



IBM Systems Director Editions for Power Systems , V6.2 help efficiently manage server infrastructures

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At a glance

IBM® Systems Director Editions for Power® offer an integrated set of tools to help IT organizations address the challenges associated with managing both physical and virtual server infrastructures. IBM Systems Director Editions make it easier and more cost-effective for you to purchase the capabilities you need to manage IBM server systems versus buying individual plug-in features separately.

The main features in the IBM Systems Director Editions are:

- Monitor and repair system status
 - A cross-platform console for collaboration when troubleshooting problems
 - Monitoring of energy and thermal characteristics
 - Identifying changes that may impact availability
- Deploy and optimize workloads
 - Heterogeneous virtualization management across multiple hardware platforms and hypervisors
 - Tools to configure LPAR mobility for increased utilization, virtual image management from a central repository, and automated provisioning within a pool of LPARs that exist on multiple servers
 - Static or dynamic optimization of energy use across one or more systems
- Plan and document the service infrastructure
 - Automated discovery of physical and virtual servers and interconnections, applications, supported third-party networking, and energy monitoring systems
 - Server resource utilization by virtual machine or across a rack of systems
 - Predictive analysis and reporting, including energy use, thermal output, and server resource performance analysis

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: RE001).

Overview

IBM Systems Director Editions V6.2 are designed to reduce operational complexity, improve the efficiency of IT staff and systems, and control costs while meeting business requirements for service delivery.

IBM Systems Director Editions V6.2 make it easier and more cost-effective for you to purchase the capabilities you need to manage IBM server systems versus buying

individual plug-in features separately. Each Edition bundles related management features that are pretested and updated. Also, software maintenance renewal for all features is aligned, reducing the administrative burden of keeping your support up to date.

The IBM Systems Director Editions have been updated to include the latest release level of Systems Director 6.2, Active Energy Manager 4.3, VMControl 2.3, Network Control 1.2., Tivoli® Monitoring Agents for System p® V6.2.2 and DB2® Enterprise Server Edition V9.7.

- Refer to Software Announcement [210-085](#), dated April 13, 2010, for IBM Systems Director VMControl™ Editions for Power Systems™, V2.3.
- Refer to Software Announcement [210-075](#), dated April 13, 2010, for IBM Systems Director Active Energy Manager™ for Power Systems, V4.3.
- Refer to Software Announcement [210-087](#), dated April 13, 2010, for IBM Systems Director Network Control, V1.2.
- Refer to Software Announcement [210-093](#), dated April 13, 2010, for IBM Systems Director for Power Systems, V6.2.

The IBM Systems Director Express® Edition includes a set of management tools that can reduce operational complexity by providing the ability to remotely discover, monitor, configure, and update your Power servers.

The IBM Systems Director Express Edition provides:

- Automated discovery and topology views to simplify troubleshooting across physical and virtual IBM server, network, and storage resources
- Heterogeneous virtualization management across Power Systems servers running IBM AIX®, IBM i, and Linux® workloads
- Simplified installation and update processes of operating systems and system firmware, including hardware management consoles (HMC)
- Automatic reporting of hardware problems and collection of system service information for monitored systems
- Launch-in-context integration with the HMC
- Easy-to-learn tasks with intuitive wizards, tutorials, and integrated help

IBM Systems Director Standard Edition includes features that can reduce the time and effort for workload deployment, as well as optimize energy usage and capacity.

The IBM Systems Director Standard Edition provides:

- All features of the IBM Systems Director Express Edition
- Import, capture, and deletion of industry-standard virtual appliances (AIX or Linux) stored in repositories via a centralized library
- Ability to deploy industry-standard virtual appliances
- Monitoring and trend analysis of electrical energy usage and thermal characteristics for selected IBM systems
- Monitoring of legacy systems via supported facilities equipment such as uninterruptible power supplies, power distribution units, sensors, probes, and computer room air conditioning units
- Features for setting energy usage limits across one or more servers
- Energy saving modes that can take into account processor utilization and the altitude of the data center facility
- Features to discover, inventory, and monitor network devices and view groups of network devices

The IBM Systems Director Enterprise Edition features enable automated resource provisioning and balancing required for a dynamic infrastructure. Enterprise Edition also provides enterprise management tools for advanced troubleshooting, capacity analysis, and reporting.

