is a registered trademark of The Open Group.

Revision History

Revision History	
Revision Version 2.2	September 2006
Revision Version 2.1	May 2006
Revision Version 1.3	July 2005

Overview

HP BladeSystem Integrated Manager is an HP Systems Insight Manager (HP SIM) plugin that enables you to manage blade systems from HP SIM. HP BladeSystem Integrated Manager is comprised of blade computer systems, integrated connectivity to data and storage networks, and shared power subsystems. The HP BladeSystem Integrated Manager enables you to quickly navigate your HP blade environments including server blades and desktops, enclosure infrastructures, racks, and integrated switches, through hierarchical tree views. Users are able to conveniently configure, deploy, and manage individual or groups of blade systems.

To access the **HP BladeSystem** Page, select **Tools->Integrated Consoles->HP BladeSystem** from the menu bar in HP Systems Insight Manager or from the **Systems and Events** panel, `Systems\Shared\System by Type\HP BladeSystem`.

What's New in HP BladeSystem Integrated Manager 2.2

- Adds support for Storage Blades, Virtual Connect Manager, and the Infi Band Switch

Related procedures

- HP BladeSystem page
- p-Class rack view
- p-Class enclosures
- c-Class rack view
- c-Class enclosures

Related topics

- Tree view
- Table view
- Icon view
- Picture view

HP BladeSystem page

The **HP BladeSystem** page defaults to a tree view to display:

- All p-Class racks for p-Class components including p-Class blades, switches, enclosures and racks
- All e-Class enclosures for Consolidated Client Infrastructure (CCI) blade PCs, e-Class blades and enclosures
- All c-Class racks for c-Class components including c-Class blades, switches, c-Class enclosures, Onboard Administrator and racks

You can select one or more components. To select all of the HP BladeSystem components, select **Select “HP BladeSystem” itself**.

The **HP BladeSystem** page can be viewed in the following ways:

- tree view
- icon view
- table view
- picture view

Related procedures

- p-Class rack view
- p-Class enclosures
- e-Class enclosures
- c-Class rack view
- c-Class enclosures
- Onboard Administrator links

Related topics

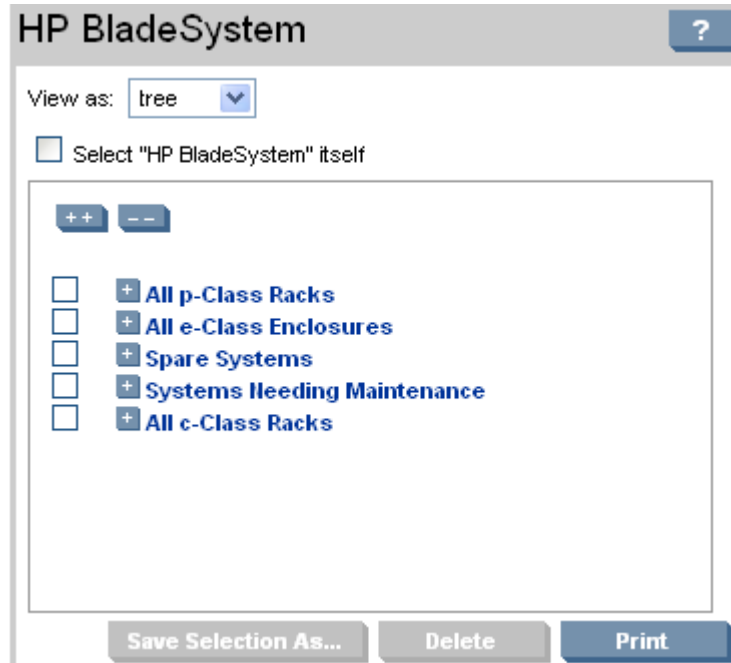
- Tree view
- Table view
- Icon view
- Picture view

Tree view

The tree view provides an automatically populated representation of the actual physical hierarchy of blade components. For example, blades within enclosures within racks and is a good place to create and utilize collections of components.

When a collection is selected in the **Systems and Events** panel or from the system table view page or event table view page, the tree view is displayed in the workspace. The tree view is initially collapsed. Systems might appear in multiple locations, because they can be in multiple collections. Users can view only systems that they are authorized to see. Therefore, if a user is not authorized to view a particular system in the tree, that branch is not displayed. The following sections are available on the tree view page:

1. Expanding the tree view
2. Tree view status
3. Tree view buttons



Expanding the tree view

Branch nodes can be expanded by clicking the toggling expansion icon. However, the system name is not an expansion control, but a drilldown. When a branch is collapsed, the icon appears as . When clicked, the branch expands to show the child systems, and the icon toggles to . Clicking the icon again collapses the branch and toggles the icon back.

Note:





The expansion state persists only for the page session. When the page is reloaded or navigated to again, a fresh tree is loaded. This is to ensure that all newly discovered systems are added to the view.

Note:



The tree branch expansions differ from the **Systems and Events** panel and the workspace. In the **Systems and Events** panel, the branch can be expanded by clicking the icons or the branch label. In the workspace, the branch can be expanded by clicking the icon only, since clicking the system name invokes the drilldown feature.

A paging mechanism is provided in the branches. When a branch is expanded, the first 100 systems are displayed. To view additional systems, click **next...of....** Clicking this link displays the remaining systems, up to 100. If only one system remains in the next page, it is simply added to the page in place of the **next** link.

At the top of each tree view there are two expansion buttons. To expand all branches of the tree, click . To collapse all branches of the tree to first level branches, click . If there are too many systems to load into the expand all page, a popup message appears stating that there are too many systems in the tree and the function cannot be performed.

Selection in the tree view

The selection control for the tree view cycles through four states using the following check icons:



First, initial state, nothing selected.



Second state, both the container and the contents are selected. If the contents were not already expanded, the next level of children are expanded to show the selection.



Third state, all of the contents are recursively selected. The children are expanded (if not already) to show they are selected. Only the next level is expanded.



Fourth state, just the container is selected.

Tree view status

The tree view displays status data for each system. The status icon is located in the left of the tree view next to the selection checkbox. If the status of the systems is Unknown, no status icon appears. If the systems are containers, the status to the left of the container name is shown as the most critical status of the systems in the container, including the container status. The status of the container itself is displayed to the right of the system name along with a system type label.

Available drilldowns

The tree view contains hyperlinks for the system name and status icon drilldowns. If a system name is clicked, the **System Page** for that particular system appears. The status icons drilldown to the status URL for that system, unless the status icon is the status icon to the left of a container. Clicking on the roll-up status of a branch loads a table view of all the systems in that branch which match the roll-up status. Thus, you are presented with all the systems that are contributing to the severity of the roll-up status.

Selection states for collections

In the tree view, you cannot select a collection and the members of the same collection simultaneously. When a collection is selected, the members are displayed and their selection boxes are disabled. The selection states for a collection are as follows:



The initial state, nothing is selected



The collection itself is selected and the contents of the collection are disabled



The members of collection are selected; the collection itself is unselected

Additionally, there is a checkbox at the top of the tree that enables you to select the collection that is being viewed. When the checkbox is checked, all the checkboxes under the collection are cleared and disabled. When the checkbox is deselected, the checkboxes under the collection become selectable.

Tree view buttons

Three buttons at the bottom of the tree view page are available to users with full configuration rights.

- **Save selection as.** When a system or group of systems is selected, this button is used to save the selection with a new name. Changes are saved on a per-user.
- **Delete.** This button is used to delete one or more systems from the database. Select the systems to be deleted, and click **Delete**. A dialog box appears. Click **OK** to continue with the deletion or click **Cancel** to cancel the operation. The tree view is refreshed.

Note:



Only systems can be deleted from the tree view. If a collection is selected, the **Delete** button becomes disabled. Collections must be deleted through the **Customize Collections** page.

Note:



If a VM Host is deleted, it can still be accessed through the Virtual Machine Management Pack console, and the operations that can be performed on a VM Host are not affected by the deletion of the HP Systems Insight Manager (HP SIM) system. The Virtual Machine Management Pack console continues to show the HP SIM status.

Note:



If you select a collection by checking **Select "collection name" collection** itself, the **Delete** button is disabled. To delete collections, go to the **Customize Collections** page.

- **Print.** Click **Print** to display a printable version of the tree. Print the tree from the browser by clicking **File->Print**.

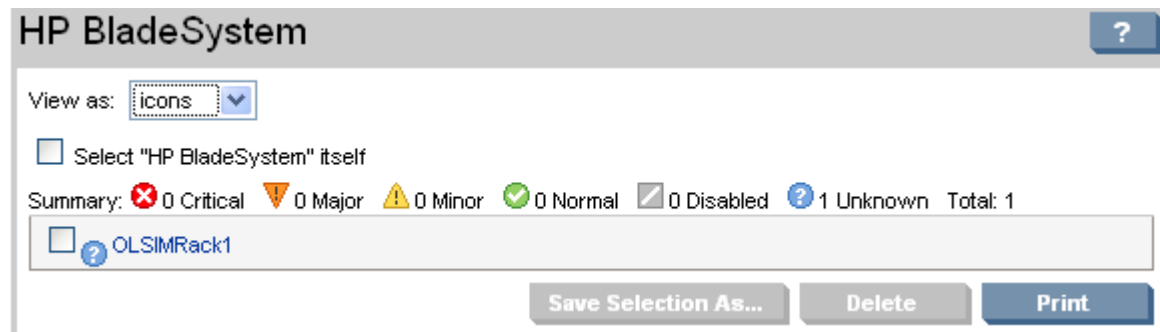
Print is available regardless of your rights, however the other options are only enabled if you have appropriate rights.

Related topics

- Overview
- HP BladeSystem page
- Icon view
- Table view

Icon view

The icon view lists the system name of all discovered systems as well as the System Health Status for each system. The legend shows how many systems in the view are Critical, Major, Minor, Normal, Disabled, and Unknown. Select the checkbox next to the system name to select a system. You can select more than one system or to select all an entire collection, select **Select "collection name" itself**.



In HP Systems Insight Manager, a system has one of the following health 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 Agent, some component has failed. The system might no longer be properly functioning, and data loss can occur. In Insight Manager (WIN32), this status was identified as *Failed*.

