

HP BladeSystem Integrated Manager in HP Systems Insight Manager 5.1

Printed in the US
HP Part Number: 381270-009
Published: September 2007
Edition: 9



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Revision History

Revision History	
Revision Version 3.1	September 2007
MPN: 381270-009. Version 3.1 adds new product functionality and features.	
Revision Version 3.0	May 2007
MPN: 381270-008. Version 3.0 adds new product functionality and features.	
Revision Version 2.4	March 2007
MPN: 381270-007. Version 2.4 adds new product functionality and features.	
Revision Version 2.3	January 2007
MPN: 381270-006. Version 2.3 adds new product functionality and features.	
Revision Version 2.2	September 2006
MPN: 381270-005. Version 2.2 added new product functionality and features.	
Revision Version 2.1	May 2006

MPN: 381270-004. Version 2.1 added new product functionality and features.
Revision Version 1.3 July 2005

2 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 3.1

- Added support for c-class AiO SB600c storage solution.
- Support for Virtual Connect Domains.
This support is enabled through VC firmware 1.20 version.
- Support for changing the rack heights while editing a rack.
In previous versions, you could specify the height of a rack only when you create a rack. With this version, you can change the height of a rack even when you are editing a rack.
- Added health monitoring for c-class logical nodes (servers and switches).
In previous versions, the health status information was available only for physical servers. Health monitoring for logical servers and switches was disabled.

Related procedures

- [HP BladeSystem page](#)
- [Viewing p-Class enclosures](#)
- [Viewing c-Class enclosures](#)

Related topics

- [Navigating the tree view page](#)
- [Navigating the table view page](#)
- [Navigating the icon view page](#)
- [Navigating the picture view page](#)

HP BladeSystem page

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

- All p-Class enclosures 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 enclosures for c-Class components including c-Class blades, switches, c-Class enclosures, Onboard Administrator

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

Related procedures

- Viewing p-Class enclosures
- Viewing e-Class enclosures
- Viewing c-Class enclosures
- Onboard Administrator links

Related topics

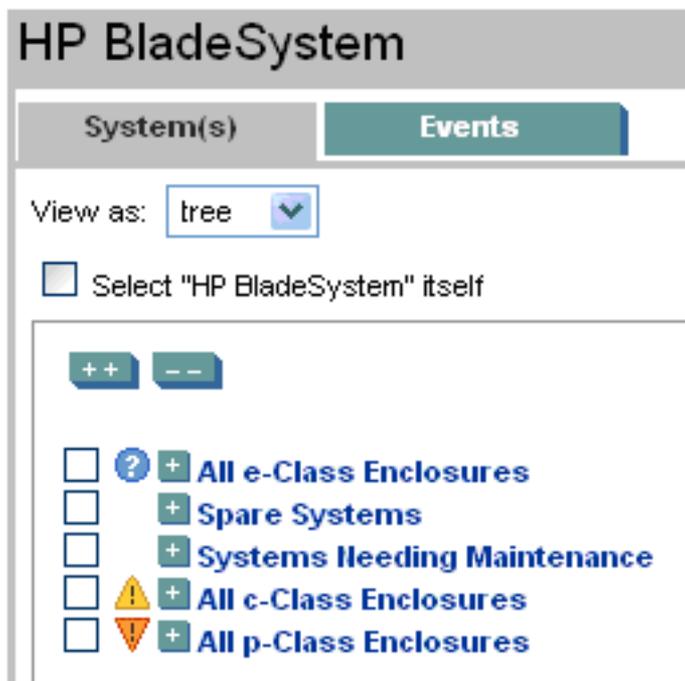
- Navigating the tree view page
- Navigating the table view page
- Navigating the icon view page
- Navigating the picture view page

Navigating the tree view page

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 As Collection.** 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**.

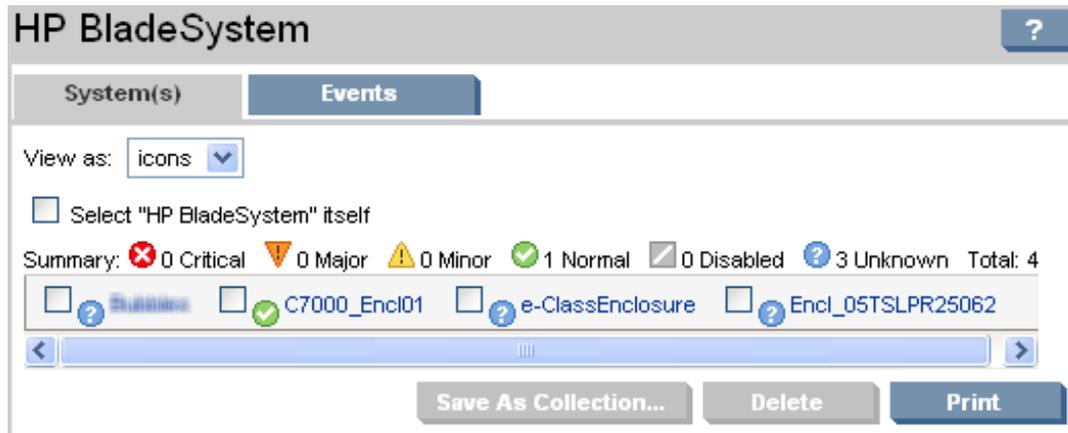
Print is available regardless of your rights, however the other options are only enabled if you have appropriate rights.