The IBM Systems Director Enterprise Edition provides:

- All features of the IBM Systems Director Express and Standard Editions
- Creation/removal of AIX and Linux system pools and resource management in system pools as if they were a single system
- Addition/removal of physical servers within system pools, which offers:
 - Dynamic and intelligent placement of virtual servers
 - System efficiencies and resilience via virtual server mobility
 - Deployment of virtual appliances into system pools
 - Ability to capture virtual appliances from system pools
 - Ability to group virtual servers into workloads and monitor resource utilization
 - Automated relocation and placement of virtual servers in response to predicted host system failures as per policy setting
 - Simplified monitoring via system pools and workload dashboards
- Visualization of the relationships of LPARs to servers to applications
- Proactive real-time and predictive monitoring of the virtualized environment
- Predictive performance management and capacity estimation
- Advanced discovery to understand configurations and dependencies among applications, map applications and changes, and address compliance measures
- Capability to monitor and optimize performance and availability across the IT infrastructure, including operating systems, applications, databases, middleware, and servers through a single customizable workspace portal
- Advanced cross-enterprise energy management to manage, optimize, and report energy usage for IT, data center, facilities, and enterprise assets
- Central location for management of information on all IT resources, including applications and images
- Common reporting of analytics across all IT resources and enterprise assets

The components of the Systems Director Editions are also separately available.

IBM AIX Enterprise Edition V6.1.1

AIX Enterprise Edition includes the Systems Director Enterprise Edition as a component of AIX Enterprise Edition. The AIX 6 operating system is available in three different editions:

- AIX Express Edition is designed to deliver AIX functionality at a lower price point for workloads such as the consolidation of smaller workloads on a larger server or for workloads running on smaller systems that do not need the vertical scalability of AIX Standard Edition.
- AIX Standard Edition includes only the AIX operating system, expansion pack, and other commonly used software such as an Internet browser.
- AIX Enterprise Edition includes all the features of the Standard Edition and additional management software designed to complement the features of AIX 6.

Refer to Software Announcement [210-011](#), dated February 09, 2010.

Key prerequisites

Any of these IBM platforms with supported operating system:

- IBM Power Systems
- IBM System p
- IBM System i®
- IBM BladeCenter®

IBM Systems Director Editions require one of the following operating systems:

- AIX V5.3

- AIX V6.1
- Novell SUSE Linux Enterprise Server 10 for POWER
- Novell SUSE Linux Enterprise Server 11 for POWER
- Red Hat Enterprise Linux AS 4 for POWER
- Red Hat Enterprise Linux AP 5 for POWER

Planned availability date

July 30, 2010

Description

IBM Systems Director Express Edition

IBM Systems Director Express Edition consists of the following:

- IBM Systems Director V6.2
- IBM Systems Director VMControl Express Edition for Power Systems, V2.3
- IBM Systems Director Service and Support Manager V6.2
- IBM Systems Director Transition Manager V6.2 for HP Systems Insight Manager

These components are also available separately.

IBM Systems Director V6.2

IBM Systems Director V6.2 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. IBM Systems Director V6.2 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 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, command-line interface, or remotely via the Representational State Transfer (REST) interface.

IBM Systems Director V6.2 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.

IBM Systems Director V6.2 delivers a suite of management tasks for end-to-end platform management, including discovery, inventory, configuration, system health and status, resource monitoring, updates, event notification, and automation. IBM Systems Director V6.2 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 V6.2 offers the following new features and enhancements:

- Simplifies the overall usability, including discovery, installation, and the update process:
 - New "Authorize User Group" and "Remove User Group" buttons added to the user interface.

- Simplified discovery through a single interface to more easily discover target systems, exclude systems, and use predefined and user-created discovery profiles.
- Summary status view that is visible at all times while managing systems via the Web console to indicate the number of systems that are having problems or out of compliance.
- Simplification of the update process by providing a single-button update capability.
- Full installer refresh and migration from Version 6.1 and new installation images for Platform Agent, Common Agent, and Management Server across the different platforms.
- Streamlined initial Version 6.2 management server installation with future Version 6.2 patches and updates.
- Streamlined legacy Launch in Context (LiC) task to the Web browser. Remove all IBM Director V5.x legacy UIs and dependence on "mini-console" infrastructure and redesign legacy UIs to match rest of IBM Systems Director Web console.
- Security improvements with firewall friendliness and auditing compliance.
- Ability to put endpoint (MEP) resource in maintenance mode.
- Enhances the data center integration with Tivoli and other third-party management solutions:
 - Increased IT and business agility by reducing complexity and increasing robustness and reliability of infrastructure management and seamless linkage into enterprise management solutions via seamless integration of Systems Director into Tivoli
 - IBM Systems Director Software Development Kit (SDK) update documenting and externalizing the REST interface based on JAX-RS specifications and asynchronous notification framework based on JMS specification
 - Enhanced integration with Tivoli to better manage and troubleshoot by launching Systems Director product tasks from Tivoli consoles, eliminating the need to switch consoles
 - Enhanced auditing and security components to verify and set up LDAP configuration from the Web interface
- Supports new platform and operating system updates:
 - IBM Systems Director V6.2 components (IBM Systems Director Server, Common Agent, and Platform Agent) can be installed and run on IPv6 platforms and can discover and unlock endpoints using IPv6.
 - Currency and operating system updates are included.
- Provides availability, performance, and scalability enhancements:
 - Improved performance and scalability by leveraging Java™ Persistence Query Language (JPQL) and a Java Persistence API (JPA)-based database infrastructure
 - Increased performance and scalability for managing large environments with new 64-bit support for the Systems Director management server
 - Ability to change the IP address on the system running the IBM Systems Director Server
 - Remote management of multiple servers via a single global IBM Systems Director Server using the hierarchical management interface
 - Alert delivery by Common Agent

