HP BladeSystem Integrated Manager in HP Systems Insight Manager

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Release History

Version 1.3, July 2005

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Overview

The HP BladeSystem Integrated Manager in HP Systems Insight 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 panel, `Systems\Shared\Systems by Type\HP BladeSystem`.

What's New in HP BladeSystem Integrated Manager

HP BladeSystem Integrated Manager 2.0 provides support for the most recently available HP BladeSystem components (such as the ProLiant BL45p server blade, 25p workstation, Brocade 4Gb SAN switch, Mcdata 4Gb SAN Switch, and 1U power enclosure), adds enhanced blade front and back view visualization, power and thermal status, plus other enhancements.

Related Procedure

- HP BladeSystem Page Overview

Related Topics

- p-Class/e-Class Enclosures
- p-Class Rack
- Tree View
- Table View
- Icon View

HP BladeSystem Page Overview

HP BladeSystem Page Overview

The **HP BladeSystem** page defaults to a tree view to display All p-Class racks for p-Class components (p-Class blades, switches, enclosures, racks) and All e-Class enclosures for Consolidated Client Infrastructure (CCI) blade PCs and e-Class components (e-Class blades and enclosures). You can select one or more components. To select all of the HP BladeSystem components, select the checkbox **Select "HP BladeSystem" itself**. The **HP BladeSystem** page can be viewed three ways: tree view, icon view or table view.

Related Procedures

- p-Class/e-Class Enclosures

- p-Class Rack

Related Topics

- Tree View
- Table View
- Icon View

Tree View

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

Note:

In previous versions of the HP BladeSystem Integrated Manager, prior to version 2.0, the term folder was used. A folder as referred to in previous versions of the product is the same as a collection in HP BladeSystem Integrated Manager 2.0.

When an HP BladeSystem component or collection is selected either in the **Systems and Events** panel panel or from the **HP BladeSystem** page, the tree view is displayed in the HP SIM's workspace. The tree view is initially collapsed. Systems might appear in multiple locations, since they can be in multiple collections. Users are only able to view 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
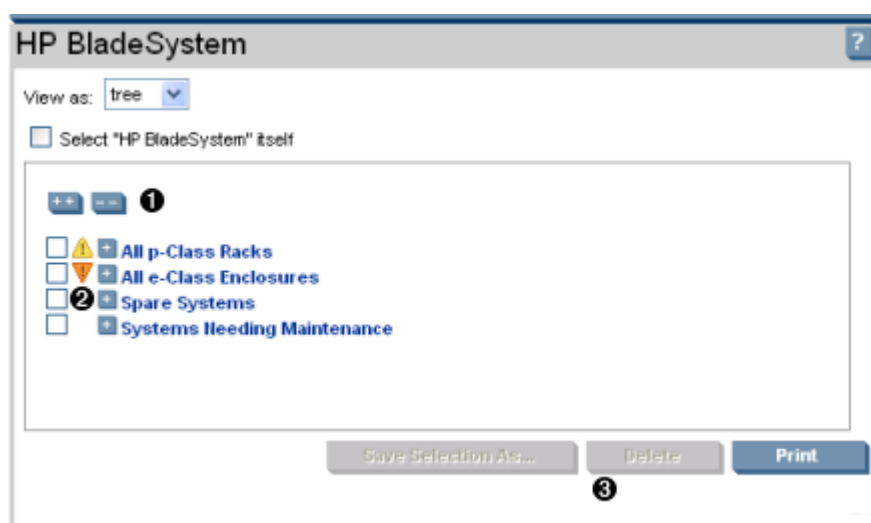
Expanding the Tree View

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.

Individual branch systems can be expanded by clicking the expansion ⊞ icon. The hyperlinked name of the system or component itself is not an expansion control, but a drilldown to get more information about that system. When a branch is collapsed, the icon appears as ⊞. When clicked, the branch expands to show all its component contents, and the icon toggles to ⊟. Clicking the icon again collapses the branch and toggles the icon back.

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 its contents are selected. If the contents were not already expanded, the next level of contents are expanded to show the selection.

- ◪

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

- ☑

  Fourth state, just the collection 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 collections, the status to the left of the collection name is shown as the most critical status of the systems in the collection, including the collection status. The status of the collection 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.

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:

- ☐

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 unchecked, the checkboxes under the collection become selectable.

Tree View Buttons

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

- **Save selection as**. When a system is selected, 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 HP Systems Insight Manager 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. Refer to HP Systems Insight Manager Technical Reference Guide for more information on deleting collections.

- **Print**. Click **Print** to display a printable version of the tree. To print the tree, from the browser, select **File**->**Print**.