Related topics

- [Overview](#)
- [HP BladeSystem page](#)
- [Navigating the icon view page](#)
- [Navigating the table view page](#)

Navigating the icon view page

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](#)
- [Navigating the tree view page](#)
- [Navigating the table view page](#)

Navigating the table view page

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>.

<input type="checkbox"/>	HS	MP	SW	PF	VPM	VM	ES	System Name	System Type	System Address	Product Name
<input type="checkbox"/>								M@brooks in VC domain M@brooks_vc_domain	Enclosure		Server
<input type="checkbox"/>								USE6281BK9 in Rack CclassRacl	Enclosure		Server

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
- HP ProLiant Essentials Performance Management 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

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 Toptools for Servers** page displays. If the system does not have Web Agents or Instant Toptools 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*.

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 As Collection.** 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
- Navigating the icon view page
- Navigating the tree view page

Navigating the picture view page

The **Picture View** page displays a consolidated picture of all discovered racks and enclosures included in the All Racks, All c-Class Enclosures, All e-Class Enclosures and All p-Class Enclosures collections. To access

the picture view, navigate to **All e-Class Enclosures** and select an enclosure. The enclosure appears in picture view by default.



NOTE: The **HP BladeSystem** collection does not provide the picture view option.

Rack_2 (Rack)

System(s) Events

Updated: Wed, 5/2/2007, 12:36 PM IST

View as: picture

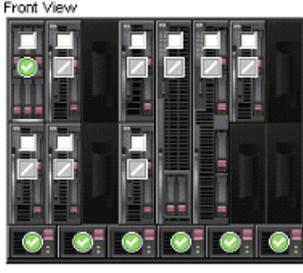
Select All Blades All Interconnect Switches All OnboardAdministrators All Enclosures

Rack_2 (42U)

Data Center ID:	CEN 1002	Data Center Location:	LOC B002
Row Number:	1	Position in Row:	1

USE6281BK9 (33U - 42U)

Front View



Rear View



Enclosure Name	USE6281BK9
Serial Number	USE6281BK9
UUID	09USE6281BK9
Unit ID (LED)	ON
Onboard Administrator	c7000-oa-2
Health Status	
Power Redundancy	AC Redundant
Fan Redundancy	Redundant

Edit Rack Save As Collection... Delete Print

Viewing details

To view details about p-Class, e-Class, or c-Class systems that support SNMP or HTTP, position your cursor over the system and a tool tip displays.



NOTE: If the system does not support SNMP or HTTP query, **Not Available** appears.

Tool tips are available for the following:

- p-Class servers
- p-Class switches
- c-Class servers
- c-Class switches
- e-Class servers
- e-Class switches
- Bare metal blades

p-Class servers

The picture view tool tip displays the following information for servers:

- Bay
- Name
- IP Address
- Serial Number
- Model
- Operating System
- System ROM Version
- Insight Management Version

- Management Processor IP
- Management Processor Firmware Version
- The following details appear in the tool tip if the blade is hosting Virtual Machines:
 - VM Host Environment

Note: VM Host Environment details are shown for Virtual Machine Hosts running the following operating systems:

 - VMWare ESX
 - VMWare GSX
 - Microsoft Virtual Server (MSVS)
 - HPVMs for HP-UX
 - VM Guest Count

p-Class switches

The picture view tool tip displays the following information for switches:

- Bay
- Name
- IP Address
- Serial Number
- Model
- Firmware Version

c-Class servers

The picture view tool tip displays the following information for c-Class servers:



NOTE: Mezzanine system information is displayed only for c-Class servers. For p-Class or e-Class systems, the Mezzanine slot labels are not shown.

- Bay
- Name
- IP Address
- Serial Number
- Model
- Operating System
- System ROM Version
- Insight Management Version
- Management Processor IP
- Management Processor Firmware Version
- Mezzanine Slot X

Note: The X refers to the slot number of the Mezzanine card. If the c-Class server does not have any Mezzanine cards, this option is not shown.

- Partner Device

Note:The **Partner Device** tool tip appears if a c-Class blade is associated with a storage device:

From this release onwards, HP ProLiant BL680c servers are also supported.

c-Class switches

The picture view tool tip displays the following information for c-Class switches:



NOTE: The c-Class tool tip does not display the **Firmware Version**. Instead, it displays the **Media Type**. The tool tip does display the **Running Status** for Virtual Connect Ethernet switches.

- Bay
- Name
- IP Address
- Serial Number
- Model
- Media Type

e-Class servers

The picture view tool tip displays the following information for e-Class servers:



NOTE: The e-Class server and desktop tool tip shows only the information listed below.

- Bay
- Name
- IP Address
- Serial Number
- Model
- Operating System

e-Class switches

The picture view tool tip displays the following information for e-Class switches:

- Name
- IP Address
- Serial Number
- Model

Bare metal blades

The picture view tool tip displays the following information for bare metal blades:



NOTE: The bare metal blade tool tip shows only the information listed below. Any information in addition to the items listed are displayed as **Not Available**.



NOTE: If a server is discovered by enabling **Automatically discover a blade server when its Integrated Lights-Out Management processor is identified**, the only items displayed are **Management Processor Version** and **ROM Version**.