IBM Systems Director VMControl Express Edition for Power Systems, V2.3

IBM Systems Director VMControl Express Edition provides the user with cross-platform virtual server life cycle management. In addition, VMControl Express Edition offers virtual server relocation tasks, including the ability to create, edit, delete, and move virtual servers from a single tool in a consistent fashion on all of the supported hypervisors and IBM platforms.

IBM Systems Director VMControl Express Edition virtual server life cycle management provides:

- Management of the life cycle of your virtual resources (such as virtual servers and virtual farms) from a single interface for many different virtualization technologies from a single console
- A virtual server life cycle management and relocation solution for VMware vCenter 4.1 Platform Manager, allowing for full integration into the IBM Systems Director capabilities for monitoring, automation, and management
- A virtual server life cycle management solution for the Microsoft® Hyper-V V2 hypervisor, allowing for full integration in the IBM Systems Director capabilities for monitoring, automation, and management
- A virtual server life cycle management solution for z/VM®, allowing for full integration into IBM Systems Director capabilities for management
- A complete virtual server life cycle management solution for PowerVM™, allowing for full integration into IBM Systems Director capabilities for monitoring, automation, and management
- Simplified user experience with intuitive wizards, tutorials, and integrated help

IBM Systems Director Service and Support Manager V6.2

The IBM Electronic Service Agent™ tool is integrated with Service and Support Manager. It automatically monitors and collects hardware problem information and sends this information to IBM support. It also can collect hardware, software, and system configuration information, which may help IBM support assist in diagnosing problems.

IBM support representatives use system problem descriptions and service information to better diagnose issues with your systems. IBM can proactively assist you in achieving higher availability and better system performance, using the data that Electronic Service Agent provides about potential problems.

Service and Support Manager includes the following features:

- Places service calls to IBM automatically if the server is under a service agreement or warranty.
- Collects and securely sends scheduled system inventory and diagnostic inventory to IBM. This inventory information is available to IBM support representatives when they are solving your problem.
- Communicates with IBM using a secure connection using encryption and authentication.
- Includes the option to send e-mail notifications when a serviceable problem is detected and service request is opened.
- Scales to meet the size of your IT environment.

Service and Support Manager continuously monitors your system. You can receive error messages any time, day or night. You can identify potential problems that could affect performance or lead to an outage. All of this can help you achieve better system availability.

IBM Systems Director Transition Manager V6.2 for HP Systems Insight Manager

IBM Systems Director Transition Manager V6.2 for HP Systems Insight Manager is an IBM Systems Director plug-in. Transition Manager can discover systems that are being managed by HP Systems Insight Manager and smoothly make the transition to managing the systems in IBM Systems Director. Transitioned systems can be either IBM or non-IBM hardware.

You can view your HP Systems Insight Manager managed systems, run transition tools that discover those systems, and start essential IBM Systems Director tasks. It also provides the ability to see events from HP systems and create Event Actions Plans based on them, making it easier for users with HP Systems Insight Manager platform management experience to begin using IBM Systems Director.

After the transition is complete, you can manage the systems using IBM Systems Director, which can provide superior systems management features for IBM

hardware. Additionally, you can still manage the systems using HP Systems Insight Manager.

IBM Systems Director Standard Edition

IBM Systems Director Standard Edition contains all of Express Edition plus the following components:

- IBM Systems Director Standard Edition Launchpad V6.2
 - Note:** The following components are also available separately.
- IBM Systems Director Active Energy Manager V4.3
- IBM Systems Director VMControl Standard Edition for Power Systems, V2.3
- IBM Systems Director Network Control V1.2

IBM Systems Director Standard Edition Installation Launchpad V6.2

IBM Systems Director Standard Edition Installation Launchpad V6.2 enables customers to install and configure the components of Standard Edition.