⚠ Minor. A minor problem exists with this system. For systems running Insight Management Agent, some component has failed but the system is still functioning. In Insight Manager (WIN32), this status was identified as *Degraded*.

⚠ Warning. The system has a potential problem or in a state that might become a problem.

✓ 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** 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, or it might be an IP address that is no longer associated with a system.

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

Note:



HP Insight Management Agent for Servers for Windows continue to use the terms Normal, Degraded, Failed, and Inaccessible. Minor and Major status are only associated with systems running these agents.

Informational. The system might be in a transitional state or a non-error state.

Related topics

- Overview
- HP BladeSystem page
- Tree view
- Table view

Table view

The table view lists the system name and type and sorts information into columns. The legend shows how many systems in the view are Critical, Major, Minor, Normal, Disabled, and Unknown. Place your cursor over a column name for a brief description of that column. For more information regarding table view, see the *HP Systems Insight Manager Technical Reference Guide* at <http://h18013.www1.hp.com/products/servers/management/hpsim/infolibrary.html>.

HP BladeSystem

View as: table

☐ Select "HP BladeSystem" itself

Summary: 0 Critical 0 Major 0 Minor 0 Normal 0 Disabled 1 Unknown Total: 1

HS	MP	SW	VPM	System Name	System Type	System Address	Product Name	OS Name
<input type="checkbox"/>	?			OLSIMRack1	Rack			

Save Selection As... Delete Print

System View Columns

Sort columns by clicking the column header for ascending or descending order. Place your cursor over a column name for a brief description of the column. The columns are not available when you select the **icons** view. See:

- Selection
- Health Status
- Management Processor
- Software Status
- ProLiant Essentials Provisioning and Recovery Pack
- HP ProLiant Essentials Vulnerability and Patch Management Pack
- System Name
- System Address
- Product Name
- Operating System Name

Selection

Select the checkbox in this column to select a system. You can select more than one system. This option is available in the table view, tree view, and icon view. Select the checkbox in the column heading to select or deselect all displayed systems. To select all of the HP BladeSystem components, select the checkbox **Select "HP BladeSystem" itself**.

System Name

This column contains the actual system name of all discovered systems. Systems can be shown as a single system or as a system in a container. When you place the cursor over the system name, the full system Domain Name Service (DNS) name is shown, which helps differentiate between two or more systems that share the same system name. If you click the system name link, the **System Page** appears. If you click a system that is a container (rack or enclosure), the picture view for that object displays.

The **System Name** column displays systems along with their associated devices. The following list shows the associations available in HP Systems Insight Manager:

- Management processor to server
- Server to enclosure
- Management processor to enclosure
- Enclosure to rack
- Switch to enclosure
- System to cluster

The following system types are containers:

- Rack
- Enclosure
- Cluster

When servers and management processors in racks and enclosures are discovered and identified, associations are made between the systems and the racks and enclosures in which they reside. This association displays in the **System Name** column on the system table view page by showing *name in system type container name*.

Clicking an enclosure name in the **System Name** column produces a list of all discovered systems in the selected enclosure. The status for both racks and enclosures is always Unknown.

When switches in blade enclosures are discovered and identified, associations are made between the switches and the enclosures in which they reside. This association appears in the **System Name** column on the system table view page by showing *switch_name* in Encl. *enclosure_name*. The **System Type** column displays Switch as the system type. For HP Systems Insight Manager to identify and manage the HP ProLiant p-Class server blades correctly, the HP Insight Management Agent 5.50 or later must be installed on the blades to make associations work and event correlation function properly.

When a server blade is identified through another system in the same rack or enclosure, associations are made between the iLO and the enclosures in which they reside. This association appears in the **System Name** column on the system table view page by showing the system serial number prepended with *Server_* in Encl. *enclosure_name*. For example, *Server_C349KJP5D876* in Encl. *Encl4*. The system address, product name, and operating system are not displayed for these systems.

To launch HP Serviceguard Manager to manage the server belonging to an HP Serviceguard cluster, be sure that:

- HP Serviceguard Manager is installed and registered with HP Systems Insight Manager
- The system selected is an HP-UX or Linux server that belongs to an HP Serviceguard cluster

Health Status

The health status column (indicated by HS) displays the overall system health status, which is determined by the default Hardware Status Polling task. By clicking the status icon in this column, the **HP Management Agents** or the **HP Instant Tootools for Servers** page displays. If the system does not have Web Agents or Instant Tootools installed, the **System Page** displays.

The hardware status displayed for container systems, such as Serviceguard or a complex, it is the actual hardware status for the container itself. For clusters, it is the ping status.

Management Processor

The management processor column (indicated by MP) displays the status icon of the management processor, if the system has an Integrated Lights-Out Board (iLO) installed. Otherwise, the Informational icon is displayed. Clicking on the status icon displays the **System Page** for the management processor.

Software Status

The software status column (indicated by SW), available for servers only, indicates both the availability of software updates and how critical they are.

If you click an Unknown status, HP Systems Insight Manager displays the **Legacy Version Control** page.

If HP Version Control Agent is installed on the system, clicking the software status icon for that system displays **HP Version Control Agent Software Inventory** page. If you hover your cursor over the status icon and the VCA is not installed on the system, a message appears that states Version Control Agent not found.

ProLiant Essentials Provisioning and Recovery Pack

The ProLiant Essentials Provisioning and Recovery Pack status column (indicated by PR) indicates whether the system has been licensed and registered for control by the Provisioning and Recovery Pack. By clicking the status icon in this column, the Provisioning and Recovery Pack page for the selected system displays providing more detailed information.

HP ProLiant Essentials Performance Management Pack

The HP ProLiant Essentials Performance Management Pack (PMP) status column (indicated by PF) displays the cumulative performance status of all monitored subsystems for the system. By clicking the status icon in this column, the **HP ProLiant Essentials Performance Management Pack** page for the selected system displays, providing more detailed performance information.

Note:



If the PMP is not installed on the HP Systems Insight Manager system, this column does not display on the system table view page.

If the PMP is not monitoring a server, the status is Unknown. If you click the status link, the PMP displays a page with information about purchasing a license to monitor that system or shows notification that PMP monitoring is not supported on that system.

Note:



For the **PF** column, a status appears for all systems from the All Servers list. If the status cannot be determined for some reason, the status is set to Unknown.

HP ProLiant Essentials Vulnerability and Patch Management Pack

VPM vulnerability information is displayed in the **VPM** column of the HP Systems Insight Manager console. Initially, the icon depicted in the column displays VPM eligibility information for the target system in the specific row. After target servers are licensed and a vulnerability scan is performed, the column displays the combined status of the last vulnerability scan on the target system (patch status is not displayed in the column). Click the icon to display detailed information about the system status with regard to VPM. Clicking the Normal, Minor, or Major icons opens a new informational page where the last scan results for the system can be accessed. A new scan can also be launched from this page. Clicking the Unknown icon for a system displays an explanatory page listing possible reasons why VPM.

Note:



If VPM is not installed on the HP Systems Insight Manager system, the Informational icon appears in the **VPM** column on the system table view page. Clicking this icon displays information on how to install VPM and purchase licenses.

If the system is not licensed or has not yet been scanned by VPM, the Informational icon appears in the **VPM** column. Clicking this icon either displays details about licensing the target system and a link to the HP Systems Insight Manager License Manager or information about vulnerability scanning and a link to scan for or patch vulnerabilities on the target system.

HP ProLiant Essentials Virtual Machine Management Pack

HP ProLiant Essentials Virtual Machine Management Pack (Virtual Machine Management Pack) status column (indicated by **VM Status**) displays the cumulative status of all Virtual Machine Hosts and Virtual Machine Guests. Clicking the status icon on the **VM Status** column displays the **HP ProLiant Essentials Virtual Machine Management Pack** page for the selected system, providing more information on the status of the Virtual Machine.

Note:



When Virtual Machine Management Pack is not installed on the HP Systems Insight Manager system, this column does not appear on the All Systems system table view page. Similarly, if HP ProLiant Essentials Virtual Machine Management Pack is uninstalled, the **VM Status** is no longer updated in the HP Systems Insight Manager console.

For systems with type as Server and subtype as Virtual Machine Host or Virtual Machine Guest, HP Systems Insight Manager populates the **VM Status** column with appropriate status icons.

System Type

This column displays the system type, for example, Server, or Desktop. The system type Unmanaged indicates systems that have no management protocol that HP Systems Insight Manager could detect, for example, no Simple Network Management Protocol (SNMP), Web-Based Enterprise Management (WBEM), Desktop Management Interface (DMI), or Secure Shell (SSH). The system type Unknown indicates systems that have some management protocol but have not matched any identification rule in HP Systems Insight Manager.

Note:



Unmanaged systems might indicate that the credentials were not set correctly in order to communicate with the system. If you know that there are HP Insight Management Agents installed, verify the credentials used.

Operating System Name

The operating system column (indicated by OS Name) displays the operating system on the system. For a Serviceguard cluster, this column displays either **HP Serviceguard** if the cluster is of type HP-UX or **HP Serviceguard for Linux** if the cluster is of type Linux. **HP Serviceguard** and **HP Serviceguard for Linux** under the **OS Name** column of the *virtual* cluster system column do not represent the actual operating system name and type. This field is used to let you know the servers that make up the cluster are of HP-UX or Linux type, respectively.

System Address

This column displays the primary IP addresses of the system that HP Systems Insight Manager uses to communicate with the system. Not all systems have an IP address, including HP Serviceguard clusters.

Product Name

This column displays the product name of the system.

System List Buttons

Three buttons at the bottom of the system table view page are available to users with full-configuration-rights. These buttons are not available when using a tool and selecting an individual target system.

- **Save selection as.** When a system is highlighted, this button is used to save the selection with a new name. Changes are saved on a per-user, per-collection basis.
- **Delete.** This button is used to delete one or more systems from the database. Select the systems to be deleted, and click **Delete**. A dialog box appears. Click **OK** to continue with the deletion or click **Cancel** to cancel the operation.
- **Print.** When the report is displayed, select **File->Print** from the browser menu to print the report.