- Bay
- Name
- Serial Number
- Model
- System ROM Version

- [Management Processor IP](#)
- [Management Processor Firmware](#)

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](#)
- [Navigating the icon view page](#)
- [Navigating the tree view page](#)

3 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 represents the actual physical rack as it appears in the lab, and you can create it manually in HP BladeSystem Integrated Manager. See “Viewing enclosures” for more information. 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 and bc2000/bc2500 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 and c3000 Enclosures, HP ProLiant BL c-Class server blades, network interconnect components, Onboard Administrator, and management tools that enable adaptive computing, optimized for rapid deployment.



IMPORTANT: When upgrading from HP BladeSystem Integrated Manager 2.3 or earlier to HP BladeSystem Integrated Manager 3.0 or later, any user-defined collections relating to the All p-Class racks or All c-Class racks are lost. After upgrading, the default All c-Class racks and All p-Class racks collections appear in the **All Racks** collection provided that the devices are not re-identified.

Rack and enclosure collections

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

There are two specific search criteria for 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.



NOTE: The picture view for a c-class enclosure is enhanced to display a link to access the virtual domain.

Related procedures

- Viewing e-Class enclosures
- Viewing c-Class enclosures
- Viewing p-Class enclosures

Related topics

- Navigating the System(s) tab
- Navigating the Events tab
- Overview
- HP BladeSystem page
- Navigating the picture view page
- Navigating the tree view page

Viewing racks

To view a rack that you created, click **All Racks** from the **System and Event Collections** panel. All of the racks that you created are listed. Select the rack that you want to view additional details. By default, the picture view of the rack is displayed. The picture view of the rack also distinguishes the blades that are running Virtual Machines (VMs) on them. When you move your mouse over the image of the rack, these details are displayed. In addition, it also displays the number of VMs that are running.



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.

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

- “Navigating the System(s) tab”

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

- “Navigating the Events tab”

Related procedures

- Viewing p-Class enclosures
- Viewing c-Class enclosures
- Viewing e-Class enclosures
- Onboard Administrator links

Related topics

- Overview
- HP BladeSystem page
- Viewing enclosures

- Navigating the tree view page
- Navigating the table view page
- Navigating the icon view page
- Navigating the picture view page

Viewing enclosures

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.

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

- Servers, desktops and workstation blades
- Interconnect modules
- Power supply enclosure
Note: Provided for p-Class only.
- Onboard Administrator, fans, and power units
Note: Provided for c-Class only.

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:

- 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. You can click **Printable Enclosure Details** to display a printable table that includes the following enclosure details:
 - Bay
 - System Name
 - IP Address
 - Model
 - Firmware Version
 - Role

The following details are shown for the Onboard Administrators:

- Bay
- System Name
- IP Address
- Model
- Firmware Version
- Role

The following details are shown for servers:

- Bay
- System Name
- IP Address

- Model
- Management Processor IP
- Management Processor Firmware Version
- Insight Management Agent Version
- System ROM Version
- Operating System
- **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 appears 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.
 - Note:** This option appears only when a Virtual Connect is available.
- **VCM Domain Name.** Displays the VCM domain name. Click the domain name to view the System page of the VC Domain.
- **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.



NOTE: From this page, you can also view the enclosure details in a separate window. Select the enclosure name on the page and click **Printable Enclosure** details. A new window displays the details of the enclosure.

- **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 As Collection.** 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.

Creating a rack

When HP Systems Insight Manager (HP SIM) discovers devices, it only displays enclosures. From the picture view of the enclosure, you can add it to a rack. The racks that you created in the previous release are all available under the **All Racks** option. You can add the enclosure to these previously created racks or you can create new racks and add enclosures to it. After you create these racks, they are listed under the **All Racks** option. The options All p-class Racks and All e-Class Racks options are no longer available.

To create a rack:

You can create a rack only from the picture view of an enclosure. You can add the enclosure to an existing rack, or you can create a rack and add the enclosure to it.

1. To access the picture view, navigate to **All e-Class Enclosures**, **All c-Class Enclosures** or **All p-Class Enclosures**.

2. Click an enclosure. The enclosure picture view appears.

Note: In an enclosure under the **Identification** section, if the Rack name displays **Not Available** then the enclosure is not included in any rack.

3. To add the enclosure to a new rack, click **Add Enclosure to a rack**. The **Add to rack** dropdown list appears.

Note: This option is only available if an enclosure is not associated with a rack.

4. Select **Add to new rack** from the **Add to Rack** dropdown list and click **GO**. The **Edit Rack** page appears. When a new rack is created from an enclosure view, the enclosure is automatically added to the **Selected enclosures** section.

Note: The **Add to Rack** dropdown list also lists the racks that were previously created. To add an enclosure to an existing rack, select the rack name and click **GO**.