IBM Systems Director Active Energy Manager V4.3

Active Energy Manager (AEM) V4.3, an IBM Systems Director V6.2 plug-in, 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, which can potentially result in savings and cost reductions.

AEM has the ability to monitor and manage energy for POWER7™ servers.

AEM is intended to help you:

- Increase energy use efficiency by controlling energy use across the data center
- Negotiate competitive utility rates based on accurate energy use trend assessments
- Limit server energy consumption by capping maximum energy consumption
- Perform server-to-server energy consumption comparisons

By enabling you to meter energy use and trend historical data, AEM is designed to help reduce energy costs in the data center. AEM is also designed to complement and integrate with higher-level management software such as Tivoli. AEM interfaces with the IBM Tivoli Monitoring products and other Tivoli products.

AEM V4.3 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. AEM V4.3 is designed to provide monitoring functions for devices that can connect to select power distribution units (PDUs). This enables monitoring functions for some systems that do not have support for AEM; for example, older servers and low- and mid-range storage devices. By plugging these systems into an intelligent PDU (a smart power strip), AEM is designed to be able to collect energy information from I/O drawers plugged into the PDU, providing a more complete view of energy used in the data center.

Additionally, AEM provides users power management functions for intelligent PDUs. Through AEM, users can turn off individual outlets on the PDUs. This allows administrators to prevent the plugging in of unauthorized equipment in a rack. It also provides a way to quickly cut power usage in case of emergencies. New in this release is support for PDUs from Server Technologies and Geist.

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 V5.1 and V6.0, and Eaton's Power Xpert Meter V2.0 and Foreseer. Numerous attributes associated with the energy usage of power and cooling equipment can be collected and made available through AEM. This provides a broader scope of energy information within the data center while including a view of facilities equipment. New in this release is the ability to integrate with the newest releases of these products.

Eaton's Power Xpert V2.0 and Power Xpert Reporting V2.0 are supported for monitoring power and cooling infrastructure with AEM 4.3.

Support for sensors is a function that retrieves temperature and power information via sensors. Supported vendors include SynapSense, iButton, Sensatronics, and Arch Rock. In AEM V4.3, this sensor data can now be associated with Systems Director-managed resources. This provides a broader scope of energy information across systems within the data center, while including a view of facilities equipment.

In addition, 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.

Power capping is designed to allow you to set a maximum energy 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 energy, which slows down the server. This feature is designed to come into play if it gets too warm in the data center. 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. New in AEM 4.3 is the ability to set power limits using ac power. Previous versions of AEM only supported capping dc power; however, data center managers are more interested in tracking ac power.

Power saver mode is designed to allow you to manage your energy 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. Users can choose to put systems in this mode when they are not being used heavily, or can do this automatically. This can result in significant energy cost savings.

IBM Systems Director VMControl Standard Edition for Power Systems, V2.3

IBM Systems Director VMControl V2.3 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. VMControl has been enhanced to provide support and virtual appliance enhancements for IBM Power Systems running the Linux operating system.

New enhancements added to VMControl Standard Edition V2.3 allow virtual appliances to be:

- Deployed, captured, and managed for Linux
- Managed in repositories including deletion, search, and version control
- Captured from virtualized workloads

VMControl Standard Edition enables a complete set of image management tools that builds upon the capabilities offered in the previous release with additional tasks to search, delete, and manage virtual machine images (also known as *virtual appliances*) for Power Systems.

VMControl Standard Edition is designed to simplify the management of virtual environments across multiple virtualization technologies and physical platforms to support the growing requirements of a dynamic infrastructure. IBM Systems Director VMControl Standard Edition provides support to manage and automate the deployment of virtual appliances (images) from a centralized location. A virtual appliance is a *single system image*, consisting of an operating system instance and the software stack running on that operating system (for example, middleware and applications). A virtual appliance can be captured from a running system or imported from an industry-standard (OVF) package. A full-function graphical user interface and command-line interface is also designed to help improve productivity by allowing you to decide which virtual appliance management tasks to perform and which information you want to be displayed.

VMControl Standard Edition delivers support that controls the life cycle, provisioning, and configuration of virtual appliances. It captures information from active systems and stores the information in a repository of system images. IBM Systems Director VMControl Standard Edition enables the creation and management of virtual servers when deploying AIX (by leveraging NIM) and Linux on Power virtual appliances. The definition of these system images is based on Open Virtualization Format (OVF) specifications.