Note:

Because certain print options are not supported in HP Systems Insight Manager, you cannot:



- Change the **Orientation** to **Landscape** in the **Print** dialog box (see **Printing Problems** in the Troubleshooting section of HP Systems Insight Manager Technical Reference Guide for a workaround to this issue)
- Cancel printing after the print job has been executed, but you can access the operating systems print queue and cancel the print job
- Print to a file
- Print selected systems, only entire list of systems

- Print the system table view page if you close the browser immediately after issuing a print request

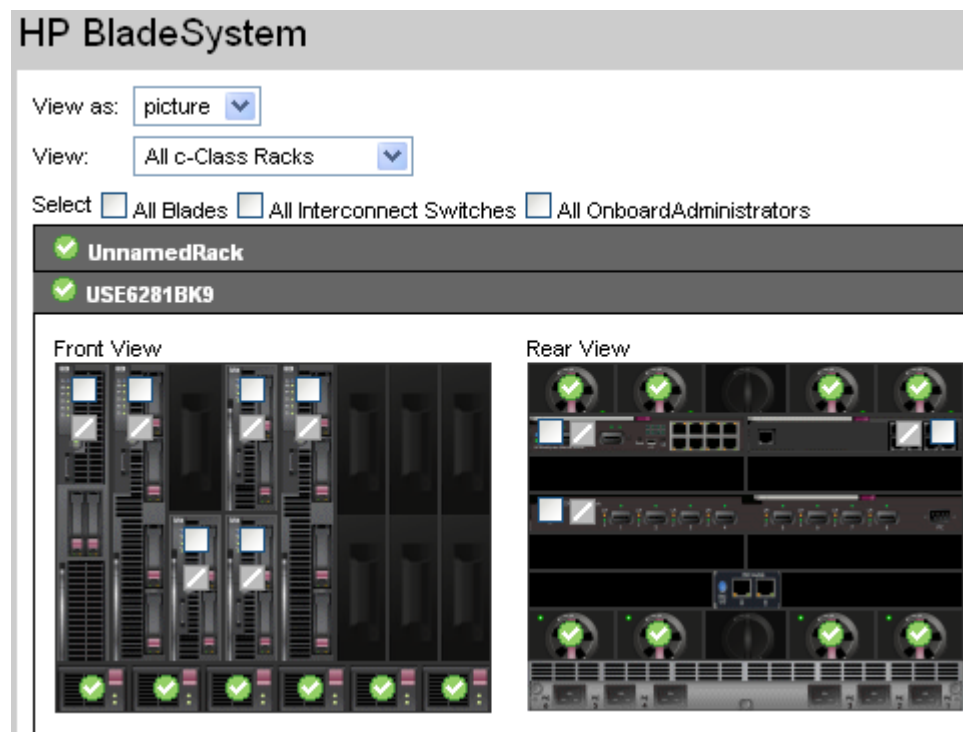
Buttons are disabled if you do not have appropriate rights. However, the **Print** button appears for all users.

Related topics

- Overview
- HP BladeSystem page
- Icon view
- Tree view

Picture view

The **Picture View** page displays a consolidated picture of all discovered racks and enclosures in p-Class, c-Class, and e-Class. To access the picture view, select **Picture** from the dropdown list on the **HP BladeSystem** page. By default, the p-Class consolidated picture view appears. You can view the e-Class or c-Class consolidated picture view by selecting **Select "All e-Class Enclosures"** or **"All c-Class Racks"**.



Customizing the view

You can change the way the picture view page appears. Click the down arrow on the **View as** dropdown list, and select **table**, **icon**, or **picture view**. However, the picture view is only available if you have already drilled down to a rack or enclosure by clicking the rack or enclosure name on the system table view page and *then* switching back to a tabular or iconic view. Drilling down into

a rack or enclosure restricts the systems to only those that pertain to the rack or enclosure. You can then switch between the other view types.

Related topics

- [Overview](#)
- [HP BladeSystem page](#)
- [Icon view](#)
- [Tree view](#)

Racks and enclosures

Overview

A blade server is typically a very dense server system containing microprocessors, memory, and network connections that can be easily inserted into a rack-mountable enclosure to share power supplies, fans, switches, and other components with other server blades. Server blades tend to be more cost-efficient, faster to deploy, and easier to adapt to growth and change than traditional rack-mounted or tower servers.

A rack is a set of components cabled together to communicate between themselves. An enclosure is 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. A rack is a container for an enclosure although racks and enclosures are considered containers.

HP BladeSystem Integrated Manager in HP Systems Insight Manager provides the following collection types:

- **e-Class.** e-Class collections include the Consolidated Client Infrastructure blade PC Enclosures which host 20 PC blades including bc1000/bc1500 PC blade types, and the e-Class BL10e server blades.
- **p-Class.** p-Class enclosures together form a rack if a set of enclosures are networked in the hardware level. A p-class enclosure hosts the ProLiant BL p-Class server and workstation types.
- **c-Class.** c-Class collections consist of the HP BladeSystem c7000 Enclosure, HP ProLiant BL c-Class server blades, network interconnect components, Onboard Administrator, and management tools that enable adaptive computing, optimized for rapid deployment.

Rack and enclosure collections

HP Systems Insight Manager (HP SIM) discovers and identifies server blade racks and enclosures.

There are two specific search criteria for racks and enclosures:

- Rack
- Enclosure

Running searches using these criteria returns a list of systems contained in the selected racks or enclosures. Any criteria, except for the two listed previously, returns the racks and enclosures themselves, not the systems in those racks and enclosures. For instance, a **system name** search for the rack **Franklin 1** would return the system **Franklin 1**, not any systems *in* **Franklin 1**.

Two default collections are related to racks and enclosures and are listed under the **System Type** collection:

- All Racks
- All Enclosures

On the system table view page, racks display in two formats:

- Encl1 in Rack1
- Rack1

The **Picture View** page can be displayed by clicking rack hyperlink.

Clicking an enclosure name in the **System Name** column on the system table view page produces a list of all discovered systems in the selected enclosure. The status for both racks and enclosures is always Unknown.

The **Picture View** page displays if the server is part of an enclosure or rack. This page contains a diagram of the discovered systems in the enclosure and, if available, in the rack. While signed in to HP SIM and placing your cursor over a server shown in the view, you receive information on that particular server, including server blade name, slot number, and the enclosure in which the server is located.

Related procedures

- p-Class rack view
- c-Class rack view
- e-Class enclosures
- c-Class enclosures
- p-Class enclosures

Related topics

- System(s) tab
- Events tab
- Overview
- HP BladeSystem page
- Picture view
- Tree view

Rack view

The **Rack View** page is available for p-Class and c-Class collections.

Note:



For c-Class devices (blades and switches in an enclosure) to appear in HP BladeSystem Integrated Manager tree or picture view, at least one Onboard Administrator in that enclosure must be discovered before or after the devices. The devices may be discovered in HP SIM but do not appear in HP BladeSystem Integrated Manager tree or picture view if none of the Onboard Administrators are discovered.

Note:



Any change in the physical configuration of the c-Class enclosure, such as moving the devices from one slot to another or removing a device, requires re-identification of the Onboard Administrator.

Note:



The **Rack View** is not available for e-Class collections.

The **Rack View** page displays the following tabs:

- “System(s) tab”

Note: The **System(s)** tab displays in picture view when the **Rack View** page is accessed.

- “Events tab”

Viewing a rack

To view a rack, click on a name of a rack in an HP BladeSystem Integrated Manager collection. The **Rack View** page is displayed in picture view. The picture view page for racks contains an image of the discovered systems in the corresponding enclosures and power enclosures of the rack.

Related procedures

- p-Class rack view
- c-Class rack view
- p-Class enclosures
- c-Class enclosures
- e-Class enclosures
- Onboard Administrator links

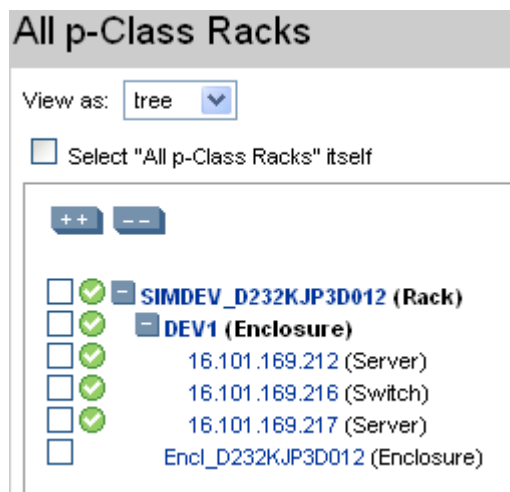
Related topics

- Overview
- HP BladeSystem page
- Enclosure view
- Tree view
- Table view
- Icon view
- Picture view

p-Class rack view

The **All p-Class Racks** and their components, including p-Class server blades, interconnect switches, and server blade enclosures and power enclosures, display in the tree view by default on the **All**

p-Class Racks page. See “Tree view” for more information about the options available from the tree view.



To view a p-Class rack:

1. From the HP Systems Insight Manager Home page, expand the **HP BladeSystem** collection in the **Systems and Events** panel.
2. Click **All p-Class Racks**. You can also expand the toggling expansion control to expand the **p-Class Racks** collection. The p-Class Racks and enclosures appear.
3. Click on the rack that you want to view. The **Rack View** page appears. For more information regarding the items that appear on the p-Class Rack page, see “System(s) tab”.

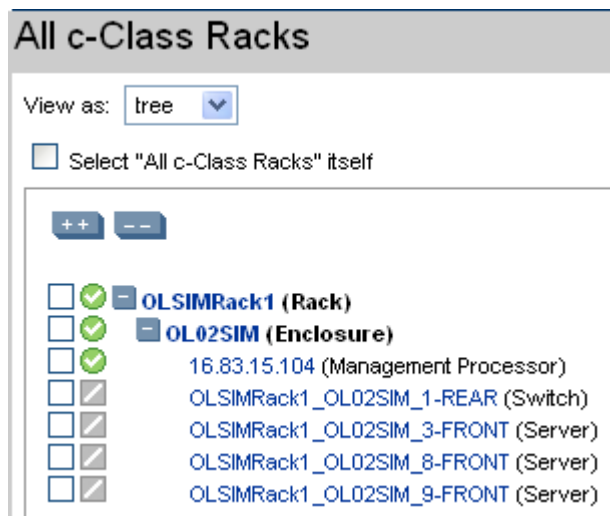
Note: You can also expand the toggling expansion control next to the rack you want to view and click on the enclosure, if available.

