



# Enhanced function for IBM Systems Director V6.3, Active Energy Manager V4.4, and Network Control V1.3

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## At a glance

New features and functions with IBM® Systems Director V6.3 and Active Energy Manager V4.4 include:

- Improved logging, including reliable event delivery
- Improvements to Discovery, Inventory, Update, Configuration, and Status services
- An improved console, including a new welcome screen and chassis view
- Inclusion of DB2® Enterprise Server Edition as the embedded database, which simplifies the Director configuration process
- Enhanced performance and scaling characteristics for more endpoints, allowing more server, storage, and network resources to be managed
- Improved license management, including longer trial periods and user-defined activation
- Simplified security management
- Improvements to the runtime performance and scalability of AEM, and support for additional Power Systems™, System z®, and System x® systems
- Enhanced monitoring of the virtualized environment, providing administrators with the metrics needed to manage the use of both virtual and physical resources across all supported hypervisor environments, including storage and network resources
  - VMControl life-cycle management, image management, and server system pools for IBM x86 Kernel-based Virtual Machine (KVM) technology-based systems
  - The ability to suspend (hibernate) and resume a virtual server on KVM platforms
  - Support for the KVM virtualization environment, including the ability to create, edit, delete, and relocate virtual servers

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: SE001).

## Overview

IBM Systems Director V6.3 and its energy, networking, storage, and virtualization managers provide a unified family of platform management offerings with a common toolset for managing physical and virtual resources. IBM Systems Director is designed around a modular, industry-standards-based approach that leverages existing client investments in IBM platform management offerings and provides seamless integration with IBM Integrated Service Management offerings from Tivoli®.

IBM Systems Director is designed to help IT personnel be more effective by easily finding and identifying systems on the network, determining if those systems are working properly, and even configuring and deploying new systems.

The family of IBM Systems Director products helps to manage multiple IBM systems as a single entity, which aids in reducing virtualization complexity. This platform management family can help IT personnel address important IT challenges, such as keeping system firmware and drivers current, managing IT energy usage, and improving system availability.

IBM Systems Director V6.3 brings it all together to manage the physical and virtual infrastructures, improve deployment of resources, and take on many of the redundant, time-consuming management tasks in the data center. IBM Systems Director enables you to focus more on how IT can support your business rather than how you support the IT infrastructure.

Beginning with IBM Systems Director V6.3, many advanced management capabilities are packaged together, delivering an integrated solution right "out of the box." Whether you are a new user interested in basic functions or are ready to exploit energy and virtualization management capabilities, a new single product installation makes it easy to use the advanced features and functions without needing to install additional products at a later date. The trial period for use of the advanced functions has been expanded from 60 days to 90 days, and the start of the trial period can be activated by users at their discretion rather than the trial period beginning at installation time.

Advanced features and functions packaged with IBM Systems Director V6.3 include Systems Director V6.3 management server and agents, IBM Systems Director Active Energy Manager™ V4.4, IBM Systems Director Service and Support Manager V6.3, and IBM Systems Director VMControl™ V2.4. IBM Systems Director Network Control is available separately.

IBM Systems Director Active Energy Manager (AEM) V4.4 is designed to simplify the management of energy consumption across multiple IBM and non-IBM systems. AEM tracks energy use over time and can assist you in determining how to reallocate energy to additional servers without adding additional energy or cooling equipment. When energy is constrained, AEM is designed to allow energy to be allocated on a server to server basis. AEM provides a single view of the actual power usage across systems in your infrastructure as opposed to the benchmarked power consumption. AEM also integrates with facilities provider management software and sensors for monitoring power and cooling infrastructure. AEM monitoring functions are included with Systems Director V6.3 for no additional charge while the advanced AEM power and energy management functions are included with a 90-day trial. License keys for continued use can be purchased separately.

IBM Systems Director Service and Support Manager (SSM) V6.3 can monitor, track, and capture system hardware errors and service information and optionally report them directly to IBM support for you. SSM can examine hardware error events that IBM Systems Director receives and creates problem tickets as appropriate. SSM is now included with IBM Systems Director V6.3 for no additional charge.