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

Related Topics

- Overview
- HP BladeSystem Page Overview
- Icon View
- Table View

Icon View

The icon view lists the actual 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 in the column to select a system. You can select more than one system or to select all of the HP BladeSystem components, select the checkbox, **Select "HP BladeSystem" 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 Overview
- Tree View
- Table View

Table View

The table view lists the system name and type and sorts information into columns. The legend shows how many systems in the view are Critical, Major, Minor, Normal, Disabled, and Unknown. Place your cursor over a column name for a brief description of that column. For more information regarding table view, refer to the *HP Systems Insight Manager Technical Reference Guide*.
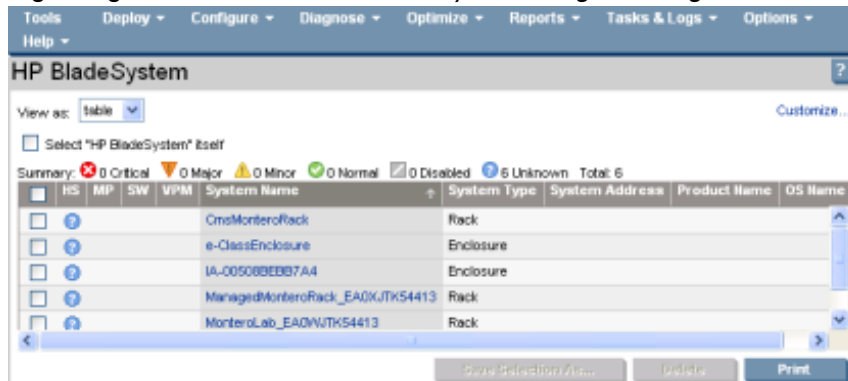
System View Columns

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. Refer to:

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

Selection

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

System Name

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

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

● Management processor to server

● Server to enclosure

● Management processor to enclosure

● Enclosure to rack

● Switch to enclosure

● System to cluster

The following system types are containers:

● Rack

● Enclosure

● Cluster

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

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

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

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

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

● HP Serviceguard Manager is installed and registered with HP Systems Insight Manager

● The system selected is an HP-UX or Linux server that belongs to an HP Serviceguard cluster

Health Status

The health status column (indicated by HS) displays the overall system health status, which is determined by the default Hardware Status Polling task. By clicking the status icon in this column,

the **HP Management Agents** or the **HP Instant 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 Version Control Agent is not installed on the system, a message appears that states `Version Control Agent not found`.

ProLiant Essentials Performance Management Pack

The 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 **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.

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 (VMM) 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 VMM 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 and IP address, including HP Serviceguard clusters.

Product Name

This column displays the product name of the system.

System List Buttons

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

- **Save selection as**. When a system is highlighted, this button is used to save the selection with a new name. Changes are saved on a per-user, per-collection basis.

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

- **Print**. When the report is displayed, select **File**->**Print** from the browser menu to print the report.

> **Note:**
>
> Because certain print options are not supported in HP Systems Insight Manager, you cannot:
>
> ❍ Change the **Orientation** to **Landscape** in the **Print** dialog box (refer to **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 Overview
● Icon View
● Tree View

p-Class Rack

To access all p-Class Racks, click on **All p-Class Racks** in the tree view and All p-Class Racks and enclosures will be displayed. All p-Class Racks and it's components (p-Class server blades, interconnect switches, and server blade enclosures and power enclosures) are displayed in the tree view when the rack names are expanded.