VMControl Standard Edition allows new virtual appliances to be created by importing OVF standard packages or capturing running virtual servers. You can import a virtual appliance that is based on the open standards format defined for virtual appliances. This feature provides interoperability with external ways of creating virtual appliances, as well as a means of transporting your virtual appliances. You can also create a virtual appliance by capturing a fully-tested, running software stack (operating system, middleware, and applications) on supported virtual servers.

The virtual appliances within VMControl are kept in platform-specific repositories. VMControl supports the discovery of multiple repositories of multiple types and presents a central point of control with common cross-platform functions for the management of the repositories and virtual appliances within the repositories. The virtual appliances within all repositories can be viewed from this interface, and actions, such as deploy, can be taken on individual virtual appliances from this interface.

Deployment of virtual appliances is a key function for VMControl, which includes support for multiple IBM servers. It provides a simplified, streamlined interface integrated with IBM System Director to select a virtual appliance and request that it be deployed to an existing virtual server or to a new virtual server. As part of the request to deploy, you can optionally customize the virtual appliance for the target environment for such aspects as networking and initial boot configuration. As the deployment process occurs, you can view the progress. After deployment is complete, VMControl Standard Edition allows you to view the resulting virtual server and its status. You can also view the history of all deployments of a given virtual appliance.

VMControl Standard Edition manages virtualized appliances within the data center: It does this by providing the means to discover, organize, and catalog virtualized images across heterogeneous image repositories; and by enabling the deployment, capture, and customization of virtual appliances across IBM platforms. It also allows for version control of virtual appliances and deletion of virtual appliances from a repository. The capabilities of VMControl combine to make the creation and

management of dynamic business applications environments simpler, and can help reduce service and support costs.

IBM Systems Director Network Control V1.2

IBM Systems Director Network Control V1.2 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 your computing environment with a single integrated management tool that can improve your cost of computing. IBM Systems Director Network Control V1.2 builds on IBM Systems Director V6.2 base network management capabilities such as discovery, inventory, monitoring status, and network diagnostics.

IBM Systems Director Network Control V1.2 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.

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 V1.2 along with IBM Systems Director server management and storage management provides a single management tool for the computing environment that can help to reduce overall IT management cost. IBM Systems Director Network Control is intended to help you:

- Simplify management of multivendor network devices
- Automate network management tasks
- Leverage new converged fabric network technology to reduce IT cost

IBM Systems Director Network Control V1.2 also includes:

- Web-based user interface for easy user access to the IBM Systems Director Network Control functions, as well as pointers to existing network-related functions in IBM Systems Director
- Ability to view high-level status of supported devices, as well as lower-level "drill-down" component status and errors for individual devices
- Discovery and inventory support of Ethernet switches and server network interface cards (NICs) with the ability to view properties and current configuration of supported devices, including switch virtual LAN (VLAN) configuration

The use of the following functions is not included in the IBM Systems Director Edition license authorization. The use of these functions requires a full use license of IBM Systems Director Network Control, which must be obtained separately.

- Network topology views
- Interface to vendor configuration tools
- Host VLAN configuration
- View systems by subnet
- Network virtualization capabilities

IBM Systems Director Enterprise Edition

IBM Systems Director Enterprise Edition contains all of Standard Edition plus the following components:

- IBM Systems Director Enterprise Edition Installation Launchpad V6.2

Note: The following components are also available separately.

- IBM Systems Director VMControl Enterprise Edition for Power Systems, V2.3

- IBM Tivoli Monitoring (ITM) V6.2.2 FP2
- IBM Tivoli Monitoring (ITM) - OS Agents
- IBM Tivoli Monitoring (ITM) - System p Agents
- IBM Tivoli Monitoring for Energy Management 6.2.1
- IBM Tivoli Application Dependency Discovery Manager (TADDM) 7.2
- IBM Tivoli Performance Analyzer 6.2.2
- IBM Tivoli Common Reporting for Asset and Performance Management 1.3
- DB2 Enterprise Server Edition 9.7 FP1

IBM Systems Director Enterprise Edition Installation Launchpad V6.2

IBM Systems Director Enterprise Edition Installation Launchpad V6.2 provides the ability for customers to locally install and configure the components of Enterprise Edition. Features for this component include:

- Automated checking of all component prerequisites
- Remote installation and creation of databases

IBM Systems Director VMControl Enterprise Edition for Power Systems, V2.3

IBM Systems Director VMControl V2.3 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 allows VMControl Enterprise Edition to provide significant value in managing today's complex and heterogeneous data centers.