IBM Systems Director VMControl (VMC) V2.4 simplifies workload management for rapidly deploying virtual appliances to create virtual servers that are configured with the operating system and software applications that you want. It also enables you to group resources into system pools, which enable you to centrally manage and control the different workloads in your environment. VMControl manages virtual appliances that use the Open Virtualization Format (OVF) for packaging, delivery, and deployment of preconfigured, ready-to-run solutions. Virtualization platforms supported include IBM Power Systems with PowerVM™, System x servers with Kernel-based Virtual Machine (KVM), VMware, and Hyper-V, and IBM System z servers with z/VM® and zEnterprise™. VMControl Express® virtual server life-cycle management functions are included with IBM Systems Director V6.3 for no additional charge. The VMControl Enterprise Edition functions for image

management and system pools are included with a 90-day trial, and license keys for continued use can be purchased separately.

IBM Systems Director Network Control V1.3 can discover, monitor, manage, and troubleshoot network devices in the computing environment. By enabling network management capabilities along with existing server and storage management capabilities, you can effectively manage a computing environment with a single integrated management tool that can improve the cost of computing. IBM Systems Director Network Control is positioned as a key component of IBM's integrated data center management technologies and services, which are part of the dynamic infrastructure and cloud computing strategy.

Systems Director Network Control is a priced plug-in product that leverages and extends the networking functions of the IBM Systems Director product. Systems Director includes a network management component that facilitates the management of Ethernet networks and networking devices. Systems Director Network Management V6.3 adds support for several new models of Ethernet switches and related networking devices.

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## Key prerequisites

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Refer to the [Hardware requirements](#) and [Software requirements](#) sections.

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## Planned availability date

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December 16, 2011

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## Description

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### **IBM Systems Director V6.3**

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IBM Systems Director V6.3 is a platform-management foundation that streamlines the way you manage physical and virtual systems across a heterogeneous environment. By using industry standards, IBM Systems Director supports multiple operating systems and virtualization technologies across all IBM platforms and non-IBM x86 platforms. IBM Systems Director V6.3 is the single point-of-control for managing data centers. It integrates IBM's best-of-breed virtualization capabilities to provide new and radically improved ways to simplify the management of physical and virtual platform resources.

A key feature of IBM Systems Director is a consistent user interface focused on driving common tasks. IBM Systems Director provides a unified view of the total IT environment, including servers, storage, and network. This allows end-user tasks to be driven with a single tool. IBM Systems Director performs life-cycle administration of physical, virtual, storage, and network-based resources in a data center from a single converged web-based user interface, from a command-line interface, or remotely via the Representational State Transfer (REST) interface.

IBM Systems Director V6.3 can reduce the total cost of ownership and decrease management costs by eliminating the need to maintain multiple tools and improving the utilization of existing IT resources. With IBM Systems Director V6.3, you can optimize the utilization of the heterogeneous hardware and systems software in your data center. This includes IBM Power Systems, IBM System x, IBM System z, and IBM BladeCenter® to IBM Storage Systems and select non-IBM servers (x86) -- as well as VMware, PowerVM, z/VM, and operating systems from Microsoft™ Windows™ and Linux™ on x86 platforms to AIX®, IBM i, and Linux platforms.

IBM Systems Director V6.3 delivers a suite of management tasks for the end-to-end platform management, including discovery, inventory, configuration, system health and status, resource monitoring, updates, event notification, and automation and call home for selected systems. IBM Systems Director V6.3 supports new hardware

and operating system platforms for discovery, inventory, status, configuration, and updates. This includes adding support for new devices and endpoint types plus enhancements to existing infrastructure support for endpoints.

IBM Systems Director V6.3 offers the following new enhancements:

- Improved usability, user and role management, and credential management.
  - User interface improvements with better feedback and progress reporting details.
  - Revamped getting started welcome page experience for new users.
  - Improved inventory views.
  - Easier resource monitoring, resource threshold, and configuration of automated action plans.
  - Enhanced health summary views.
  - More security, user management, and auditing capabilities.
- Simplified usability, including discovery, installation, service, and the update process.
- Simplified support of updates, upgrades, and backup/restore in a high availability environment.
- Simplified installation.
  - Installation pre-checker insures that required resources are in place for the install to be successful.
  - Single installation of IBM Systems Director, Service and Support Manager, Active Energy Manager, and VMControl enables simple setup and use. Enables a new user to get up and running faster while still providing advanced configuration options.
  - Systems Director's advanced managers are ready to use following installation.
  - Trial periods have been extended to 90 days, and they can be activated by the user when desired rather than at installation time. They can also be deactivated.
- Installation of DB2 Enterprise Server Edition with Systems Director V6.3, replacing Derby as the embedded management server database.
  - Improves performance and scaling for larger numbers of endpoints. More endpoints can be managed by the same Server instance.
  - Improves usability for Storage Control by eliminating the need to migrate from Derby to DB2, and to set up and configure the database to install and use Storage Control.
- Improved high availability scalability and performance.
- Improved reliability.
  - Reliable event support and reliable log support.
  - Reliable event delivery for more accurate hardware health status.
- SNMP V3 support.