*Required field **

User defined rack name * : 42 U

Data Centre ID: Data Centre Location:

Row Number : Position in Row :

Available enclosures

Filter by Enclosure name

- Encl_09USE644285C (c-class)
- Encl_09USE6442859 (c-class)
- C7000_Enclaaa (c-class) in **cauvery**
- BLEnclosureG2-3 (p-class) in **cauvery**
- Encl_07EA0RMJS144 (p-class) in **cauvery**
- Encl_03EA0WJTK544 (p-class) in **cauvery**
- Business** (p-class) in **cauvery**
- Encl_05TSLPR25062 (p-class)

Selected Enclosures

5. To create a rack, you must add the following details:
 - **Rack Name.** Enter a name for the new rack and select the rack type from the dropdown list. This is a required field.
 - **Rack Height.** Enter the height of the new rack.
 - **Data Centre ID.** Select the height of the rack from the dropdown list.
 - **Data Centre Location** Enter the data centre location.
 - **Row Number.** Enter the row number where the enclosure is located.
 - **Position in Row.** Enter the position in the row where the enclosure is located.

Note: If you are adding an enclosure to an existing rack, these details are automatically populated.
6. From the **Available Enclosures** dropdown list, select the filter by which you want to view the list of enclosures. You can select **All Enclosures** or **Class**. You can filter the collection by entering a class. For example, if you enter *p-Class*, then all p-Class enclosures are available to be added to the rack.
7. Select one or more of the relevant enclosures and click the >> symbol to add them to the rack. You can click << to remove enclosures from the rack. You can also drag and drop the enclosure in the desired position within the rack.

Note: indicates enclosures which are daisy chained.
8. Click **Save**. The enclosure is added to the rack and the picture of the new rack with the added enclosure appears. If an enclosure has already been added to another rack, a message appears indicating the enclosure is already assigned to another rack. You can confirm your intention to remove the enclosure from the existing rack and it is added to the new rack. You can click **Cancel** to discard the rack and close the window.

Editing a rack

From the picture view of a rack, you can edit the rack to add or remove enclosures.

To edit a rack:

1. To access the picture view, navigate to **All Racks** and select the rack to be edited and click **Edit Rack**. The **Rack View** page appears.
Note: The rack can be edited and deleted only from the picture view.
2. To edit a rack, you can change any of the following details:
 - **Rack Name.** Enter a name for the new rack and select the rack type from the dropdown list.
 - **Rack Height.** Enter the height of the rack.
 - **Data Centre ID.** Enter the data centre ID.
 - **Data Centre Location** Enter the data centre location.
 - **Row Number.** Enter the row number where the enclosure is located.
 - **Position in Row.** Enter the position in the row where the enclosure is located.
3. From the **Available Enclosures** dropdown list, select the filter by which you want to view the list of enclosures. You can select **All Enclosures** or **Class**.
4. Select one or more of the relevant enclosures and click the >> symbol to add them to the rack. You can click << to remove enclosures from the rack.
Note:  indicates enclosures which are daisy chained.
5. Click **Save**. The enclosure is added to the rack and the picture of the new rack with the added enclosure appears. If an enclosure has already been added to another rack, a message appears indicating the enclosure is already assigned to another rack. You can confirm your intention to remove the enclosure from the existing rack and it is added to the new rack.

Saving an Onboard Administrator configuration

You can save the current settings of a c-Class enclosure as a configuration script. After you save this configuration file, you can always upload this configuration script using the Onboard Administrator to revert to the previous settings of the enclosure. When you save a configuration file, you must provide a file name that is unique to that enclosure. Also, you can save multiple configuration scripts for a single c-Class enclosure.

To save a c-Class enclosure configuration:

1. From the **Tools and Links** page of the Onboard Administrator, click **Save/Restore Configuration of Onboard Administrator**.
Note: You can access this option from **Save or Restore Onboard Administrator settings** in the **Configure** section.
2. Enter the user name and password for the Onboard Administrator. The **Save/Restore Configuration Script** page appears.
3. Enter a unique name for the configuration script and click **Save**. The name must meet the following conditions:
 - Alphanumeric and can contain special characters such as underscores and periods.
 - Must start with an alphabet character.

The configuration script is listed in the **Restore Configuration** section.

Restoring an Onboard Administrator configuration

You can restore the previous settings of an enclosure by selecting the respective configuration script that you had saved earlier.

To restore a c-Class enclosure configuration:

1. From the **Tools and Links** page of the enclosure, click **Save/Restore Configuration of Onboard Administrator**.
2. Enter the user name and password for the Onboard Administrator. The **Save/Restore Configuration Script** page appears.

3. In the **Restore Configuration** section, select the file that includes the configuration settings that you want to restore.
4. Click **Restore**. The settings of the enclosure are restored.

Deleting a configuration script

You can delete a configuration script.

To delete a c-Class enclosure configuration:

1. From the **Tools and Links** page of the enclosure, click **Save restore OA configuration** and select the configuration script to be deleted and click **Delete**.

Note: You can select multiple configurations and delete them simultaneously.

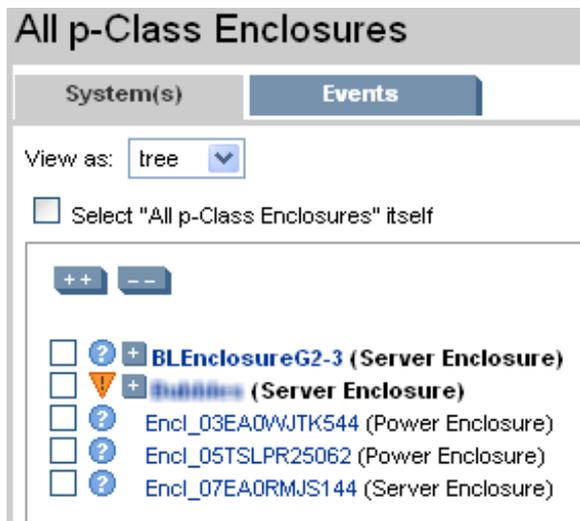
2. Click **Back** from the browser to navigate to the **Tools/Links** page of the Onboard Administrator.