Related topics

- Tree view
- Table view
- Icon view
- Picture view
- Rack view
- System(s) tab
- Events tab
- HP BladeSystem page

c-Class rack view

The **All c-Class Racks** and their components, including c-Class server blades, interconnect switches, and c-Class enclosures, Onboard Administrator, power supplies, and fans display in the tree view by default on the **All c-Class Racks** page. See “Tree view” for more information about the options available from the tree view.



To view a c-Class rack:

1. From the HP Systems Insight Manager Home page, click **All c-Class Racks** in the **Systems and Events** panel. You can also expand the toggling expansion control to expand the **c-Class Racks** collection. The c-Class Racks and enclosures appear.
2. Click on the rack that you want to view. The **Rack View** page appears. For more information regarding the items that appear on the c-Class Rack page, see "System(s) tab".

Note: You can also expand the toggling expansion control next to the rack you want to view and click on the enclosure, if available.

Related topics

- Tree view
- Table view
- Icon view
- Picture view
- Rack view
- System(s) tab
- Events tab
- HP BladeSystem page

Enclosure view

The picture view page for enclosures contains a diagram of the discovered systems in the enclosure if available. The enclosure name appears along with a picture view, table view, or iconic view of the enclosure. While signed in to HP Systems Insight Manager (HP SIM), placing your cursor over a server shown in the view, displays information on that particular server, including server blade name, slot number, and the enclosure in which the server is located. You can also click a server name to display information about the server. The **System Page** appears.

Enclosure View

USE6281BK9 (Enclosure)

System(s) Events

Last Update : Wed, 8/16/2006, 3:34 PM CDT

View as: picture

System Status	
Health Status	▼


Identification	
Enclosure Name	USE6281BK9
Serial Number	USE6281BK9
UUID	09USE6281BK9
Rack Name	UnnamedRack
Unit ID (LED)	ON
Onboard Administrator	oa-0016355e36e4
Virtual Connect Manager	16.100.227.60
VCM Domain Name	Virtual_Connect_Domain_1

Power and Thermal	
Power Redundancy	Unknown
Fan Redundancy	Redundant
Enclosure Ambient Temperature	<div>Status</div> <div>°C / °F</div> <div>Graph</div>


USE6281BK9

☐ All Blades
☐ All Interconnect Switches
☐ All OnboardAdministrators

Front View



Rear View



The following systems are displayed in the picture view for racks and enclosures:

- Servers or desktops
- Interconnect switch
- Power supply enclosure

Slots that have no server or desktop identified and no interconnect switch identified are also displayed in the picture view for enclosures.

The following sections are displayed in the picture view for racks and enclosures:

- Provisioning and Recovery Pack

Note: The Provisioning and Recovery Pack links display only if the ProLiant Essentials Provisioning and Recovery Pack is installed on the system.

- **Initialize.** Adds the blade system to Provisioning and Recovery Pack

Note: This link is displayed only for users with authorizations to use this tool.

- **Provision.** Launches the Provisioning and Recovery Pack **Add To Collection** wizard

Note: This link is displayed only for users with authorizations to use this tool.

- **Designate Spare.** Launches the Provisioning and Recovery Pack **Add To Spare Collection** wizard

Note: This link is displayed only for users with authorizations to use this tool.

- **Policy Management.** Launches the **Provisioning and Recovery Pack** home page

Note: This link is displayed for all users.

- **System Status**

- **Health Status icon.** Represents the health of a system including Critical, Major, Minor, or Normal.

- **Identification**

- **Enclosure Name.** Displays the name of the enclosure.
- **Serial Number.** Displays the serial number of the enclosure.
- **UUID.** A unique identifier from the agent or other instrumentation on the system.
- **Rack Name.** Click to display the rack in picture view.
- **Unit ID (LED).** Indicates whether the Unit ID is on or off.
- **Onboard Administrator -** Click the Onboard Administrator link to display the Onboard Administrator home page.

Note: The **Onboard Administrator** link is available only for c-Class enclosures.

- **For c-Class enclosures:**

- **Power and Thermal section**

- **Power Redundancy.** Displays Power Redundancy status. Click **Power Redundancy** to display the Onboard Administrator home page.
- **Fan Redundancy.** Displays Fan Redundancy status. Click **Fan Redundancy** to display the Onboard Administrator home page.
- **Enclosure Ambient Temperature.** Displays the following:
 - **Status.** Displays the current status in icon form.
 - **C/F.** Displays the current temperature in degrees Celsius and Fahrenheit.
 - **Graph.** Displays a graph depicting the temperature.
- The following information displays for each power unit present in the enclosure:
 - **Bay Number.** Displays the number assigned to the bay.
 - **Firmware Revision.** Displays the firmware revision number.
 - **A/C Input.** Indicates the health status of the power unit.
 - **Phase.** Displays the phase.
 - **Serial Number.** Displays the serial number of the power unit.
 - **Part Number.** Displays the part number for the power unit.
 - **Power Consumption.** Displays the power consumption in watts to include:
 - **Output/Capacity.** Displays the current output verses the capacity.
 - **Graph.** Displays a graph depicting the output verses the capacity.

- Fans section
 - ❑ **Bay.** Displays the bay number.
 - ❑ **Health Status.** Displays the health status of the enclosure.
 - ❑ **Part Number.** Displays the part number for the fan.
 - ❑ **Power Used (Watts).** Displays the amount of watts currently used.
 - ❑ **Speed (RPM).** Displays the current speed in RPMs.

- **For p-Class enclosures:**

- Power and Thermal section

The following items are displayed on the **Enclosure View** for a Power Enclosure if at least one iLO in the rack using that power enclosure has firmware version of 1.80 or higher.

- ❑ **Load Balanced Cable.** Indicates whether the load balanced cable is present.
- ❑ **Power Redundancy.** Displays Power Redundancy status.
- ❑ **Temperature A.** Displays overall temperature in the left section of the power enclosure.
- ❑ **Center Temperature.** Displays overall temperature in the center section of the power enclosure.
- ❑ **Temperature B.** Displays overall temperature in the right section of the power enclosure.
- ❑ The following information displays for each power unit present in the enclosure:
 - **Bay Number.** Displays the number assigned to the bay.
 - **Firmware Revision** Displays the firmware revision number.
 - **A/C Input.** Indicates the health status of the power unit.
 - **Input Temperature.** Displays the following:
 - **Status.** Displays the status of the input temperature.
 - **C/F.** Displays the current temperature in degrees Celsius and Fahrenheit.
 - **Graph.** Displays a graph depicting the Trip temperature verses Fail temperature.
 - **Output Temperature.** Displays the following:
 - **Status.** Displays the status of the output temperature.
 - **C/F.** Displays the current temperature in degrees Celsius and Fahrenheit.
 - **Graph.** Displays a graph depicting the Trip temperature verses Fail temperature.

While logged in to HP BladeSystem Integrated Manager in HP Systems Insight Manager placing your cursor over a component shown in the view, displays information on that particular component, including slot number/bay number, server blade name/IP address, product model, and the enclosure in which the server is located. If the bay is empty it displays it as an empty bay. If the Firmware of the power enclosure is less than 1.80, a question mark is displayed for each bay of the enclosure. When the cursor is moved over that bay, it suggests to upgrade the Firmware. You can click a component in the picture view to display information about that component. The **System Page** appears. See "System page" for more information. However, if you click the status icon that is displayed on the component in the picture view, you remain on the **Enclosure View** page.

There are three buttons at the bottom of the picture view page are available to users with full configuration rights.

- **Save selection as.** When a system or group of systems is selected, this button is used to save the selection with a new name. Changes are saved on a per-user.
- **Delete.** This button is used to delete one or more systems from the database. Select the systems to be deleted, and click **Delete**. A dialog box appears. Click **OK** to continue with the deletion or click **Cancel** to cancel the operation. The picture view is refreshed.

Note:



Only systems can be deleted from the picture view. If a collection is selected, the **Delete** button becomes disabled. Collections must be deleted through the **Customize Collections** page.

Note:



If a VM Host is deleted, it can still be accessed through the Virtual Machine Management Pack console, and the operations that can be performed on a VM Host are not affected by the deletion of the HP Systems Insight Manager (HP SIM) system. The Virtual Machine Management Pack console continues to show the HP SIM status.

Note:



If you select a collection by checking **Select "collection name" collection** itself, the **Delete** button is disabled. To delete collections, go to the **Customize Collections** page.

- **Print.** Click **Print** to display a printable version of the picture. Print the picture from the browser by clicking **File>Print**.

Print is available regardless of your rights, however the other options are only enabled if you have appropriate rights.

Viewing an enclosure

To view an enclosure or power enclosure, click an enclosure collection in picture view or click Enclosure Name in the Rack view. The **Enclosure View** page is displayed in picture view. The picture view page for enclosures contains an image of the discovered enclosure with the discovered servers residing in the enclosure.

Related topics

- Overview
- HP BladeSystem page

- e-Class enclosures
- Tree view

p-Class enclosures

p-Class enclosures together form a rack if a set of enclosures are networked in the hardware level. A p-class enclosure hosts the ProLiant BLp Class server types.



To view a p-Class enclosure:

1. From the HP Systems Insight Manager Home page, expand the **HP BladeSystem** collection in the **Systems and Events** panel.
2. Expand the **All p-Class Racks**. The p-Class Racks and enclosures tree expands.
3. Expand the rack that includes the enclosure you want to view.
4. Click the enclosure name that you want to view. The enclosure appears in the Enclosure View page.