#### **IBM Systems Director Active Energy Manager V4.4**

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IBM Systems Director Active Energy Manager (AEM) V4.4 is designed to simplify the management of energy consumption across multiple IBM and non-IBM systems. AEM tracks energy use over time and can assist you in determining how to reallocate energy to additional servers without adding additional energy or cooling equipment. When energy is constrained, AEM is designed to allow energy to be allocated on a server to server basis.

AEM is also designed to track and allocate energy consumption in a manner intended not to affect performance. Sensors and alerts can warn you if limiting energy to a server could affect performance. AEM is designed to increase your capability to control energy consumption and improve energy use efficiency by controlling energy use across the data center, and can limit server energy consumption by capping

maximum energy consumption, which can potentially result in savings and cost reductions.

AEM is designed to complement and integrate with higher-level management software such as Tivoli. AEM interfaces with IBM Tivoli Monitoring for Energy Management. AEM can help protect your IT investment through its open design and support for industry standards, which enables heterogeneous physical and virtual management with support for multiple platforms and operating systems. Certain non-IBM systems, legacy IBM systems, and IBM Storage Systems can be monitored through power distribution unit (PDU) support. In addition, AEM can collect information from select facility providers including Liebert's SiteScan from Emerson Network Power, InfraStruXure Central from APC, and Power Xpert and Foreseer from Eaton. Sensors from SynapSense, iButton, Sensatronics, SmartWorks, and Arch Rock are also supported, in order to provide a view of data center environmental data, and for equipment that does not have its own built-in sensors. AEM can perform monitoring and management functions for all supported systems from a single console.

AEM V4.4, included with the installation of IBM Systems Director V6.3, provides no-charge monitoring functions and a 90-day trial for the optional fee-based management functions.

AEM is designed to provide monitoring functions for devices that do not directly support AEM. Through the use of select PDUs, the energy usage of a device plugged into a supported PDU can be monitored by AEM. Examples of what these devices may be are older servers and low- and mid-range storage devices. The ability to monitor these devices helps to provide a more complete view of energy used in the data center. Additionally, AEM provides users power management functions for some PDUs. Through AEM, users can turn off individual outlets on a PDU. This allows administrators to prevent the plugging in of unauthorized equipment. It also provides a way to quickly cut power usage in case of emergencies. Some PDUs provide the capability of attaching an environment probe. This probe could measure temperature or humidity. This information can also be collected by AEM.

#### **Active Energy Manager Monitoring functions (No Charge)**

- Power trending is a monitoring function that displays energy use for individual systems or groups of systems over time (in a graph or table format) to help enable you to understand energy use trends within and across your systems.
- Thermal trending is a monitoring function that displays information on the inlet and exhaust temperatures for individual systems one at a time to help you understand thermal characteristics of your systems. Incorporating this data into one centralized software-based energy use offering allows finite and localized temperature adjustments within the IT shop to help reduce energy costs for cooling.
- Support for facility providers is a function that retrieves information from Emerson Network Power's SiteScan application, APC's InfraStruXure Central, and Eaton's Power Xpert and Foreseer.
- Support for sensors is a function that retrieves temperature and power information via sensors. Supported vendors include SynapSense, iButton, Sensatronics, and Arch Rock. Sensor data can be associated with IBM Systems Director-managed resources. These provide a broader scope of energy information across systems within the data center, while including a view of facilities equipment.
- Power and cooling relationships can be configured to servers for all of the above PDUs, sensors, and equipment discovered from the infrastructure management providers. This allows energy data and events to be associated with the servers that use them.
- AEM allows management of intelligent PDU outlets. You can use AEM to turn on, turn off, or reboot individual power outlets on supported PDUs.