VMControl Enterprise Edition is a workload-optimized approach to computing, designed to drive down costs and improve service. VMControl Enterprise Edition manages a pool of virtualized systems resources. A *system pool* is a pool of virtualized system resources (servers, storage, and network) that can be managed as a single entity with the simplicity of managing a single system. VMControl Enterprise Edition provides the management of virtualized workloads. This includes the ability to make dynamic virtual server adjustments and move virtual servers around within system pools, providing efficiency and increased resilience for planned and unplanned downtime.

Features added to VMControl Enterprise Edition V2.3 include:

- A Web-based user interface to provide a comprehensive dashboard view of the system pools, virtual appliances, and deployed workloads within the data center
- A fully functional command-line interface (CLI) supporting all of the tasks and functions within the VMControl plug-in to IBM System Director
- A software development kit (SDK) containing Web-service programming APIs that allows for integration and extension by other data center management solutions
- Continued and ongoing support for the OVF industry-standard format for describing and packing virtual machine images
- System pools for IBM POWER7 technology-based systems, providing:
 - Monitoring and system health within the IBM Systems Director dashboard
 - Simplified deployment of virtual appliances
 - Nondisruptive mobility of client workloads
 - Automated compliance checks for workload and resource availability
 - Dynamic placement of client workloads

The VMControl Enterprise Edition enables virtual images on POWER5™, POWER6™, and POWER7 systems to be pooled together, allowing the pool to be managed as a single logical entity in the data center. With pools, client workloads can be deployed using dynamic placement and managed within the pool. With POWER6

and POWER7 pools, workloads can be deployed as needed to be highly available. Approval capabilities allow the client to approve proposed actions (like dynamic relocation) that the system pool deems necessary to keep in compliance with workload availability.

System pools are a key building block for predictable, repeatable, and integrated data center architectures. The value of VMControl Enterprise Edition includes:

- **Simplification:** System pools streamline best practices in standard, repeatable configurations of virtualized servers, storage, and networks. System pools use standard, preset components and behaviors to rapidly create easily managed, customized configurations.
- **Agility:** System pools allow rapid deployment and elastic scaling. Self-describing virtual appliances automate placement and allocation of virtual resources to applications.
- **Resiliency:** System pools use plug-and-play physical nodes that enable high availability and disaster recovery. New resources can be integrated and quickly used.
- A Web-based user interface to provide a comprehensive dashboard view of the system pools, virtual appliances, and deployed workloads within the data center.
- A fully functional CLI supporting all of the tasks and functions within the VMControl plug-in to IBM System Director.
- A REST-based Web service interface that allows for integration and extension by Tivoli and other data center management solutions.
- System pools for IBM POWER5, POWER6, and POWER7 technology-based systems, providing:
 - Monitoring and system health within the IBM Systems Director dashboard
 - Simplified deployment of virtual appliances
 - Nondisruptive mobility of client workloads (POWER6 and POWER7 only)
 - Automated compliance checks for workload and resource availability
 - Dynamic placement of client workloads

IBM Tivoli Monitoring V6.2.2 Fix Pack 2

IBM Tivoli Monitoring provides performance and availability monitoring and alerts for the Power Systems environment to include monitoring of these key Power Systems AIX components:

- **VIOS:** The VIOS Agent monitors the health of the VIOS, provides mapping of storage and new resources to the client LPAR, and provides storage and new utilization statistics. The VIOS Premium Agent is preinstalled on a VIOS system.
- **CEC:** The CEC Agent provides overall CPU and memory utilization of the frame for monitored partitions and provides CPU and memory utilization by LPAR. The CEC Agent must be installed on an AIX partition that resides on the CEC to be monitored.
- **AIX Premium Agent:** The AIX Premium Agent provides statistics for each LPAR-CPU (entitled, physical, and logical), memory utilization, disk, and new utilization and process data. This agent also provides usage statistics for WPARs as well.

The HMC Agent provides health and availability of the HMC. Multiple instances of the HMC Agent can be invoked on the same partition to monitor multiple HMCs. New features for this component include:

- **Integration with IBM Systems Director:** This will provide IBM hardware customers with monitoring and management from one UI, which will provide for reduced mean time to repair. This integration provides the capability to contextually launch IBM Systems Director from IBM Tivoli Monitoring to perform configuration changes/start/stop LPARs and perform other actions.
- **Storage Utilization by LPAR (VIOS):** The VIOS Storage Mapping workspace was enhanced to include disk transfers related to the client partition. With this feature, the customer is able to easily view storage utilization by LPAR, reducing mean time to repair.