Related topics

- [Overview](#)
- [HP BladeSystem page](#)
- [Viewing e-Class enclosures](#)
- [Navigating the tree view page](#)

Viewing 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 Enclosures**. The p-Class 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.
5. To change the view from the tree view default, select **table** or **icons** from the **View as** dropdown list. The page reappears displaying the new view.

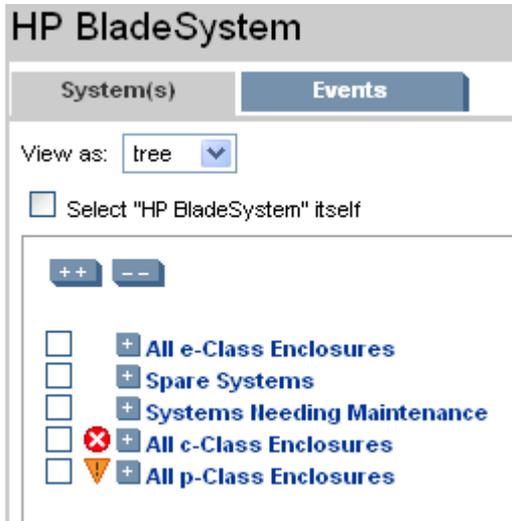
Related topics

- [Overview](#)
- [HP BladeSystem page](#)

- Navigating the tree view page
- Viewing p-Class enclosures

Viewing 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:

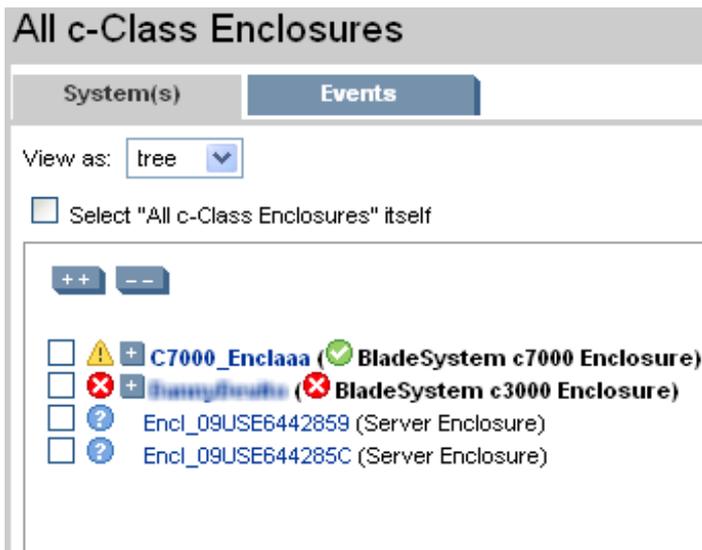
1. From the HP Systems Insight Manager Home page, expand the **HP BladeSystem** collection in the **Systems and Events** panel.
2. Expand the **All e-Class Enclosures** collection. The **All e-Class Enclosures** tree expands.
3. Click the enclosure name that you want to view. The enclosure appears in the **Enclosure View** page.
4. To change the view from the tree view default, select **table** or **icons** from the **View as** dropdown list. The page reappears displaying the new view.

Related topics

- Overview
- HP BladeSystem page
- Navigating the tree view page
- Viewing e-Class enclosures

Viewing c-Class enclosures

c-Class collections consist of the HP BladeSystem c7000 and c3000 Enclosures, 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 and enclosures appear.



NOTE: In addition to displaying details such as servers, storage, the picture view of the c-class enclosures also shows the PCI expansion blade that is associated with the enclosure.

2. Click on the enclosure that you want to view. The **Enclosure View** page appears.
3. To change the view from the tree view default, select **table** or **icons** from the **View as** dropdown list. The page reappears displaying the new view.

To view a c3000 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 and enclosures appear.
2. Click on the enclosure that you want to view. The **Enclosure View** page appears.
3. To change the view from the tree view default, select **table** or **icons** from the **View as** dropdown list. The page reappears displaying the new view.





NOTE: The c3000 class enclosures are supported by the Onboard Administrator with the firmware version 2.00.

NOTE: Redundant Onboard Administrator is not supported in c3000 enclosure

NOTE: If the enclosure is managed by Virtual Connect Manager, the picture view also displays the Virtual Connect Domain name and the IP address.

Related topics

- [Overview](#)
- [HP BladeSystem page](#)
- [Navigating the tree view page](#)
- [Viewing c-Class enclosures](#)

Navigating the System(s) tab

The picture view page for racks and enclosures contains a picture view 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 component name to display detailed information about the component. The **System Page** appears.