Related Procedures

- Overview
- HP BladeSystem Page Overview
- Tree View
- Rack View page

Rack View page

To view a rack, click on a name of a rack in the All p-Class Racks. The **Rack View** page is displayed in picture view. The picture view page for racks contains an image of the discovered systems in the corresponding enclosures and power enclosures of the rack.
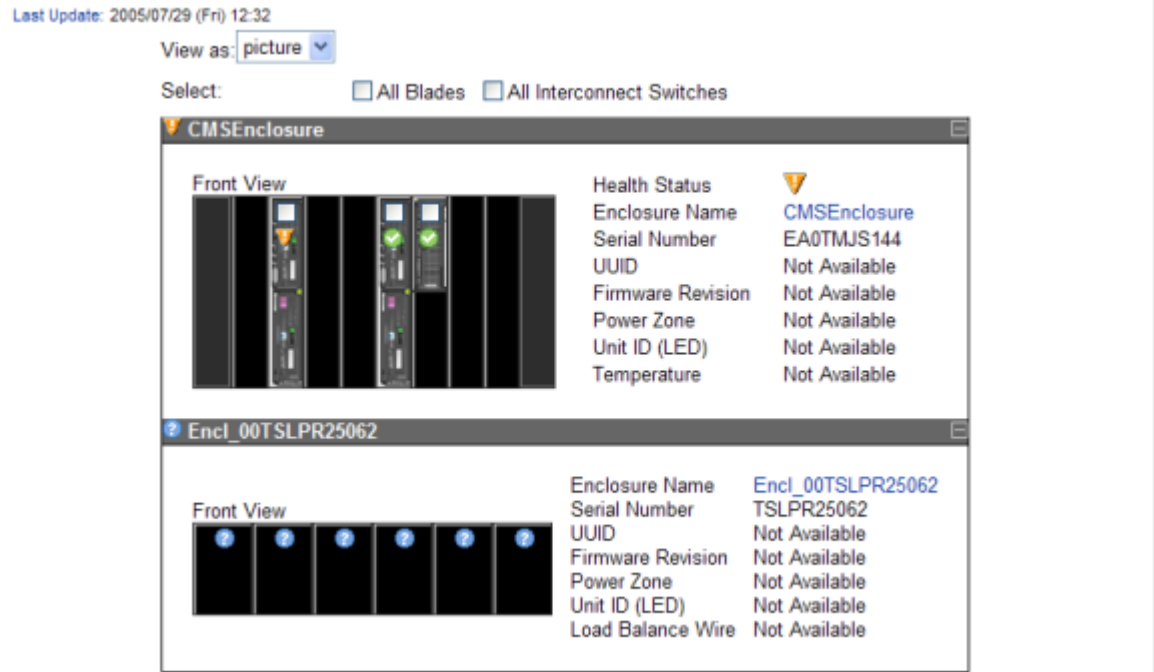
The following items are listed on the **Rack View** Page.

● Rack name in header
● Type of system in parentheses (rack)
● Help link
● Multi-select checkboxes including:

  ❍ All Blades
  ❍ All Interconnect Switches

● 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 to the right of the pictures include:

  ❍ Health Status
  ❍ Enclosure name
  ❍ Serial number
  ❍ UUID
  ❍ Firmware revision
  ❍ Power zone
  ❍ Unit ID (LED)
  ❍ Temperature

● Power and Thermal Information

  Note: The enclosure is highlighted if at least one iLO in the rack using that power enclosure has firmware version of 1.80 or higher.

  ❍ Enclosure name

- ❍ Serial number
- ❍ UUID
- ❍ Firmware revision
- ❍ Power zone
- ❍ Unit ID (LED)
- ❍ Load Balance Wire
- ❍ Last Update link in the Rack and Enclosure view

Note:

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

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 will suggest 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. Refer to "System Page" for more information.

Related Procedures

- ● Overview
- ● HP BladeSystem Page Overview
- ● p-Class Rack
- ● Tree View

p-Class/e-Class Enclosures

To access All e-Class Enclosures, click **All e-Class Enclosures** in the tree view. The following components are located in the All e-Class Enclosures **System Page**, under the **Management Processor** section: CCI blade PCs, e-Class server blades, Integrated Administrator (enclosure management), and enclosures.
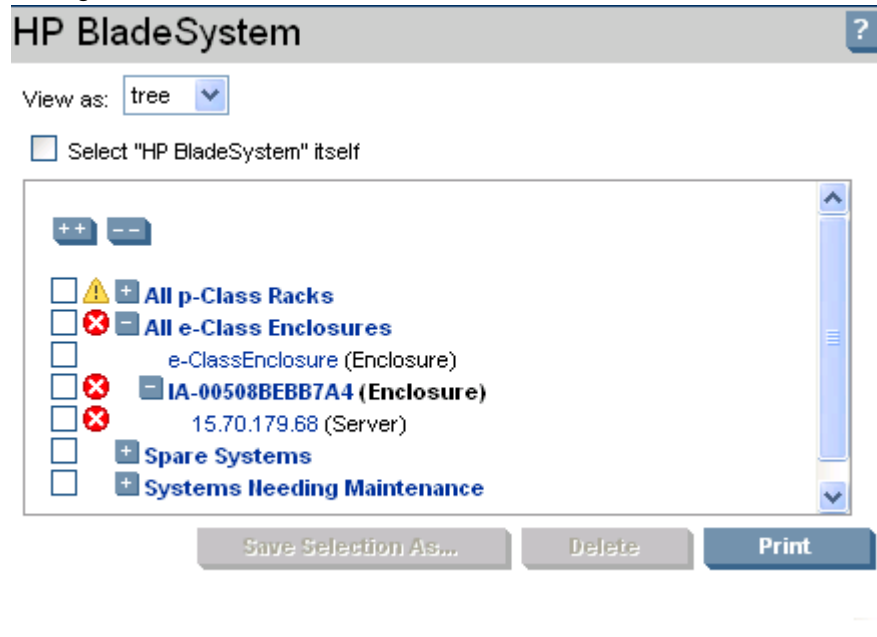
Related Procedures

- Overview
- HP BladeSystem Page Overview
- Tree View
- p-Class/e-Class Enclosures

Enclosure View Page

To view an enclosure or power enclosure, click a name of an enclosure in the All p-Class Racks/All e-Class Enclosure tree 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.