- NPIV Client/Server Mappings (VIOS agent): Virtual Fibre Channel adapters make use of an industry standard called N-Port ID Virtualization (NPIV), which allows enabled Fibre Channel adapters to be configured with 64 virtual ports. A new workspace in the VIOS agent provides the name of the physical port, the number of virtual ports, and the number of available virtual ports. This workspace also maps the client partitions to the physical and virtual NPIV ports. There is also a situation to indicate a low number of available virtual ports. This data provides the ability to understand how the Fibre Channel (FC) is being used by the LPAR. The available number of ports data indicates whether additional ports/FC are required.
- Shared Pool Data (CEC and AIX Premium agents): In the CEC agent, customers are now able to view statistics for multiple shared pools to include pool ID, CPU units consumed, number of LPARs using the pool, available CPU units in the pool, and pool entitlement and maximum pool capacity. Customers can sort the LPAR utilization table by shared pool ID to understand usage of the pool by the LPAR. There is a situation that provides an alert if the number of available CPUs in the shared pool is low.

The AIX premium agent also provides the pool ID in the system work space. With this feature, the customer is able to determine which LPARs are using CPU from the shared pool and whether more CPU should be assigned to that LPAR.

Hypervisor™ Time (AIX and VIOS agents): An attribute and situation were added to the AIX premium and VIOS agents to indicate the CPU time the LPAR spent in the hypervisor. It provides the amount of time the hypervisor is spending to troubleshoot when excessive CPU is due to the number of hypervisor calls.

New Performance Analyzer: This feature extends IBM Tivoli Monitoring data to predictive trending to manage performance over time. It provides the ability to forecast resource trends to focus monitoring on emerging problems and leverage the long-term historical and real-time data in Tivoli Data Warehouse.

IBM Tivoli ITM System p Agents V6.2.2

A new POWER7 feature provides Active Memory™ Expansion (AME) and support for 1,024 CPUs and provides customers with a global view by frame on how well AME is used by LPAR and how much CPU is consumed by AME.

Additional new features include:

- LPAR Migration Metrics, which provides visualization when an LPAR is migrated, when an LPAR is created, and when an LPAR is removed. In addition, ITM can provide an alert when these conditions occur.
- A tabular view of all CECs and LPARs managed by the HMC provides customers with a global view of how all the CECs and LPARs are configured for the HMC with basic status information.
- Network Adapter Bandwidth gives customers a view of true network utilization so they can understand if performance problems are due to physical capacity limitations.
- A new Tivoli Common Reporting component provides the ability to report on historical and predictive trends. This feature includes out-of-the-box reports that provide an understanding of utilization for all frames in the environment, for all LPARs in a frame, how LPARs are using the shared pool, top and bottom LPAR utilization, and other reports. In addition to the OPAL BIRT reports, new Cognos-based OS Agent Reports are provided.

IBM Tivoli Monitoring for Energy Management V6.2.1

IBM Tivoli Monitoring for Energy Management is a powerful energy monitoring tool that provides a link between the domains of energy management and service management -- a key product in your arsenal of tools to monitor and help manage energy use while maintaining service levels. IBM Tivoli Monitoring for Energy Management helps businesses monitor key energy metrics, provide alerts when critical energy situations are identified, and take actions in response. Included with the product are reports and portlets that provide visibility into energy usage, costs, carbon footprint, and industry-standard metrics. Additionally, IBM Tivoli Monitoring

for Energy Management provides energy information to other service management tools so that energy can be monitored in the wider context of the IT services it supports.

IBM Tivoli Application Dependency Discovery Manager 7.2

The Tivoli Application Dependency Discovery Manager (TADDM) component provides these key features:

- Discovery of the Power Systems physical and virtual environment and their dependencies. In regards to Power Systems, TADDM:
 - Provides a clear, comprehensive view of interdependencies between applications, computer systems, and network devices, using agent-less and credential-free discovery and automated application mapping
 - Allows you to view detailed change histories, rapidly isolate changes, and minimize problem isolation time
 - Tracks how applications, computer systems, and network devices are configured and changing over time
 - Determines if configurations comply with your policies
 - Is designed to provide change events and ensure compliance of servers/LPARs against a "gold standard"

The TADDM Monitoring Coverage Report:

- Highlights resources that are not monitored by collecting data that it extracts from ITM with other data that it has discovered.
- Is used in conjunction with the ITM Discovery Library Adapter that is shipped with ITM. Administrators use the report as an informational tool in deciding which computer system to deploy ITM monitoring agents for databases and operating systems.