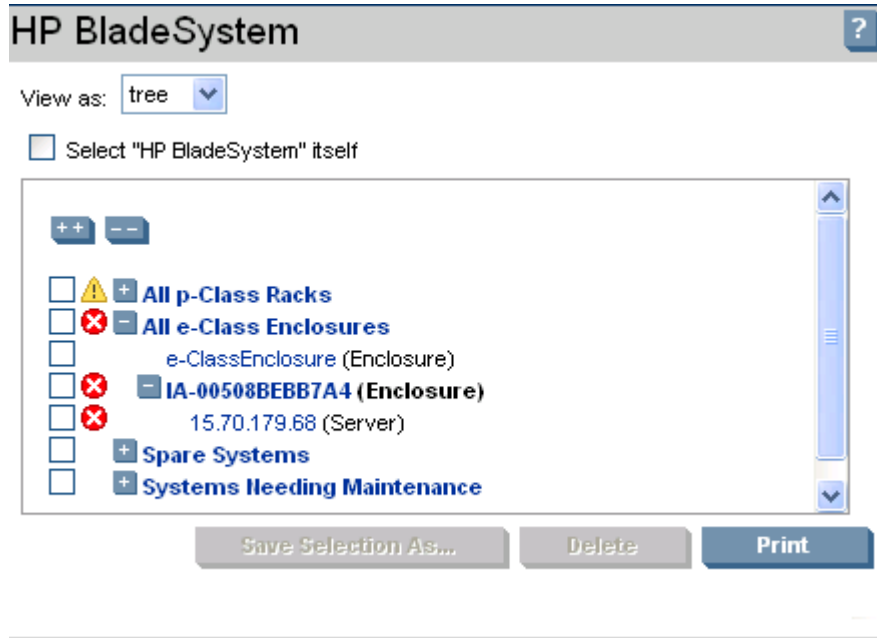
Note: The p-Class power enclosure and power redundancy information appears only when the firmware of at least one of the iLO's is greater or equal to 1.82.

Related topics

- Overview
- HP BladeSystem page
- Tree view
- p-Class enclosures

e-Class enclosures

The e-Class collections include the Consolidated Client Infrastructure blade PC Enclosures which host 20 PC blades including bc1000/bc1500 PC blade types, and the e-Class BL10e server blades.



To access all e-Class Enclosures:

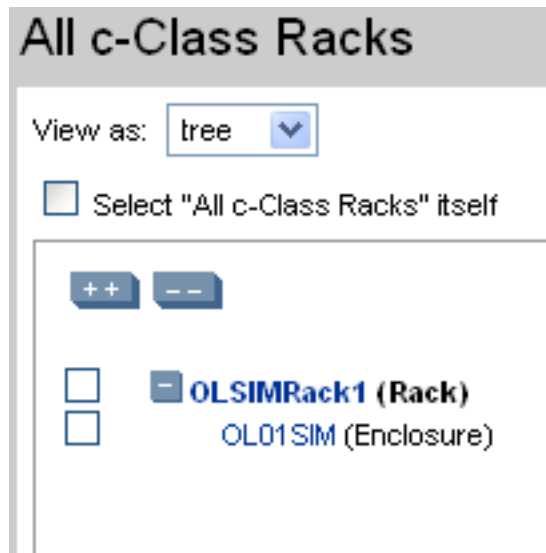
1. From the HP Systems Insight Manager Home page, expand the **HP BladeSystem** collection in the **Systems and Events** panel.
2. Expand the **All e-Class Enclosures** collection. The All e-Class Enclosures tree expands.
3. Click the enclosure name that you want to view. The enclosure appears in the Enclosure View page.

Related topics

- Overview
- HP BladeSystem page
- Tree view
- e-Class enclosures

c-Class enclosures

c-Class collections consist of the HP BladeSystem c7000 Enclosure, HP ProLiant BL c-Class server blades, network interconnect components, Onboard Administrator, and management tools that enable adaptive computing, optimized for rapid deployment.



To view a c-Class enclosure:

1. From the HP Systems Insight Manager Home page, click **All c-Class Enclosures** in the **Systems and Events** panel. You can also expand the toggling expansion control to expand the **c-Class Enclosures** collection. The c-Class Racks and enclosures appear.
2. Click on the rack that you want to view. The **Rack View** page appears.

Note: You can also expand the toggling expansion control next to the rack you want to view and click on the enclosure, if available.

Related topics

- Overview
- HP BladeSystem page
- Tree view
- c-Class enclosures

System(s) tab

The picture view page for racks and enclosures contains a diagram of the discovered systems in the rack or enclosure if available. The rack name appears along with a picture view, table view, or iconic view of the rack. While signed in to HP Systems Insight Manager (HP SIM), placing your cursor over a server shown in the view, displays information on that particular server, including server blade name, slot number, and the enclosure in which the server is located. You can also click a server name to display information about the server. The **System Page** appears.

System(s)

Events

Last Update : Wed, 8/16/2006, 11:29 PM CDT

View as: picture

Select ☐ All Blades ☐ All Interconnect Switches

Enclosure Name [CMSEnclosure](#)

Serial Number EA0PMJS144

UUID 07EA0PMJS14

Firmware Revision Not Available

Power Zone Not Available

Unit ID (LED) Not Available

Temperature C/F Not Available

Health Status

Enclosure Name [ManagedEnclo](#)

Serial Number EA0RMJS144

UUID 07EA0RMJS14

Firmware Revision Not Available

Power Zone Not Available

Unit ID (LED) Not Available

Temperature C/F Not Available

Health Status

The following items are listed on the **Rack View** page.

- **Rack name in header.** Displays the name of the rack.
- **Last Update link.** Displays the current time.

Note: This reflects the Central Management Server time and not the client time.
- **Type of system in parentheses (rack).** Displays the system type of in parenthesis.
- **Help link.** Click the help link, which is displayed as a question mark, to view the online help.
- **View as** dropdown list. Select from the following views:
 - **Table.** See "Table view" for more information.
 - **Tree.** See "Tree view" for more information.
 - **Icons.** See "Icon view" for more information.
 - **Picture.** See "Picture view" for more information.
- **Multi-select checkboxes.** Filter the rack by selecting from the following:
 - All Blades
 - All Interconnect Switches
 - All Onboard Administrators

Note: This option is available for only c-Class collections.
- **Front and rear views.** Displays realistic front and rear picture views which include:
 - A collapsible tray for each enclosure in the rack, with the enclosure status and name in the title bar
 - Selection checkboxes on all selectable items

- Status icons on all items with status
- Each blade or switch hyperlinks to that system's **System Page**

- **Enclosure details.** Enclosure details to the right of the pictures include:

- **Enclosure Name.** Click Enclosure Name to display the picture view of the enclosure.
- **Serial number.** Displays the serial number of the system.
- **Rack name.** Displays the name of the rack.
- **Unit ID (LED).** Indicates whether the Unit ID is on or off.
- **Onboard Administrator.** Displays a link to the Onboard Administrator home page.

Note: The **Onboard Administrator** link is available only for c-Class enclosures.

- **Virtual Connect Manager.** Displays the IP address to the Virtual Connect Manager (VCM). You can click the IP address to access the VCM system.
- **VCM Domain Name.** Displays the VCM domain name.
- **Health Status.** Indicates the health status of the enclosure.
- **Firmware Revision.** Displays the firmware revision number.

Note: This option is available for only p-Class collections.

- **Power zone.** Displays the power zone that the rack where the rack is located. An alert is displayed if the power condition has changed. For example, an alert displays if an administrator removes a power supply from an enclosure.

Note: This option is available for only p-Class collections.

- **Temperature C/F.** Displays the current temperature of the enclosure in degrees Celsius and Fahrenheit.

Note: This option is available for only p-Class collections.

- **Fan Redundancy.** Displays Fan Redundancy status. Click **Fan Redundancy** to display the Onboard Administrator home page.

Note: This option is available for only c-Class collections.

- **Power Redundancy.** Click **Power Redundancy** to display the Onboard Administrator home page.

Note: This option is available for only c-Class collections.

- For power enclosures, the following additional information appears:

- **Load Balanced Cable.** Indicates whether the load balanced cable is present.
- **Power Redundancy.** Displays the Power Redundancy information for the enclosure only if the iLO has firmware version 1.82 or later.

Note: This option is available for only c-Class collections.

Note:

The time displayed is the time the page was last updated. Data is updated every five minutes and/or you can update the page once every five minutes. The **Refresh** button on your browser does not refresh the date in the Rack/Enclosure view.

Note:



The enclosure is highlighted if at least one iLO in the rack using that power enclosure has firmware version of 1.82 or higher.

While logged in to HP BladeSystem Integrated Manager in HP Systems Insight Manager, placing your cursor over a component shown in the view, displays information on that particular component, including slot number/bay number, blade server name/IP address, product model, and the enclosure in which the server is located. If the bay is empty it displays as an empty bay. If the Firmware of the power enclosure is less than 1.80, a question mark is displayed for each bay of the enclosure. When the cursor is moved over that bay, it suggests to upgrade the Firmware to 1.80 or higher. You can also click a component to display information about that component. The **System Page** appears. See “System page” for more information.

System List buttons

Three buttons at the bottom of the **System(s)** tab (picture view) are available to users with full-configuration-rights.

- **Save selection as.** When a system is highlighted, this button is used to save the selection with a new name. Changes are saved on a per-user, per-collection basis.
- **Delete.** This button is used to delete one or more systems from the database. Select the systems to be deleted, and click **Delete**. A dialog box appears. Click **OK** to continue with the deletion or click **Cancel** to cancel the operation.
- **Print.** When the report is displayed, select **File->Print** from the browser menu to print the report.

Note:

Because certain print options are not supported in HP Systems Insight Manager, you cannot:



- Change the **Orientation** to **Landscape** in the **Print** dialog box (see **Printing Problems** in the Troubleshooting section of HP Systems Insight Manager Technical Reference Guide for a workaround to this issue)
 - Cancel printing after the print job has been executed, but you can access the operating systems print queue and cancel the print job
 - Print to a file
 - Print selected systems, only entire list of systems
 - Print the system table view page if you close the browser immediately after issuing a print request
-

Buttons are disabled if you do not have appropriate rights. However, the **Print** button appears for all users.

Save a collection

You can save a collection with a new name or to a specific location.

To save a collection:

1. In the **Name** field, enter a name for the collection.
2. Under **Place in Folder**, select where to save the collection (in a **Private** folder of one of the **Shared** folders).
3. Click **OK** to save the collection, or click **Cancel** to cancel the save operation.