- System Status

  ○ Health Status icon

- Identification

  ○ Serial number
  ○ UUID
  ○ Rack Name (hyperlink)
  ○ Firmware Revision

❍ Power Zone
❍ Unit ID (LED)
❍ Temperature

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.

● Power and Thermal Information

❍ Load Balance Wire

● Power Supply Unit

❍ Bay Number
❍ Firmware Revision
❍ AC Input
❍ Input Temp
❍ Input Temp Fail
❍ Input Temp Trip
❍ Output Temp
❍ Output Temp Fail
❍ Output Temp Trip

> **Note:** The enclosure is highlighted if at least one iLO in the rack using that power enclosure has firmware version of 1.80 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, 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 will suggest to upgrade the Firmware. You can click a component in the picture view to display information about that component. The **System Page** appears. Refer to "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.

Related Procedures

● Overview
● HP BladeSystem Page Overview
● p-Class/e-Class Enclosures
● Tree View

System Page

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

- **Identity Tab**. Includes general system and status information. Refer to the *HP Systems Insight Manager Technical Reference Guide* for more information on this tab.
- **Tools & Links Tab**. Includes links to System Management pages, HP Systems Insight Manager pages, and other tools and information. Refer to the *HP Systems Insight Manager Technical Reference Guide* for more information on this tab.
- **Events Tab**. Displays the event table view page for the system. Refer to the *HP Systems Insight Manager Technical Reference Guide* for more information on this tab.
- **Performance Tab**. Includes general information about the performance of the system. Refer to " Performance Tab" for more information.

To access the **System Page**:

Click the system name in the **System Name** column on the system table view page.

Related Topics

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

Identity Tab

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

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

- "System Status"
- "Identification"
- "Product Description"
- "Associations"

System Status

This section includes:

- **Health Status.**   The overall status for a system. It is obtained from Web-Based Enterprise Management (WBEM), Simple Network Management Protocol (SNMP), Desktop Management Interface (DMI) Status Polling tasks, or all three. A ping (ICMP or TCP reachable check) is always made. Click the **Health Status** link to access System Management Homepage (SMH) if present or if it is not, the link accesses the **Property Page Status** page. If neither option is available, the **Health Status** link is not present.

- **Software Status.**   The software status icon links to the system software Version Control Agent if available.

- **Management Processor Status.**   The management processor status (if available) links to a Web server on the management processor.

- **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.**

Identification

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

Note:

This section can be expanded of collapsed by clicking ⊞ and ⊟.

The items available in this section include:

- **Address**. The IP address, IPX address, or both that have been discovered for the system.

- **Preferred System Name**. This is the name shown for the system. When available, it defaults to the host name from DNS. You can override this through the **Edit System Properties** link under the **Tools & Links** tab.

- **Network Name**. If available, this is the fully qualified DNS name. Reverse DNS lookups by IP address must be enabled and match a forward lookup.

- **UUID**. This is a unique identifier from the agent or other instrumentation on the system.

- **Serial Number**. The serial number of the system.

Product Description

Note:

This section can be expanded of collapsed by clicking ⊞ and ⊟.

This section includes:

- **Product ID**. This is the identification number that when added to the serial number of the server, enables HP Support to uniquely identify HP systems.

- **System Type**. This is the basic system type returned from identification.

- **System Subtype**. The system subtype from identification

- **Product Model**. This is the system subtype returned from identification.

- **Hardware Description**. This is the description of the hardware obtained from the **Edit System Properties** page.

- **OS Name**. This is the longer operating system name for the system and is used for filtering in operating system-based system collections.

- **OS for Tool Filtering**. This is the short name of the operating system used for tool filter definition files.

- **OS Description**. This is the detailed description of the operating system. For example, service pack information.

- **OS Version**. This is the numerical representation of the operating system version.

- **Management Protocols**. This is the management protocols that have responded when attempting to identify the system.

- **Server Role** This is optional.

  Note: If more protocols are expected, verify the credentials configured on the **System Protocol Settings** page.

