



@server

IBM Systems

Power Executive 1.01

Release Notes





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Note

Before using this information and the product it supports, read the general information in "Notices" on page 11.

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Chapter 1. About this release

IBM® Power Executive is an extension to IBM Director 5.1. This product enables IBM customers to manage the power and thermal needs of BladeCenter™ systems in the datacenter. Power Executive is part of a larger power-management implementation that includes hardware and firmware components.

New in this release

Power Executive 1.01 adds the following enhancements and changes:

Support for BladeCenter LS20, machine type 8850

Power Executive 1.01 adds support for the BladeCenter LS20, machine type 8850 when used within a supported BladeCenter chassis. (Power Executive supports three BladeCenter chassis: BladeCenter, machine type 8677 and BladeCenter T, machine types 8720 and 8730.)

Upgrade from Power Executive 1.0

You can upgrade from Power Executive 1.0 to Power Executive 1.01 without uninstalling Power Executive 1.0. For more information, see Chapter 2, “Installation and upgrade information,” on page 5.

Exclusive communication to BladeCenter management modules

Power Executive 1.01 requires exclusive access to port 6090 of each primary management module in all BladeCenter chassis that it is currently monitoring. However, you can still access these management modules through the management-module Web interface or the management-module command-line interface (CLI).

Incremental defect fixes

A short list of defects were fixed in Power Executive 1.01. For details, see “Product fix history” on page 2.

For details about the functionality in Power Executive 1.01, see the *IBM Power Executive Installation and User's Guide*.

Overview of Power Executive 1.0 release

Power Executive 1.0 contains the following features and functions:

Install on Windows® or Linux®

Power Executive can be installed on IBM Director 5.1 management servers and management consoles that are running supported Windows and Linux 32-bit operating systems.

Monitor power consumption data

The Power Executive user interface displays power-consumption information about BladeCenter chassis and their modules. You can display either detailed or summary power information about all the BladeCenter chassis in a group, a single BladeCenter chassis, a power domain in a BladeCenter chassis, or a module within a power domain of a BladeCenter chassis.

Suspend and resume data collection

You can suspend data collection on any BladeCenter chassis displayed in Power Executive. Later, you can resume data collection on that chassis.

Manage trend data

You can define how often Power Executive polls for power information and how long this information is retained by Power Executive. When displaying power information in Power Executive, you can use a predefined time interval or create a custom time interval that determines how much historical data is displayed.

Export data

Power Executive can export summary data and detailed data in tabular format into CSV, XML, or HTML file formats. Power Executive also can export a picture of the power meter and a graphical view of the detailed data into the JPEG file format.

Report hardware-related events

Power Executive displays information about events that it generates, either in graphical or tabular format. Further, the power information displayed in Power Executive is updated when certain events from Server Configuration Manager occur.

For details about this product, see the *IBM Power Executive Installation and User's Guide*.

Product fix history

Power Executive 1.01 corrects the following defects:

- Power Executive did not recognize new firmware for the Baseboard Management Controller (BMC) after the BMC firmware was upgraded.
- Power Executive incorrectly reported power events for systems that were not known to IBM Director.
- Power Executive Console did not include the time that the data in the power meter or trend data table was obtained.
- Power Executive made multiple connections to a BladeCenter management module, which could cause the management-module event log to become full in a relatively short amount of time.

Compatibility with IBM Director

Power Executive 1.01 is supported for use with IBM Director 5.1.

Compatibility with IBM BladeCenter systems

The *IBM Power Executive Installation and User's Guide* identifies the hardware systems that are supported by Power Executive 1.01. For details, see Chapter 2, "Installing Power Executive" of that guide.

Power Executive information resources

You can find additional information about Power Executive in the product documentation and on the World Wide Web.

Documentation

In addition to these release notes, Power Executive 1.01 is supported by the *IBM Power Executive Installation and User's Guide* (pwx1.0_docs_user.pdf).

All documentation is in Portable Document Format (PDF). You need Adobe Acrobat Reader or Xpdf to view it. If you need the Adobe Acrobat Reader, you can download it directly from Adobe at www.adobe.com/products/acrobat/readstep2.html.