Deleting a Blade system

You can delete a Blade system from a rack.

1. On the system tab (picture view), select one or more systems to delete from the rack or enclosure by selecting the checkbox associated with the system in the image displayed.
2. Click **Delete**. A dialog box appears, stating, *Are you sure you want to delete these systems?*
3. Click **OK** to delete the systems, or click **Cancel** to return to the system tab (picture view) without deleting the systems.

Note:



Containers (for example, racks) must be empty before they can be deleted. Selecting a rack and all its contained systems works without error.

Related topics

- Rack view
- Overview
- Performance tab
- Event tab
- Tools and Links tab

Events tab

The **Events** tab for c-Class racks or enclosures displays all current device events in the enclosure or rack in table view.

The event table view page is divided into the following sections:

1. Filter Criteria

2. Event Status Legend
3. Event Collection Columns
4. Event Details
5. Event Management Buttons

Rack View
STMonteroRack (Rack)

System(s) Events

All Blade Events

To view event details, make sure 'Event Type' column is displayed and click on desired link.

Summary: 0 Critical 0 Major 0 Minor 0 Warning 0 Normal 6 Informational Total: 6

	State	Severity	Event Type	System Name	Event Time	Assigned To	Comments
<input type="checkbox"/>	Not cleared	Informational	Discovered System	monterocmse1b3.americas.cpqcorp.net	4/25/06 4:35 PM		
<input type="checkbox"/>	Not cleared	Informational	Discovered System	monterocmse1b6	4/25/06 4:35 PM		
<input type="checkbox"/>	Not cleared	Informational	Discovered System	monterocmse1b8	4/25/06 4:35 PM		
<input type="checkbox"/>	Not cleared	Informational	Discovered System	monterocmse1b9	4/25/06 4:35 PM		
<input type="checkbox"/>	Not cleared	Informational	Discovered System	monterocmse1b2	4/25/06 4:35 PM		

Clear Delete Assign To... Enter Comment... Print

From this page, you can clear, delete, and assign events, enter comments on the event, and view printable reports.

Filter Criteria

The Event list can be filtered using the **Filter Criteria** dropdown list to view individual systems, such as blades, switches or Onboard Administrator events, separately or you can view all events.

To filter the Event list:

1. From the **Filter Criteria** dropdown list, select a criteria:
 - **All Onboard Administrator Events.** Events that are reported by all Onboard Administrators included in the selected rack or enclosure. This option is only available for c-Class racks or enclosures.
 - **All Blade Events.** Events that are reported by all blades included in the selected rack or enclosure. This option is available for e-Class enclosures as well as p-Class and c-Class racks or enclosures.
 - **All Switch Events.** Events that are reported by all switches included in the selected rack or enclosure. This option is available for p-Class and c-Class racks or enclosures.
 - **All Events.** Events that are exposed by all devices in the selected rack or enclosure. This option is available for p-Class and c-Class racks or enclosures.
2. Click **View**. The filtered Event list appears.

Event Status Legend

The legend shows how many events in the view are Critical, Major, Minor, Normal, and Informational.

Event Details

The event collection can be displayed by clicking:

- An event collection from the **Systems and Events** panel
- An event status icon in the **System Status** panel
- The **All Events Associated with this System** link from the **System Page**
- A private event collection
- A hyperlink in the **Uncleared Events** section on the **System Overview** page

Event collections are filtered based on authorizations. Users can only view events on systems for which they have the appropriate authorization.

When HP Storage Essentials is installed, a link in this section allows you to view the corresponding event details in HP Storage Essentials.

Event Collection Columns

Sort collection results by a particular column, click the column header for ascending or descending order. Place your cursor over a column name for a brief description of the column.

The following columns are displayed:

- Selection
- State
- Severity
- Event Type
- System Name
- Event Time
- Assigned To
- Comments
- System Type
- Rack Name
- Enclosure Name

Selection

Select the checkbox in this column to select an event. You can select more than one event. Select the checkbox in the column heading to select or deselect all displayed events.

State

This column displays whether the event is in the Cleared or Not Cleared state. Events start in the Not Cleared state. A Cleared state means the user is no longer interested in this event. Event states also include In Progress, indicating not all the data for the event has been logged. Events in an In Progress state cannot be removed or cleared. A restart of the HP SIM CMS moves any pending state events to Not Cleared.

Severity

This column displays the event status icon to indicate the severity of a problem represented by the event.

Event Type

This column displays the type of an event. Some examples are SNMP traps, login failures, or the replicate agent settings too. Select an event type from the list to view the **Event Details** section. The information displayed varies depending on the event. If you cannot see the entire event type in the column, place your cursor over this field, and a popup window is displayed that shows the entire event type name.

System Name

This column displays the name of the system on which the event occurred. Clicking a link in this column displays the **System Page** for the selected system.

When an event occurs that affects an entire rack or enclosure, it is possible for several systems in that rack or enclosure to generate a trap for that event. These container traps are filtered such that only one event is logged per rack or enclosure trap. Also, even though the source of the trap may be a blade server or management processor, HP Systems Insight Manager sets the **Event Source** and **Associated System** for the logged event to the rack or enclosure, as appropriate.

Event Time

This column displays the time stamp when the HP SIM CMS received this event, which includes the date and time. If the system is in a different time zone than the event time (CMS time), the event time is converted to the system time zone.

Assigned To

To assign responsibility for an event to a user, select the event, and click **Assign to** at the bottom of the page. The **Assign to** section appears, which enables you to select to assign a new assignee or use an existing assignee. If you select to use an existing assignee, you can only select one user name from the list. This name does not have to be a user with privileges on the system or a name that can be used to log into the CMS. This field is free-form text.

Comments

This column either displays any existing comments for this event or is blank if no comments have been entered. Comments are truncated in the column itself. Click the event type to view the entire comment if needed, or place your cursor over a comment field, causing a pop-up window that shows the entire comment to appear.

System Type

This column displays system types such as enclosure or rack.

Rack Name

This column displays the name of the rack.

Note:



This column displays when the system is a rack or enclosure.

Enclosure Name

This column displays the name of the enclosure.

Note:



This column displays when the system is a rack or enclosure.

Event Management Buttons

Five buttons at the bottom of the event table view page are available to users with full-configuration-rights only. These buttons might not appear depending on where you access this page from. For example, when creating a task and selecting targets, there are no buttons displayed, only the table or system names.

- **Clear.** This button is used to clear one or more events from the database. Select the events to clear, and click **Clear**.
- **Delete.** This button is used to delete one or more events from the database. Select the events to be deleted, and then click **Delete**. A dialog box appears. Click **OK** to continue with the deletion, or click **Cancel** to cancel the deletion.
- **Assign to.** This button is used to assign responsibility for events to a particular user.
- **Enter Comments.** Brings up a dialog box to enter comments for one or more events.
- **Print.** When the report is displayed, select **File->Print** from the browser menu to print the report.

Buttons are disabled if you do not have appropriate privileges. However, the print button is displayed for all users.

Related procedures

- Identity tab
- Performance tab
- Tools and Links tab

Related topics

- Overview

- System page

System page

The **System Page** is used to display information that is related to a specific system. This page displays:

- **Identity Tab.** Includes general system and status information. See “ Identity tab” for more information.
- **Tools & Links Tab.** Includes links to System Management pages, HP Systems Insight Manager pages, and other tools and information. See “ Tools and Links tab” for more information.
- **Events Tab.** Displays the event table view page for the system. See “ Event tab” for more information.
- **Performance Tab.** Includes general information about the performance of the system. See “ Performance tab” for more information.
- **Port Mapping Tab.** Displays port mappings for c-Class blades and switches. See “ PortMapping tab” for more information.

Note: This tab appears only for c-Class collections.

There are two ways to access the **System Page**:

- Click **Tools>System Information>System Page**. Then select target systems.
- Click the system name in the **System Name** column on the system table view page.

Related topics

- Identity tab
- Tools and Links tab
- Event tab
- Performance tab
- Overview

Identity tab

On the **Identity** tab, a status icon indicates the overall health status that is stored in the database. If a system is suspended, a disabled icon appears in place of the hardware status icon and software status icon. The **System Status** section contains more information on the system status.

The **Identity** page is divided into the following sections:

- System Status
- More Information
- Identification
- Product Description
- Contact Information
- Asset Information
- Management Processor
- Host Server
- Storage Server
- Associations

System Status

This section includes the following information:

- **Health Status.** The overall status for a system. It is obtained from Web-Based Enterprise Management (WBEM) SNMP, Desktop Management Interface (DMI), and the HTTP protocols with the most critical status displayed. A ping (ICMP or TCP reachable check) is always made. Click the **Health Status** link to access the System Management Homepage (SMH), if present. If the SMH is not present, the link accesses the **Property Page Status** page. If no option is available, the **Health Status** link is not present.
- **Management Processor Status.** The management processor status (if available) links to a web server on the management processor.
- **Software Status.** The software status icon links to the system software Version Control Agent if available.
- **Disabled Status.** A system that is suspended has a disabled icon in the **HW** and **SW** columns on the system table view page.
- **Vulnerability Status.** The vulnerability status of a system is the indicator summation of security and configuration weaknesses as determined by an external security scan of the system.

Note:



If a system is currently in a suspended mode, the **System Page** displays a disclaimer under **System Status**, stating Monitoring of the system is suspended until, and gives a date and time for monitoring to resume.

Partner applications might have their own status registered with the Central Management Server (CMS). If so, these statuses are displayed under **Health Status** and as status columns on the system table view page. For example, the **System Security Vulnerability Status** links to detailed information about the system status with regard to Vulnerability and Patch Management Pack.

More Information

This section provides more detailed information about the system and lists all system information tools available for the system. The following links are available:

- **System Management Homepage.** SMH is launched if available.
- **Property Page.** The **Property** pages are launched if available.
- **Partition Manager View.** The Partition Manager is launched if available.
- **Virtual Manager Host View.** The Virtual Manager Host View is launched if available.

Identification

This section is expanded whenever you access the **System Page** the first time.

Note:



This section can be expanded by clicking  or collapsed by clicking .