Note:

The System type and subtype are not displayed for bare metal blades, and the iLO firmware version is less than 1.75

Associations

This section includes:

- **Enclosure Name.** This is the name of the enclosure, if the system is in an enclosure, for example, a p-Class server blade.

- **Rack Name.** This is the name of the rack, if the enclosure is in a rack that could be discovered.

- **Slot.** This is the slot number that the system is positioned within the enclosure.

- **Server Dimensions.** If available, this is the dimensions in millimeters of the system.

Related Topics

- Overview
- Performance Tab

- Event Tab
- Tools and Links Tab

Tools and Links Tab

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

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

System Management Pages

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

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

System Web Application Pages

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

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

HP Systems Insight Manager Pages

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

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

Related Topics

- Overview
- System Page
- Identity Tab
- Performance Tab
- Event Tab

Event Tab

The event table view page is a list of events that meet common search criteria. For example, if you open an event collection from the events table view page by **Event Type**, you can view systems that have generated the same events.

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

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

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

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. Refer to:

● Selection
● State
● Severity
● Event Type
● System Name
● Event Time
● Assigned To
● Comments

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.

Event Management Buttons

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

- **Clear**. This button is used to clear one or more events from the database. Select the events to clear, and click **Clear**.

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

● **Assign to**. This button is used to assign responsibility for events to a particular user.

● **Enter Comments**. Brings up a dialog box to enter comments for one or more events.

● **Print**. When the report is displayed, select **File**->**Print** from the browser menu to print the report.

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

Related Procedures

● Identity Tab
● Performance Tab
● Tools and Links Tab

Related Topics

● Overview
● System Page

Performance Tab

This tab includes a table that displays Performance Data for the blade, including under various sections:

1. **CPU**
2. **Logical Disks**
3. **Memory**
4. **Performance Management Pack (PMP)**

Note:

The Performance Tab only shows the Performance Management Pack (PMP) sub section on Windows Central Management Servers (CMS).

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5. **Refresh links** Refresh links are provided on the **Performance** tab for **CPU**, **Memory**, and **Logical Disks**, these links can be refreshed independent of each other.

Note:

This tab is not displayed for bare metal blades with an iLO firmware version less than 1.75.

Related Topics

- Overview
- System Page

Glossary

blade server	A server that is located in a rack or enclosure. See Also enclosure, racks.
central management server (CMS)	A system in the management domain that executes the HP Systems Insight Manager software. All central operations within HP Systems Insight Manager are initiated from this system.
collections	The method for grouping system or event searches.
container	A rack or an enclosure is considered a container. See Also enclosure, racks.
critical status	A state generated when HP Systems Insight Manager can no longer communicate to a managed system.
Desktop Management Interface (DMI)	An industry standard protocol, primarily used in client management, established by the DMTF. DMI provides an efficient means of reporting client system problems. DMI-compliant computers can send status information to a central management system over a network.
discovery	A feature within a management application that finds and identifies network objects. In HP management applications, discovery finds and identifies all the HP systems within a specified network range.
Domain Name Service (DNS)	A service that translates domain names into IP addresses.
enclosure	A physical container for a set of blades servers. It consists of a backplane that routes power and communication signals and additional hardware for cabling and thermal issues. It also hosts the CPU or server power supplies.
event	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:
	● **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:

- **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.**

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.
racks	A set of components cabled together to communicate between themselves. A rack is a container for an enclosure.
Simple Network Management Protocol (SNMP)	One of the management protocols supported by HP Systems Insight Manager. Traditional management protocol used extensively by networking systems and most servers. MIB-2 is the standard information available consistently across all vendors.
system	Nodes on the network that communicate through TCP/IP or IPX. To manage a system, some type of management protocol (for example, SNMP, DMI, or WBEM) must be present on the system. Examples of systems include servers, workstations, desktops, portables, routers, switches, hubs, and gateways.

uncleared event status	Events that have a Critical, Major, Minor, Normal, or Informational severity.

- **Critical.** A failure has occurred, and immediate attention is required.
- **Major.** A failure is impending.
- **Minor.** A warning condition exists that can escalate into a more serious problem.
- **Normal.** These events are not a problem.
- **Informational.** No attention require. This status is provided as useful information

unknown status	HP Systems Insight Manager is not able to obtain management information about the system using SNMP or DMI. Although no management instrumentation information is available, the system can be pinged. It might have an invalid community string or security setting.
user	A network user with a valid login on the CMS that has been added to HP Systems Insight Manager.
Version Control Agent (VCA)	An agent that is installed on a server to enable you to see the HP software installed on that server. The Version Control Agent can be configured to point to a Version Control Repository Manager agent, enabling easy version comparison and software update from the repository.

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