Tools ▾ Deploy ▾ Configure ▾ Diagnose ▾ Optimize ▾ Reports ▾ Tasks & Logs ▾ Options ▾ Help ▾ Debug ▾

Rack_1 (Rack)

System(s) **Events**

Updated: Thu, 4/5/2007, 5:51 PM IST

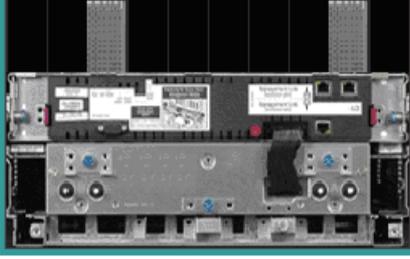
View as:

Select All Blades All Interconnect Switches All Onboard Administrators All Enclosures

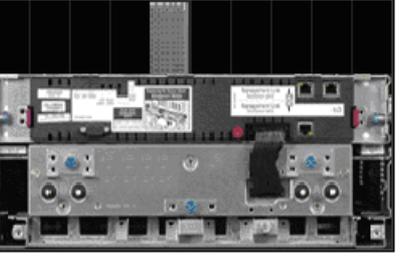
Rack_1

Data Centre ID : C001 **Data Centre Location :** Loc 200
Row Number : 3 **Position in Row :** 3

CMSEnclosure (37U - 42U)

<p>Front View</p> 	<p>Rear View</p> 	<p>Enclosure Name CMSEnclosure Serial Number EA0PMJS144 UUID 07EA0PMJS144 Firmware Revision 2.30 Power Zone 3 Unit ID (LED) Off Temperature C/F 51 / 123.8 Health Status </p>
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ManagedEnclosure (31U - 36U)

<p>Front View</p> 	<p>Rear View</p> 	<p>Enclosure Name ManagedEnclosure Serial Number EA0RMJS144 UUID 07EA0RMJS144 Firmware Revision Not Available Power Zone Not Available Unit ID (LED) Not Available Temperature C/F Not Available Health Status </p>
--	--	---

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

- **Rack name in header.** Displays the name of the rack.
- **Updated: (Timestamp).** Automatically refreshes and displays the last updated timestamp.
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 “Navigating the table view page” for more information.
 - **Tree.** See “Navigating the tree view page” for more information.
 - **Icons.** See “Navigating the icon view page” for more information.
 - **Picture.** See “Navigating the picture view page” for more information.
- **Multi-select checkboxes.** Select the device type based on the following:
 - All Blades
 - All Interconnect Switches

- All Onboard Administrators
- All Enclosures
- **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.
 - **Health Status.** Indicates the health status of the enclosure.
 - **Data Center ID.** Indicates the identification number of the data center which the rack is part of.
 - **Data Center Location.** Indicates the location of the data center which the rack is part of.
 - **Row Number.** Indicates the row number of the rack.
 - **Position in Row.** Indicates the position of the rack in the row.

The details such as Data Center ID, Data Center Location, Row Number and Position in Row are visible only when you create a new rack or when you edit an existing rack.

The following details are shown for only c-Class enclosures:

- *Onboard Administrator.* Displays a link to the Onboard Administrator home page.
- **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. Click the domain name to view the Systems page for the VC Domain.
- **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 p-Class collections.



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 As Collection.** 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

- Viewing racks
- Overview
- Navigating the Performance/Utilization tab
- Navigating the Event tab
- Navigating the Tools and Links tab

Navigating the 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

System(s)		Events				
View <input type="text" value="All Events"/> ▼						
To view event details, make sure 'Event Type' column is displayed and click on desired link.						
Summary: ✖ 1 Critical ▽ 0 Major ⚠ 0 Minor ⚡ 0 Warning ✔ 0 Normal i 9 Informational Total: 10						
<input type="checkbox"/>	State	Severity	Event Type	System Name	Event Time	Assign
<input type="checkbox"/>	Not cleared	✖	System is unreachable	CherryCandy	2/20/07 1:45 AM	
<input type="checkbox"/>	Not cleared	i	Discovered System	CherryCandy	2/20/07 1:44 AM	
<input type="checkbox"/>	Not cleared	i	Discovered System	Encl_09USE6442859	2/19/07 10:24 PM	
<input type="checkbox"/>	Not cleared	i	Discovered System	Encl_09USE644285C	2/19/07 10:24 PM	
<input type="checkbox"/>	Not cleared	i	Discovered System	C7000_Enclaaa	2/19/07 10:23 PM	
<input type="checkbox"/>	Not cleared	i	Discovered System	Encl_03EA0WJTK544	2/19/07 10:22 PM	
<input type="checkbox"/>	Not cleared	i	Discovered System	Encl_07EA0RMJS144	2/19/07 10:22 PM	

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

- [Navigating the System tab](#)
- [Navigating the Performance/Utilization tab](#)
- [Navigating the Tools and Links tab](#)

Related topics

- [Overview](#)
- [System page](#)

4 System page

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

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

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

- **Essentials Tab.** Displays a description of the available software and a link to the HP web site where you can get further details. Only full and limited configuration rights users can view the Essentials tab.