#### **Active Energy Manager Management functions (Priced)**

- Power capping is designed to allow you to set a maximum power level per system. If the system starts to consume more than the maximum level set,

AEM is designed to throttle the processor to use less power, which slows down the system. Setting the cap will ensure that the system will not use more than the cap value, thus allowing the user to allocate less power for that system. For example, setting an AC power cap on an existing system, or group of systems, could allow for the addition of systems while staying within the capacity of the data center's electrical infrastructure.

- Power saver mode is designed to allow you to manage your power use as work activity shifts across various demands. Static power saving mode is enabled via an on/off switch, which you can schedule during times of low utilization, or a script can be written so that it can be switched automatically, based on processor utilization.

### **IBM Systems Director Service and Support Manager V6.3**

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Systems Director Service and Support Manager is now delivered and installed with IBM Systems Director V6.3.

The call home support offered by SSM requires that the Systems Director management server have access to the Internet to be able to open problem tickets for managed endpoints and to transmit the data that IBM needs to provide service for the managed endpoints. For systems that do not have Internet access, SSM adds new capabilities to move the data needed by support to a system that does have Internet access. SSM supports the ability to off-load the service data to a USB drive with improved file size limits, or use FTP to transmit the support files from the Systems Director management server to another system. SSM V6.3 also provides support for customers to download the support files from the user interface (UI) to the system that the IBM Systems Director UI is running on. In addition, SSM has enhanced the support files UI to allow you to more easily collect the data that the support team is asking for.

SSM automatically collects the service data needed when creating a problem ticket. If the problem ticket is for IBM System x hardware (server or blade), part of the service data required is the output from running the Dynamic System Analysis (DSA) tool. SSM has implemented the ability to dynamically download the DSA tool to ensure that the correct version of DSA is run.

SSM examines hardware error events that IBM Systems Director receives and creates problem tickets as appropriate. When the managed endpoints are running virtual operating systems, the errors that Director receives from the virtual OS often reflect the virtual hardware not the actual hardware. With V6.3, SSM implemented the ability to listen to hardware errors that the service processor detects, since the service processor has visibility to the real hardware. In V6.3 this support is limited to the Integrated Management Module (IMM) Version 1, which runs on x86 servers.

### **IBM Systems Director VMControl V2.4**

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IBM Systems Director VMControl (VMControl) V2.4 provides management simplification, improves system efficiencies within the data center, and leverages the flexibility and power of virtualization for single systems and pools of cooperating systems. The decoupling of the client's workload from the underlying systems and the dynamic flexibility to move resources and virtual machines allow IBM Systems Director VMControl to provide significant value in managing today's complex and heterogeneous data centers.

IBM Systems Director VMControl V2.4 virtual server life-cycle management is included with the IBM Systems Director V6.3 installation package. Optional fee-based image management and system pools features are available with a 90-day trial and can be purchased separately. The trial periods can be activated by users when they are ready, rather than at installation time. VMControl is available with IBM Systems Director V6.3 on all IBM server platforms and can be licensed to manage images and systems pools across platforms, where support is available.

The features included with VMControl V2.4 provide a suite of management tasks for managing virtual resources, provisioning virtual images with dynamic resource allocation, and automating the management of system pools. VMControl V2.4 can

manage virtual server images and system pools of IBM System x servers running with the KVM hypervisor on RHEL 6.x.

### **IBM Systems Director Network Control V1.3**

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IBM Systems Director Network Control software is designed to simplify and automate the management of IBM and non-IBM network environments via integrated server, storage, and network management. IBM Systems Director Network Control leverages network management functionality from IBM Systems Director and vendor-based configuration applications.

IBM Systems Director Network Control is designed to provide integrated management of network environments by simplifying network management tasks, which can potentially result in savings and cost reductions. IBM Systems Director Network Control is intended to help you:

- Simplify management of multivendor network devices.
- Automate network management tasks.
- View both physical and virtual networks and network devices.
- View and manage VLANs for networking devices and host systems.
- Leverage new converged fabric network technology to reduce IT cost.
- Integrate configuration of convergence enhanced Ethernet (CEE) settings for Brocade switches (requires IBM Data Center Fabric Manager).

IBM Systems Director Network Control V1.3, along with IBM System Director V6.3 and Storage Control V4.2.1.1, provides a single management tool for the computing environment that can help to reduce overall IT management cost. IBM Systems Director Network Control V1.3 can help protect your IT investment through its open design and support for industry standards, which enable heterogeneous physical and virtual management with support for multiple platforms and operating systems.