Important:



DMI identification is only supported on Windows and HP-UX-based Central Management Server (CMS) installs. In addition, only like operating systems can be identified. For example, Windows-based CMSs can identify Windows-based DMI, and HP-UX-based CMSs can only identify HP-UX-based DMI systems.

The items available in this section include:

- **Address.** The IP address, IPX address, or both that have been discovered for the system.
- **Preferred System Name.** The name shown for the system. When available, it defaults to the host name from DNS. You can override this setting through the **Edit System Properties** link under the **Tools & Links** tab.
- **Network Name.** The fully qualified DNS name, if available. Reverse DNS lookups by IP address must be enabled and match a forward lookup.
- **UUID.** A unique identifier from the agent or other instrumentation on the system.
- **Serial Number.** The serial number of the system.

Why is the system named "orphan_nnn"?

A system described as an orphan system is a system for which HP Systems Insight Manager (HP SIM) detects that both the IP address and name have been reallocated to another system. Occasionally, this reallocation can happen through simultaneous DHCP address assignment changes and a system rename. However, the most common cause is from using drive imaging software, such as Altiris. When imaging systems, a globally unique identifier is used by the Web Agents and HP SIM for identification purposes. On Windows systems, this problem can be avoided by deleting the registry key entry, `HKEY_LOCAL_MACHINE\Software\Compaq\CIMAgent\GUID`, from the registry before creating the image. For systems that have already been imaged, stop the foundation agents, remove the key, and restart the agents. A new discovery corrects the problem. Delete any old "ORPHAN" systems from the HP SIM system list.

Product Description

Note:



This section can be expanded by clicking  or collapsed by clicking .

This section includes the following information:

- **Product ID.** The identification number that, when added to the serial number of the server, enables HP Support to uniquely identify HP systems
- **System Type.** The basic system type returned from identification
- **System Subtype.** The system subtype returned from identification
- **Product Model.** The product model (name) as defined by the manufacturer
- **Hardware Description.** The description of the hardware obtained from the **Edit System Properties** page
- **OS Name.** The operating system name for the system used for filtering in operating system-based system collections
- **OS For Tool Filtering.** The short name of the operating system used for tool filter definition files
- **OS Description.** The detailed description of the operating system (for example, service pack information)
- **OS Version.** The numerical representation of the operating system version
- **Management Protocols.** The management protocols that have responded when attempting to identify the system

Note: If more protocols are expected, verify the credentials configured on the **System Protocol Settings** page.
- **Server Role.** The user-specified server role from the ProLiant agents that can be set from the System Management Homepage
- **Comments.** The user-specified comments from the SNMP or other agents
- **Current Running Applications.** A list of all applications currently running on the system

Contact Information

This section includes the following information:

- **Location.** A user-specified field from the agents for the physical location of the system
- **Contact.** The user-specified contact of the system from the agents

Note: Many of the fields in the contact and product description sections can be overridden locally on the CMS through the **Edit System Properties** pages.

Asset Information

This section includes **Asset Number**, which is the asset number of the system.

Management Processor

This section appears only if a management processor is available. It includes the following information:

- **Name.** The display name (Preferred Name) of the management processor used to manage the system
- **Address.** The IP address of the management processor used to manage the system
- **Model.** The model name of the management processor for this system

Host Server

This section includes the following information:

- **Name.** The host server name with a link to the host server System page
- **Slot.** The slot number of the host server
- **Model.** The product model of the host server

Storage Server

The following section includes the following information for servers that have a storage server associated:

- **Name.** The storage server name with a link to the storage server's System Page
- **Slot.** The slot number of the storage server System Page
- **Model.** The product model of the storage server

Associations

This section includes the following information:

- **Enclosure Name.** The name of the enclosure, if the system is in an enclosure (for example, a p-Class server blade)
- **Rack Name.** The name of the rack, if the enclosure is in a rack that could be discovered
- **Slot.** The slot number that the system is positioned within the enclosure
- **Server Dimensions.** The dimensions in millimeters of the system, if available

Related topics

- Overview
- Performance tab
- Event tab
- Tools and Links tab

Tools and Links tab

The system links that you can view depend on the Discovery configuration, the correct installation of agents and protocols, and the Polling Tasks that interrogate the system. The **Tools & Links** page includes:

- "System Management Pages"
- "System Web Application Pages"
- "HP Systems Insight Manager Pages"

System Management Pages

This section includes the links that are provided by the HTTP Web Management on the system. These links are for system management and status. If the system does not have Insight Management Agent, this section is not displayed. Some of the available links include:

- **HP Version Control Agent**
- **HP Version Control Repository Manager**
- **Insight Management Agent**

System Web Application Pages

This section includes a list of Web applications hosted by the system. Some of the available links include:

- **VMware Management Interface**
- **Default Web Server**
- **HP Systems Insight Manager**

HP Systems Insight Manager Pages

This section contains links that are generated by HP Systems Insight Manager. Some of the available links include:

- The **Data Collection Report** link displays the data collection report for the system in a separate report results window.
- The **System Protocol Settings** link points to the **Protocol Settings**, where you can set the protocol settings for this individual system only.
- The **Edit System Properties** link enables users with full-configuration-rights to re-configure some of the system properties for a single system through its system page. This link is not available if you do not have full-configuration-rights.
- The **Suspend/Resume Monitoring** link enables you to set the timer for suspending monitoring. This allows a system to be excluded from the status polling, identification, data collection, and the automatic event handling features of HP Systems Insight Manager. The available suspend lengths include the pre-determined increments of 5 minutes, 15 minutes, 1 hour and 1 day. The suspend feature can be turned on indefinitely. This link is only available to users with full-configuration-rights.

Related topics

- Overview
- System page
- Identity tab
- Performance tab
- Event tab

Event tab

The **Events** tab for c-Class racks or enclosures displays all current device events in the enclosure or rack in table view.

The event table view page is divided into the following sections:

1. Filter Criteria
2. Event Status Legend
3. Event Collection Columns
4. Event Details
5. Event Management Buttons

Rack View
STMonteroRack (Rack)

System(s) Events

All Blade Events

To view event details, make sure 'Event Type' column is displayed and click on desired link.

Summary: 0 Critical 0 Major 0 Minor 0 Warning 0 Normal 6 Informational Total: 6

State	Severity	Event Type	System Name	Event Time	Assigned To	Comments
<input type="checkbox"/> Not cleared	Informational	Discovered System	monterocmset1b3.americas.cpqcorp.net	4/25/06 4:35 PM		
<input type="checkbox"/> Not cleared	Informational	Discovered System	monterocmset1b6	4/25/06 4:35 PM		
<input type="checkbox"/> Not cleared	Informational	Discovered System	monterocmset1b8	4/25/06 4:35 PM		
<input type="checkbox"/> Not cleared	Informational	Discovered System	monterocmset1b9	4/25/06 4:35 PM		
<input type="checkbox"/> Not cleared	Informational	Discovered System	monterocmset1b2	4/25/06 4:35 PM		

Clear Delete Assign To... Enter Comment... Print

From this page, you can clear, delete, and assign events, enter comments on the event, and view printable reports.

Filter Criteria

The Event list can be filtered using the **Filter Criteria** dropdown list to view individual systems, such as blades, switches or Onboard Administrator events, separately or you can view all events.

To filter the Event list:

1. From the **Filter Criteria** dropdown list, select a criteria:

- **All Onboard Administrator Events.** Events that are reported by all Onboard Administrators included in the selected rack or enclosure. This option is only available for c-Class racks or enclosures.
- **All Blade Events.** Events that are reported by all blades included in the selected rack or enclosure. This option is available for e-Class enclosures as well as p-Class and c-Class racks or enclosures.
- **All Switch Events.** Events that are reported by all switches included in the selected rack or enclosure. This option is available for p-Class and c-Class racks or enclosures.
- **All Events.** Events that are exposed by all devices in the selected rack or enclosure. This option is available for p-Class and c-Class racks or enclosures.

2. The filtered Event list appears.

Event Status Legend

The legend shows how many events in the view are Critical, Major, Minor, Normal, and Informational.

Event Details

The event collection can be displayed by clicking:

- An event collection from the **Systems and Events** panel
- An event status icon in the **System Status** panel
- The **All Events Associated with this System** link from the **System Page**
- A private event collection
- A hyperlink in the **Uncleared Events** section on the **System Overview** page

Event collections are filtered based on authorizations. Users can only view events on systems for which they have the appropriate authorization.

When HP Storage Essentials is installed, a link in this section allows you to view the corresponding event details in HP Storage Essentials.

Event Collection Columns

Sort collection results by a particular column, click the column header for ascending or descending order. Place your cursor over a column name for a brief description of the column.

The following columns are displayed:

- Selection
- State
- Severity
- Event Type
- System Name
- Event Time

- Assigned To
- Comments
- System Type
- Rack Name
- Enclosure Name

Selection

Select the checkbox in this column to select an event. You can select more than one event. Select the checkbox in the column heading to select or deselect all displayed events.

State

This column displays whether the event is in the Cleared or Not Cleared state. Events start in the Not Cleared state. A Cleared state means the user is no longer interested in this event. Event states also include In Progress, indicating not all the data for the event has been logged. Events in an In Progress state cannot be removed or cleared. A restart of the HP SIM CMS moves any pending state events to Not Cleared.

Severity

This column displays the event status icon to indicate the severity of a problem represented by the event.

Event Type

This column displays the type of an event. Some examples are SNMP traps, login failures, or the replicate agent settings too. Select an event type from the list to view the **Event Details** section. The information displayed varies depending on the event. If you cannot see the entire event type in the column, place your cursor over this field, and a popup window is displayed that shows the entire event type name.

System Name

This column displays the name of the system on which the event occurred. Clicking a link in this column displays the **System Page** for the selected system.

When an event occurs that affects an entire rack or enclosure, it is possible for several systems in that rack or enclosure to generate a trap for that event. These container traps are filtered such that only one event is logged per rack or enclosure trap. Also, even though the source of the trap may be a blade server or management processor, HP Systems Insight Manager sets the **Event Source** and **Associated System** for the logged event to the rack or enclosure, as appropriate.

Event Time

This column displays the time stamp when the HP SIM CMS received this event, which includes the date and time. If the system is in a different time zone than the event time (CMS time), the event time is converted to the system time zone.