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

- Navigating the System tab
- Navigating the Tools and Links tab
- Navigating the Event tab
- Navigating the Performance/Utilization tab
- Overview
- Viewing e-Class enclosures

Navigating the System tab

Identification

On the **System** 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 **System** tab page for servers is divided into the following sections:

- System Status
- More Information
- Identification
- Product Description
- HP Insight Power Manager
- Contact Information
- Asset Information
- Management Processor
- Host Server
- Partner Device
- 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.
- **Contract and Warranty Status** The **Contract and Warranty Status** is available when you have a Windows CMS and the Service Essentials Remote Support Pack is installed. You can view Contract and Warranty status updates for HP systems that have contract and warranty data collection enabled. Click the **Contract and Warranty Status** icon to view the Contract and Warranty Details page for the system.
- **Aggregate Event Status** The **Aggregate Event Status** is a summary of all of a system's uncleared events. This status is updated whenever an event is added, updated, or removed. To view the **System Page Events** tab for a system, click the **Aggregate Event Status** icon.



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 that has 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

HP Insight Power Manager

HP Insight Power Manager (IPM) is an *HP Systems Insight Manager* (HP SIM) plug-in that aggregates power data, and provides remote control regardless of operating system type and enables you to monitor historical power consumption and heat dissipation to effectively manage those resources. It extends the unified infrastructure framework by providing new levers into the server and enabling policy-based power and thermal management.



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

This option displays a graph and analysis section for a single system, if IPM is installed/configured on HP SIM and if the selected server supports IPM and is licensed.

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.

Entitlement Information

- **Start Date** The starting date of the contract or warranty.
- **End Date** The end date of the contract or warranty.
- **Type** The contract type, if a service contract exists.
- **Status** The current contract or warranty status.
- **Last Collection** The date that contract and warranty data was last collected.

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

Partner Device

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 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

Role

This section indicates whether the Onboard Administrator is active or inactive.

Virtual Connect Domains

This option displays the following information of the Virtual Connect Domain:

- Virtual Connect Domain Name
- Primary Virtual Connect Ethernet Module
- Configuration Status
- Rack Name
- Firmware Version
- Enclosure
- Interconnect Bay

c7000_Enclosure_vc_domain_120 (HP Virtual Connect Domain)

- System
- Tools & Links
- Events
- Essentials

System Status

Monitoring of the system is suspended indefinitely.

[Health Status](#)

[Aggregate Event Status](#)



- Identification

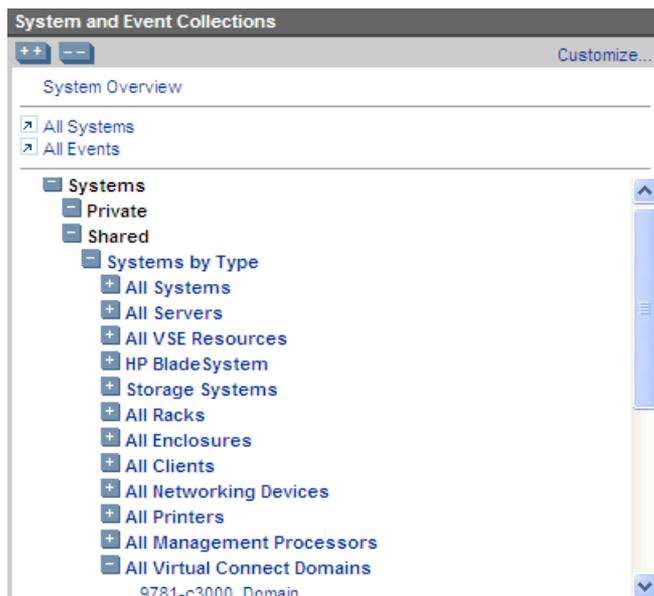
Preferred System Name	.c7000_Enclosure_vc_domain_120
Network Name	.c7000_Enclosure_vc_domain_120

+ Product Description

- Virtual Connect Domain

Virtual Connect Domain Name	c7000 Enclosure vc domain 120
Primary Virtual Connect Ethernet Module	16.101.161.82
Configuration Status	Domain Configured - With Profiles
Firmware Version	1.20
Rack	C7000Enclosure
Enclosure	.c7000_Enclosure
Interconnect Bay	Not Available

To access the All Virtual Connect Domain discovered in your system, go to the **and Events** panel, click **Shared Systems by Type** and **All Virtual Connect Domains**. The All Virtual Connect Domain option is visible in the left navigation pane when the Onboard Administrator is discovered.





NOTE: There is a different system page for Virtual Connect Domain and Master Virtual Connect Switch.

Related topics

- Overview
- Navigating the Performance/Utilization tab
- Navigating the Event tab
- Navigating the Tools and Links tab

Navigating the 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.
- The **Save/Restore Configuration of Onboard Administrator** appears for an active Onboard Administrator.

iLO Links

This section contains links that are generated by iLO. Some of the available links include:

- The **Virtual media** link launches **Virtual Media** in a new window.
- The **Remote Console** link launches the **Remote Console** in a new window.
- The **Remote Serial** link launches the **Remote Serial Console** in a new window.

Note: iLO firmware must be 1.30 or later. An upgrade must be followed up with a re-identification of iLO.

- The **Telnet to iLO** link launches **Telnet to iLO** in a new window.

Note: Telnet and iLO links are not available for Integrity blades.

Note: The Telnet protocol handler is no longer supported in Internet Explorer 7. The Telnet feature will not be available to users using Internet Explorer 7.



NOTE: These links can also be configured for Single Sign On (SSO) from HP SIM.