Some of the devices supported by IBM Systems Director Network Control V1.3 using Network Management in IBM Systems Director V6.3 are:

- IBM BladeCenter supported switches and blade NICs
- QLogic FCoCEE adapters
- Brocade FCoCEE switches and Brocade Fibre Channel switches
- Juniper Ethernet switches
- BNT® CEE switch modules
- Cisco FCoCEE switches

For an updated list of supported devices, visit

<http://publib.boulder.ibm.com/infocenter/director/pubs/index.jsp>

**Note:** IBM Systems Director V6.3 Information Center will be published on or before December 16, 2011.

IBM Systems Director Network Control V1.3 is a priced plug-in to IBM Systems Director V6.3. It enhances the no-charge network management component in IBM Systems Director V6.3 that provides basic network management function to end users, such as the ability to discover, inventory, and monitor network devices.

The IBM Systems Director Network Control V1.3 offering enables deeper management of network devices via enhanced vendor application integration and provides discovery and topology views of network connectivity.

Installation of Network Control includes a 90-day trial license that allows all of the Network Control capabilities to be enabled for test and evaluation. A permanent license can be purchased and installed at any time. After the evaluation period, all Network Control capabilities will be disabled.

## Accessibility by people with disabilities

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A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

## Section 508 of the US Rehabilitation Act

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The offerings in this announcement are capable as of December 16, 2011, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the US Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

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## Reference information

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This announcement provides updated information to already announced programs which may be referenced below.

Program	V.R.M.	Announce date	PIDs
IBM Systems Director	6.2.0	04/13/10	5765-DRX 5765-DRA

Refer to:

- Software Announcement [210-110](#), dated April 13, 2010

Program	V.R.M.	Announce date	PIDs
IBM Systems Director Active Energy Manager	4.3.0	04/13/10	5765-AEX

Refer to:

- Software Announcement [210-089](#), dated April 13, 2010

Program	V.R.M.	Announce date	PIDs
IBM Systems Director Network Control	1.2.0	07/20/10	5641-NC1 5641-NC3

Refer to:

- Software Announcement [210-215](#), dated July 20, 2010

## Business Partner information

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<https://www.ibm.com/partnerworld/mem/sla.jsp?num=211-400>

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

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## Evaluation software

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	Electronic (preferred)	Physical
At announcement	No	No
By planned availability	Yes	No

Is there support available? No

### **Ordering process and support availability**

IBM Systems Director V6.3 is licensed under the terms of the IBM International Program License Agreement (IPLA). IBM Systems Director V6.3 and IBM Systems Director Network Control V1.3 may be downloaded from the IBM Systems Director website at

<http://www.ibm.com/systems/software/director/downloads/mgmtservers.html>

If you download from the web, you are offered to activate and evaluate the Active Energy Manager management functions and VMControl Enterprise Edition for up to 90 days under the terms of the IBM International License Agreement for Evaluation of Programs (ILAE). During the evaluation period, an option to purchase a permanent license will be offered. If a permanent license is purchased, a keyfile for the product will be shipped on a CD-ROM. When installing the keyfile, no changes are made to AEM or VMControl and all functions will continue to work.

If an AEM permanent license is not purchased and installed, then the AEM management functions will be disabled when the evaluation period ends; however, AEM monitoring functions will continue to work after the evaluation period ends. The AEM keyfile is designed to operate with all release levels of AEM V4 and does not need to be reordered or reinstalled for customers migrating from a prior release of AEM V4 to AEM V4.4. AEM monitor functions do not require the keyfile to remain enabled. AEM monitoring functions and the key-enabled management functions are licensed under the terms of the IBM International Program License Agreement (IPLA).

If a VMControl Enterprise Edition license is not purchased and installed, then these advanced functions will be disabled when the evaluation period ends; however, the VMControl Express Edition functions will continue to work after the evaluation period ends. VMControl Express Edition functions do not require the keyfile to remain enabled. VMControl Express and the key-enabled Enterprise Edition functions are licensed under the terms of the IBM International Program License Agreement (IPLA).

### **Publications**

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No licensed hardcopy publications are shipped with these programs. Publications are available in US English versions from the IBM Systems Director Information Center.

