



@server

IBM Systems

Power Executive 1.0

Release Notes





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Note

Before using this information and the product it supports, read the general information in "Notices" on page 9.

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Chapter 1. About this release

IBM® Power Executive 1.0 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.

Overview

Power Executive 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*.

Compatibility with IBM Director

Power Executive 1.0 is supported for use with IBM Director 5.1.

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 1.0 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 this Web address:
<http://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

Power Executive has two software components that can be installed on different servers in your network:

- Power Executive Server is installed on the management server that is running IBM Director Server.
- Power Executive Console is installed on all management consoles that are running IBM Director Console.

Installation instructions, including other system requirements, are provided in the *IBM Power Executive Installation and User's Guide*.

Chapter 3. Limitations and general problems

This chapter contains information about limitations and general problems.

Limitations

This section contains information about these limitations applicable to Power Executive 1.0:

Not all expected power events are displayed by Power Executive

Some times a power event can occur for a server and that power event is not reflected in the Power Executive Console. This can happen when IBM Director does not receive the power event from a BladeCenter management module, which in turn means that Power Executive does not receive this event either. This problem can typically be resolved by restarting the BladeCenter management module. It does not require the system that is running IBM Director and Power Executive to be restarted.

General problems

This section contains information about these general problems applicable to Power Executive 1.0:

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

If you use the **View►Hide Power Meter** menu option of Power Executive Console to hide the power meter, this setting 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 back 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

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

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