Complete the following steps to configure SSO to iLO2:

- Login to iLO2.
- Go to **Administration>Security> HP SIM SSO**.
- Enable the Single Sign-on Trust Mode by choosing any of the options from the drop down menu.
- Click **ADD HP SIM Server** and depending on the options selected in step 3, carry out one of the following steps:
 - Add a trusted HP SIM Server name.
 - Retrieve and import a certificate from the trusted HP SIM server.
 - Directly import an HP SIM Server certificate.
- Click **Apply**.

Related topics

- Overview
- System page
- Navigating the System tab
- Navigating the Performance/Utilization tab
- Navigating the Event tab

Navigating the 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

System(s)		Events				
View <input type="text" value="All Events"/>						
To view event details, make sure 'Event Type' column is displayed and click on desired link.						
Summary: 1 Critical 0 Major 0 Minor 0 Warning 0 Normal 9 Informational Total: 10						
<input type="checkbox"/>	State	Severity	Event Type	System Name	Event Time	Assign
<input type="checkbox"/>	Not cleared		System is unreachable	SystemName	2/20/07 1:45 AM	
<input type="checkbox"/>	Not cleared		Discovered System	SystemName	2/20/07 1:44 AM	
<input type="checkbox"/>	Not cleared		Discovered System	Encl_09USE6442859	2/19/07 10:24 PM	
<input type="checkbox"/>	Not cleared		Discovered System	Encl_09USE644285C	2/19/07 10:24 PM	
<input type="checkbox"/>	Not cleared		Discovered System	C7000_Enclaaa	2/19/07 10:23 PM	
<input type="checkbox"/>	Not cleared		Discovered System	Encl_03EA0WJTK544	2/19/07 10:22 PM	
<input type="checkbox"/>	Not cleared		Discovered System	Encl_07EA0RMJS144	2/19/07 10:22 PM	

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:

- 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.
- 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

- [Navigating the System tab](#)
- [Navigating the Performance/Utilization tab](#)
- [Navigating the Tools and Links tab](#)

Related topics

- [Overview](#)
- [System page](#)

Navigating the Performance/Utilization tab

The Performance/Utilization tab displays information about selected blade performance.



NOTE: The **Performance/Utilization** tab is displayed for bare metal blades without any data.

The Performance/Utilization tab includes the following information:

- **Updated: (Timestamp).** Automatically refreshes and displays the last updated timestamp.
Note: This reflects the Central Management Server time and not the client time.
- **Processor**
 - **Index.** Displays the processor index number.
 - **Type.** Displays the processor type.
 - **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 and e-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: 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](#)

Navigating the Port Mapping/Mezzanine Cards tab

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

The PortMapping tab includes the following information:

- Updated: (Timestamp) 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.
 - **O.S. Interface Name.** Displays the name of the network interface in 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](#)

Navigating the Essentials tab

The **Essentials** tab is available on the **System Page** of systems that might support other HP Systems Insight Manager (HP SIM) partner applications. This tab provides a description of the available software and a link to the HP web site where you can get further details. Only full and limited configuration rights users can view the Essentials tab.

When new information is available on the **Essentials** tab, the tab is highlighted with an Informational icon: . After you view the **Essentials** tab, the icon is removed until new information is available.

Related topics

- [Overview](#)
- [Navigating the Performance/Utilization tab](#)
- [Navigating the Event tab](#)
- [Navigating the Tools and Links tab](#)

5 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.

The Onboard Administrator provides a group in the System page called *OA role* which indicates whether the OA is active or on standby. For more information, see the Onboard Administrator System page.

Related topics

- ▲ Navigating the System(s) tab

Glossary

blade server	A server that is located in a rack or enclosure. <i>See also</i> 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. <i>See also</i> 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	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: <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	The operating state of SNMP-based systems. A hardware status is determined by polling SNMP information from the system. Status is defined as: <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	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. <i>See also</i> system health status.
HP Systems Insight Manager (HP SIM)	System management software that is capable of managing a wide variety of systems, including HP systems, clusters, desktops, workstations, and portables. HP SIM; combines the strengths of Insight Manager 7, HP Tootools, and HP Servicecontrol Manager to deliver a single tool for managing HP ProLiant, Integrity, and HP 9000 systems running Windows, Linux, and HP-UX. The core HP SIM software delivers the essential capabilities required to manage all HP server platforms. HP SIM can also be extended to deliver unparalleled breadth of system management with plug-ins for HP storage, power, client, and printer products. Plug-ins for rapid deployment, performance management, and workload management enable systems administrators to pick the value added software required to deliver complete lifecycle management of their hardware assets.
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. <i>See also</i> enclosure, racks.
Simple Network Management Protocol (SNMP) system	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. 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	<p>Events that have a Critical, Major, Minor, Normal, or Informational severity.</p> <ul style="list-style-type: none"> • Critical. A failure has occurred, and immediate attention is required. • Major. A failure is impending. • Minor. A warning condition exists that can escalate into a more serious problem. • Normal. These events are not a problem. • Informational. No attention require. This status is provided as useful information
unknown status	<p>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.</p>
user	<p>A network user with a valid login on the CMS that has been added to HP Systems Insight Manager.</p>
Version Control Agent (VCA)	<p>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.</p>
Web-Based Enterprise Management (WBEM)	<p>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.</p>

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