The IBM Systems Director Information Center provides you with a single information center where you can access product documentation for IBM systems hardware, operating systems, and server software. Through a consistent framework, you can efficiently find information and personalize your access. The IBM Systems Director Information Center is at

<http://publib.boulder.ibm.com/infocenter/director/pubs/index.jsp>

**Note:** IBM Systems Director V6.3 Information Center will be published on or before December 16, 2011.

To find information, you can search, browse the contents, follow links from one topic to related topics, and print the topics you want to read offline.

Printable documents:

- IBM Systems Director Hardware and Software Support Guide
- IBM Systems Director Systems Management Guide
- IBM Systems Director Troubleshooting Guide
- IBM Systems Director Commands Reference
- IBM Systems Director Events Reference
- IBM Systems Director Hardware Command Line Interface User's Guide

- IBM Systems Director for Linux on x86 Planning, Installation, and Configuration Guide
- IBM Systems Director for Windows Planning, Installation, and Configuration Guide

These publications can be downloaded and viewed from the IBM Systems Director Resources and Documentation website at

<http://www.ibm.com/systems/software/director/resources.html>

## Hardware requirements

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IBM Systems Director V6.3 supports these IBM platforms (see detailed information for supported versions) with a supported operating system:

- IBM System x
- IBM BladeCenter

For more detailed information, visit

[http://publib.boulder.ibm.com/infocenter/director/pubs/topic/com.ibm.director.plan.helps.doc/fqm0\\_r\\_hardware\\_compatibility.html](http://publib.boulder.ibm.com/infocenter/director/pubs/topic/com.ibm.director.plan.helps.doc/fqm0_r_hardware_compatibility.html)

**Note:** IBM Systems Director V6.3 Information Center will be published on or before December 16, 2011.

## Software requirements

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### Operating systems supported by IBM Systems Director V6.3

IBM Systems Director V6.3 provides support for many operating systems. Support varies depending on the selected hardware and IBM Systems Director component. Starting in Version 6.1, IBM Systems Director provides a web interface for use with IBM Systems Director Server. IBM Director Console is no longer required. However, some tasks in the web interface require the IBM Systems Director Launched Tasks program. When preparing to install IBM Systems Director, consider the following information:

Unless stated otherwise, IBM Systems Director provides Agentless support for all operating systems listed.

**Note:** IBM Systems Director Network Control V1.3 is not supported on Windows Server 2003.

Operating system	IBM Systems Director	Common Agent	Platform Agent
Editions of windows for 32-bit systems:			
Windows Server 2003 Datacenter Edition, Release 2 (supports Service Pack 2)		X	X
Windows Server 2003, Enterprise and Standard Editions, Release 2 (supports Service Pack 2)	X	X	X
Windows Server 2003 Datacenter Edition (supports Service Pack 2)		X	X
Windows Server 2003, Enterprise and Standard Editions (supports Service Pack 2)	X	X	X
Windows Server 2008 Datacenter Edition (supports Service Packs 1 and 2)		X	X
Windows Server 2008, Enterprise and Standard Editions (supports Service Pack 1 and 2)	X	X	X
Windows Vista, Business, Enterprise and Ultimate Editions		X	X

Windows XP Professional Edition (supports Service Packs 2 and 3)		X	X
	IBM Systems Director	Common Agent	Platform Agent
Operating system			
Editions of Windows for 64-bit systems:			
Windows Server 2003 Datacenter x64 Edition Release 2 (supports Service Pack 2)		X	X
Windows Server 2003, Enterprise and Standard x64 Editions, Release 2 (supports Service Pack 2)	X	X	X
Windows Server 2003 Datacenter x64 Edition (supports Service Pack 2)		X	X
Windows Server 2003, Enterprise and Standard x64 Editions (supports Service Pack 2)	X	X	X
Windows Server 2008 Datacenter x64 Edition (supports Service Packs 1 and 2)		X	X
Windows Server 2008, Enterprise and Standard x64 Editions (supports service packs 1 and 2)	X	X	X
Windows Server 2008 Datacenter x64 Edition Release 2 (with or without Service Pack 1)		X	X
Windows Server 2008, Enterprise and Standard x86 Editions Release 2 (with or without Service Pack 1)	X	X	X
Windows Server 2008, Datacenter, Enterprise and Standard x64 Editions with Hyper-V role enabled (supports Service Packs 1 and 2)		X	X
Windows Server 2008, Datacenter, Enterprise and Standard x86 Editions Release 2 with Hyper-v role enabled (with or without Service Pack 1)		X	X
Windows Vista, Business, Enterprise and Ultimate x64 Editions		X	X
Windows XP Professional x64 Edition (supports Service Packs 2 and 3)		X	X