World Wide Web resources

The following Web pages provide resources for understanding, using, and troubleshooting IBM Director and systems-management tools.

IBM Power Executive page

www.ibm.com/servers/eserver/xseries/systems_management/ibm_director/extensions/powerexec.html

Obtain an overview of Power Executive and links for downloading the product, release notes, and user's guide.

IBM personal computing support page

www.ibm.com/pc/support/

Locate support for IBM hardware and systems-management software. For systems-management software support, click **Systems management**.

IBM Systems Management Software: Download/Registration page

www.ibm.com/pc/us/eserver/xseries/systems_management/dwnl.html

Download IBM systems-management software.

IBM @server[®] xSeries[®] Systems Management page

www.ibm.com/servers/eserver/xseries/systems_management

Obtain an overview of IBM systems management and IBM Director.

IBM ServerProven[®] page

www.ibm.com/pc/us/compat/index.html

Obtain information about hardware compatibility with IBM @server xSeries, IBM @server BladeCenter, and IBM IntelliStation[®] hardware.

Chapter 2. Installation and upgrade information

Installation instructions, including other system requirements, are provided in the *IBM Power Executive Installation and User's Guide*. However, observe the following information which is applicable only to Power Executive 1.01:

- On systems that are running Windows, download and use the file 40C4597.exe.
- On systems that are running Linux, use the -U option to the rpm command instead of the -i option. For example, to upgrade Power Executive Server on a Linux system, enter the following command at a command prompt:

```
rpm -Uv PowerExecutive-server-1.01-1.noarch.rpm
```

Note: If you previously installed Power Executive 1.0, you can upgrade to Power Executive 1.01 without uninstalling Power Executive 1.0. The upgrade process will shut down Power Executive if it is left running during the upgrade.

Chapter 3. Limitations and general problems

This chapter contains information about limitations and general problems.

Limitation

This section contains information about this limitation of Power Executive 1.01:

Not all expected power events are displayed by Power Executive

Sometimes a power event that occurs for a server is not reflected in the Power Executive Console. When IBM Director does not receive the power event from a BladeCenter management module, Power Executive does not receive this event either. This problem can typically be resolved by restarting the BladeCenter management module. The system that is running IBM Director and Power Executive does not need to be restarted.

General problems

This section contains information about these general problems applicable to Power Executive 1.01:

Setting to hide the power meter is not retained across Power Executive sessions

The **View►Hide Power Meter** menu option for Power Executive Console, which hides the power meter, is not retained when you exit the Power Executive Console and relaunch this task. You must hide the power meter again in subsequent sessions of Power Executive.

Dynamic refreshes cause trend table to be redisplayed

When you are viewing the end of the trend table in Power Executive, an automatic refresh by Power Executive causes Power Executive to redisplay the trend table from the top of the table. You must scroll again to the end of the trend table to continue viewing it. Automatic refreshes occur every minute.

Chapter 4. Corrections to the Power Executive documentation

This chapter provides corrections to the *IBM Power Executive Installation and User's Guide* (pwx1.0_docs_user.pdf).

Power data for the BladeCenter T, machine type 8720 is displayed in direct current, not alternating current

Pertinent to the displaying power consumption data, the user interface label and the documentation for Power Executive indicate that the data is measured in alternating current (ac). However, for the BladeCenter T chassis, machine type 8720, these values are actually measured in direct current (dc), not ac.

Supported BladeCenter chassis and blade servers

Power Executive can monitor these BladeCenter chassis:

- BladeCenter machine type 8677
- BladeCenter T, machine types 8720 and 8730

Within a supported BladeCenter chassis, Power Executive can provide actual power consumption information for these blade servers that can enable the power-meter function:

- BladeCenter HS20, machine type 8843
- BladeCenter LS20, machine type 8850

Note: Power Executive does not support any blade servers that do not have power-metering support. This includes these blade servers that are incorrectly listed in the *IBM Power Executive Installation and User's Guide*:

- BladeCenter HS20, machine types 8678 and 8832
- BladeCenter JS20, machine type 8842

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