Assigned To

To assign responsibility for an event to a user, select the event, and click **Assign to** at the bottom of the page. The **Assign to** section appears, which enables you to select to assign a new assignee

or use an existing assignee. If you select to use an existing assignee, you can only select one user name from the list. This name does not have to be a user with privileges on the system or a name that can be used to log into the CMS. This field is free-form text.

Comments

This column either displays any existing comments for this event or is blank if no comments have been entered. Comments are truncated in the column itself. Click the event type to view the entire comment if needed, or place your cursor over a comment field, causing a pop-up window that shows the entire comment to appear.

System Type

This column displays system types such as enclosure or rack.

Rack Name

This column displays the name of the rack.

Note:



This column displays when the system is a rack or enclosure.

Enclosure Name

This column displays the name of the enclosure.

Note:



This column displays when the system is a rack or enclosure.

Event Management Buttons

Five buttons at the bottom of the event table view page are available to users with full-configuration-rights only. These buttons might not appear depending on where you access this page from. For example, when creating a task and selecting targets, there are no buttons displayed, only the table or system names.

- **Clear.** This button is used to clear one or more events from the database. Select the events to clear, and click **Clear**.
- **Delete.** This button is used to delete one or more events from the database. Select the events to be deleted, and then click **Delete**. A dialog box appears. Click **OK** to continue with the deletion, or click **Cancel** to cancel the deletion.

- **Assign to.** This button is used to assign responsibility for events to a particular user.
- **Enter Comments.** Brings up a dialog box to enter comments for one or more events.
- **Print.** When the report is displayed, select **File->Print** from the browser menu to print the report.

Buttons are disabled if you do not have appropriate privileges. However, the print button is displayed for all users.

Related procedures

- Identity tab
- Performance tab
- Tools and Links tab

Related topics

- Overview
- System page

Performance tab

The Performance tab displays information about selected blade performance.

Note:



The **Performance** tab is displayed for bare metal blades with ILO firmware greater than 1.70.

The Performance tab includes the following information:

- **Last Update link.** Displays the current time.
 - Note:** This reflects the Central Management Server time and not the client time.
- **Processor**
 - **Processor Index.** Displays the processor index number.
 - **Processor Utilization.** Displays the processor utilization.
- **Logical Disk**
 - **Name.** Displays the name of the logical disk.
 - **Size (MB).** Displays the size of the logical disk in megabytes.
 - **Usage (%).** Displays the percentage of disk space used.
- **Physical Memory**
 - **Size (MB).** Displays the size of the physical memory in megabytes.
 - **Free (MB).** Displays the size of free physical memory in megabytes.
 - **Paging Size (MB).** Displays the paging size in megabytes.
 - **Paging Free (MB).** Displays the amount of free paging in megabytes.

- **Server Fan**

Note: The **Server Fan** section displays for all p-Class, e-Class and c-Class blades.

- **Index.** Displays the index number.
- **Locale.** Displays the locale.
- **Redundant Partner.** Displays the number of the redundant partner.
- **Speed.** Displays the status of the server fan.
- **Condition.** Displays the condition of the server fan.
- **Hot Plug.** Displays the type of hot plug.

- **Temperature**

- **Index.** Displays the index number.
- **Locale.** Displays the locale.
- **Celsius (C).** Displays the temperature in Celsius.
- **Threshold (C).** Displays the threshold number.
- **Condition.** Displays the condition status.
- **Threshold Type.** Displays the threshold type status.

- **Performance Management**

Note: The **Performance Management** section is not displayed for c-Class blades.

Note: if the device is licensed for HP ProLiant Essentials Performance Management Pack, this section displays the PMP links. Otherwise, this section displays **Learn about PMP** which is a link to the HP ProLiant Essentials Performance Management Pack home page.

- **Learn about PMP....** Displays a link to the HP ProLiant Essentials Performance Management Pack home page.

Related topics

- Overview
- System page

PortMapping tab

The **PortMapping** tab displays only for c-Class blades and switches.

The PortMapping tab includes the following information:

- Last Update link

Note: This reflects the Central Management Server time and not the client time.

- For blades:
 - **Mezz Slot.** Displays the Mezz slot number.
 - **Mezz Device.** Displays the Mezz device name or **No card present.**
 - **Mezz Device port.** Displays the Mezz device port name or number.
 - **Port Status.** Displays the status of the port.
 - **Interconnect Bay.** Displays the bay number.
 - **Interconnect Bay Port.** Displays the bay port number.
 - **Device ID.** Displays the device identification number.

- **Interface Name.** Displays the name of the operating system.
- For switches:
 - **Interconnect Bay Port.** Displays the bay port number.
 - **Port Status.** Indicates the status of the port.
 - **Server Bay.** Displays the server bay.
 - **Mezz Port.** Displays the Mezz port number.
- **For more details on the switch port mapping for this system, click here to access the Onboard Administrator.** Click **Onboard Administrator** to display the Onboard Administrator Home page.

Related topics

- Overview
- System page

Onboard Administrator links

Note:



The SSO link to Onboard Administrator works only if the certificate has not expired. You can verify the certificate expiration by accessing HP SIM Integration at the end of the tree in the Onboard Administrator screen, and check the **Valid From** and **Valid Until** fields in the SSO certificate details. This must be in sync with the HP SIM Central Management Server time.

Note:



Onboard Administrator links are supported only in English on Internet Explorer 6.0 and FireFox 1.5.

To configure Onboard Administrator so the Onboard Administrator links work correctly, perform the following:

1. Launch a Telnet session to Onboard Administrator:

Telnet <OA-IP>

2. Log into the CLI using your user name and password
3. Set the SSO trust to **on**.
4. Download SSO:

<CMS-Server-IpAddress>

- If the SSO certificates are exceeded, you can delete the unwanted SSO certificates from the Onboard Administrator web interface as follows:
 - i. Log into the Onboard Administrator web interface.
 - ii. Click the HP SIM Integration at the end of the tree in the left pane.
 - iii. Delete the unwanted SSO certificates.

Related topics

- System(s) tab

Glossary

blade server	A server that is located in a rack or enclosure. See Also enclosure, racks.
Central Management Server (CMS)	A system in the management domain that executes the HP SIM software. All central operations within HP SIM are initiated from this system.
collections	The method for grouping system or event searches.
container	A rack or an enclosure is considered a container. See Also enclosure, racks.
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.
full-configuration-rights user	A user who is automatically authorized for the All Tools toolbox on all systems, including the CMS. This type of user has been

	given special privileges to administer the HP Systems Insight Manager software.
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.
health status	<p>Health status is an aggregate status all of the status sources (which can be SNMP, WBEM, DMI, and HTTP) with the most critical status being displayed.</p> <p>See Also system health status.</p>
HP Systems Insight Manager database (database)	The database that stores vital information about HP Systems Insight Manager, including users, systems, and toolboxes.
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.
Onboard Administrator	The Onboard Administrator is the central point for controlling an entire c-Class rack. It offers configuration, power, and administrative control over the rack, and its associated blades (Compute Servers), blade management processors (iLOs), network switches (depending on the models of switches used) and storage components (such as SAN or SATA). The Onboard Administrator is a single management processor, with shared resources to an optional backup twin processor for failover.

racks	A set of components cabled together to communicate between themselves. A rack is a container for an enclosure.
server blade	Typically a very dense server system containing microprocessors, memory, and network connections that can be easily inserted into a rack-mountable enclosure to share power supplies, fans, switches, and other components with other server blades. Server blades tend to be more cost-efficient, faster to deploy, and easier to adapt to growth and change than traditional rack-mounted or tower servers. See Also enclosure, racks.
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.
system health status	<p>This is aggregate status all of the status sources (which can be SNMP, WBEM, DMI, and HTTP) that are supported on a target system, with the most critical status being displayed. The following are the different system health statuses that can be displayed:</p> <ul style="list-style-type: none"> ● Critical. HP SIM 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 an HP Insight Management Agent, 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 Agent, some component has failed but the system is still functioning. ● Warning. The system has a potential problem or is in a state that might become a problem. ● Normal. The system is functioning correctly. ● Disabled. The system is disabled from monitoring but is not necessarily turned off. ● Unknown. HP SIM cannot obtain management information about the system. ● Informational. The system might be in a transitional or non-error state.
uncleared event status	Events that have a Critical, Major, Minor, Normal, or Informational severity.

- **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 VCA can be configured to point to a VCRM agent, enabling easy version comparison and software update from the repository.

Web-Based Enterprise Management (WBEM)

An Industry initiative to provide management of systems, networks, users, and applications across multiple vendor environments. WBEM simplifies system management, providing better access to both software and hardware data that is readable by WBEM compliant applications.

Index

A

accessing
 HP BladeSystem Integrated Manager, 6

B

blade, 18, 20, 35, 47, 51–52
 rack view, 21

C

c-Class Enclosure, 30
c-Class Rack, 23
CCI blade PC, 29
copyright, 4

E

e-Class Enclosure, 29
e-Class server blade, 29
enclosure, 18, 20, 35, 47, 51–52
enclosure overview, 20
Enclosure view, 24
enclosure view, 18
event tab, 47
event table view page, 41
events tab, 35

H

HP BladeSystem Integrated Manager in HP Systems
Insight Manager
 accessing, 6

I

icon view, 6, 11
identity tab, 41
Integrated Administrator, 29
interconnect switch, 29

L

legal notices, 4

N

navigating, 51–52
 event table view page, 35, 47

O

Onboard Administrator
 single sign on, 54

P

p-Class Enclosure, 29
p-Class Rack, 22
Performance tab, 51
picture view, 18
picture view page, 18, 20
PortMapping tab, 52

R

rack, 18, 35, 47, 51–52
rack overview, 20
rack view, 18, 21, 31
release history, 4

S

search criteria, 20
server
 identity tab, 41
 system tab, 31
single sign on
 Onboard Administrator, 54
system page, 18, 41
 event, 41
 identity, 41
 links, 41
 tools and links, 46
system tab, 31
system table view page, 18, 20, 41

T

table view, 6, 12
trademarks, 4
tree view, 6–7

V

Virtual Connect Manager, 31

W

warranty, 4
what's new, 6