	IBM Systems Director	Common Agent	Platform Agent
Operating system			
Versions of Linux for 32-bit systems:			
Red Hat Enterprise Linux AP, version 5.0 (supports updates: 1 = Agent; 2, 3, 4, 5, 6, 7 = Server & Agent)	X	X	X
Red Hat Enterprise Linux, version 5.0 (supports updates: 1 = Agent; 2, 3, 4, 5, 6, 7 = Server & Agent)	X	X	X
Red Hat Enterprise Linux Desktop with Workstation Option version 5.0 (supports updates 1, 2, 3, 5, 6, 7)		X	X
Red Hat Enterprise Linux (all three editions) version 5.0 with Xen Kernel (supports updates 1, 2, 3, 5, 6, 7)			X
Red Hat Enterprise Linux AP, version 6.0 (with or without Service Pack 1)	X	X	X
Red Hat Enterprise Linux, version 6.0 (with or without Service Pack 1)	X	X	X
Red Hat Enterprise Linux Desktop with Workstation Option version 6.0 (with or without Service Pack 1)		X	X
SUSE Linux Enterprise Server 10 for x86 (Supports updates: 1 = Agent;			

2, 3, 4, = Server & Agent)	X	X	X
SUSE Linux Enterprise Server 10, with Xen Kernel (Service Packs 1, 2, 3, 4)			X
SUSE Linux Enterprise Server 11 for x86 (with or without Service Pack 1)	X	X	X
VMware ESX Server (Versions 4.0, 4.0.1, 4.0.2, 4.0.3, 4.1, 4.1.1) Console		X	X
VMware ESX Server (Versions 4.0, 4.0.1, 4.0.2, 4.0.3, 4.1, 4.1.1) guest operating systems	X	X	X

**Note:** Supported guest operating systems are those that are supported by both IBM Systems Director and the specified version of VMware. See the VMware product documentation for a list of supported operating systems.

Operating system	IBM Systems Director	Common Agent	Platform Agent
Versions of Linux for 64-bit systems:			
Red Hat Enterprise Linux AP, version 5.0 for AMD64 and EM64T (Supports updates: 1 = Agent; 2, 3, 4, 5, 6, 7 = Server & Agent)	X	X	X
Red Hat Enterprise Linux, version 5.0 for AMD64 and EM64T (Supports updates: 1 = Agent; 2, 3, 4, 5, 6, 7 = Server & Agent)	X	X	X
Red Hat Enterprise Linux Desktop with workstation version 5.0, for AMD64 and EM64T (Updates 1, 2, 3, 4, 5, 6, 7)		X	X
Red Hat Enterprise Linux (all three editions) version 5.0, for AMD64 and EM64T with Xen Kernel (Updates 1, 2, 3, 4, 5, 6, 7)			X
Red Hat Enterprise Linux AP, version 6.0 for AMD64 and EM64T (with or without Service Pack 1)	X	X	X
Red Hat Enterprise Linux, version 6.0 for AMD64 and EM64T (with or without Service Pack 1)	X	X	X
Red Hat Enterprise Linux Desktop with Workstation Option version 6.0 for AMD64 and EM64T (with or without Service Pack 1)		X	X
SUSE Linux Enterprise Server 10 for AMD64 and EM64T (Supports updates: 1 = Agent; 2, 3, 4, = Server & Agent)	X	X	X
SUSE Linux Enterprise Server 10 for AMD64 and EM64T, with Xen Kernel (Service Packs 1, 2, 3, 4)			X
SUSE Linux Enterprise Server 11 for AMD64 and EM64T (with or without Service Pack 1)	X	X	X

For additional information, visit

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**Note:** IBM Systems Director V6.3 Information Center will be published on or before December 16, 2011.

## Packaging

Beginning with IBM Systems Director V6.3, many advanced management capabilities are packaged together, delivering an integrated solution that is preconfigured.

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IBM Systems Director V6.3 supports the following languages:

- Brazilian Portuguese
- Chinese (simplified)
- Chinese (traditional)
- English
- French
- German
- Italian
- Japanese
- Korean
- Spanish

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## Charge Metrics

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GC52-1314 Systems Director V6.3  
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