TADDM provides a launch in context to ITM to view performance and availability metrics. Combining the Monitoring Coverage Report with other IBM solutions allows you to deploy ITM agents to resources that are not monitored by using ITM's remote deployment feature.

Accessibility by people with disabilities

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

http://www-03.ibm.com/able/product_accessibility/index.html

Section 508 of the U.S. Rehabilitation Act

IBM Systems Director Express Edition, IBM Systems Director Standard Edition, and IBM Systems Director Enterprise Edition are made up of multiple components. Most components are capable as of July 30, 2010, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the U.S. Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. For a complete compliance report, a U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested on the following Web site

http://www-03.ibm.com/able/product_accessibility/index.html

Product positioning

The IBM Systems Director Editions family of products provides the foundation for monitoring and control of server systems. They are cross-industry solutions that provide an integrated software stack designed to meet the varied needs of clients -- from basic hardware management to advanced cross-enterprise management. These

products support all IBM server platforms, including IBM System x® (Windows® and Linux operating systems), Power Systems (AIX, IBM i, and Linux operating systems), System z® (Linux operating system), and third-party x86 systems. The family also provides leadership heterogeneous virtualization management, including support for IBM (PowerVM and z/VM technology), VMware (ESX and ESXi), and Microsoft (Hyper-V) hypervisor technologies. The IBM Systems Director Editions are also complementary and integrate seamlessly with IBM Tivoli service management solutions.

- IBM Systems Director Express Edition is targeted for clients who want affordable, basic management of physical and virtual IBM systems to reduce the time and effort required for routine system administration. It provides the discovery, configuration, monitoring, and event management needed to support client efforts to reduce cost and complexity through server consolidation and simplified management.
- IBM Systems Director Standard Edition is targeted for clients who want advanced management of IBM systems to increase operational efficiency. In addition to the Express Edition features, it provides management of virtual images, energy, and networking systems as well as the ability to update software, enabling clients to quickly adapt to changes in capacity requirements.
- IBM Systems Director Enterprise Edition is intended for clients who want enterprise-class management of heterogeneous IT environments to support data center transformation and enable operational management cost savings. In addition to the Standard Edition features, it provides management of virtualized IBM system pools, which includes integrated network and storage management that helps clients optimize resources across multiple heterogeneous virtual and physical systems.

With the IBM Systems Director Editions, IBM provides the broadest scope of integrated service management for hardware, hypervisors, and operating systems as compared to other vendors who are limited in platform scope and product functionality.

Reference information

- Refer to Software Announcement [210-043](#), dated March 23, 2010, for IBM Systems Director Express Edition for IBM x86, V6.1.2.
- Refer to Software Announcement [210-119](#), dated July 20, 2010, for IBM Systems Director Express Edition for IBM x86, V6.2.
- Refer to Software Announcement [210-011](#), dated February 09, 2010, for IBM Systems Director Editions for Power Systems.
- Refer to Software Announcement [208-210](#), dated September 09, 2008, for ordering information on AIX Enterprise Edition.
- Refer to Software Announcement [210-085](#), dated April 13, 2010, for IBM Systems Director VMControl Editions for Power Systems, V2.3.
- Refer to Software Announcement [210-093](#), dated April 13, 2010, for IBM Systems Director for Power Systems, V6.2.
- Refer to Software Announcement [210-075](#), dated April 13, 2010, for IBM Systems Director Active Energy Manager for Power Systems, V4.3.

Program number

Program number	VRM	Program name
5765-EXP	6.2	IBM Systems Director Express Edition for Power Systems
5660-EXP		SW Maintenance Regist/Renewal 1 Year
5661-EXP		SW Maintenance After License 1 Year
5662-EXP		SW Maintenance Registration 3 Year

5664-EXP SW Maintenance After License 3 Year

5765-SEP 6.2 IBM Systems Director Standard
Edition for Power Systems

5660-SEP SW Maintenance Regist/Renewal 1 Year

5661-SEP SW Maintenance After License 1 Year

5662-SEP SW Maintenance Registration 3 Year

5664-SEP SW Maintenance After License 3 Year

5765-EEP 6.2 IBM Systems Director Enterprise
Edition for Power Systems

5660-EEP SW Maintenance Regist/Renewal 1 Year

5661-EEP SW Maintenance After License 1 Year

5662-EEP SW Maintenance Registration 3 Year

5664-EEP SW Maintenance After License 3 Year

Product identification number

Program PID number	Maintenance 1-year PID number	Maintenance 3-year PID number
5765-EXP	5660-EXP 5661-EXP	5662-EXP 5664-EXP
5765-SEP	5660-SEP 5661-SEP	5662-SEP 5664-SEP
5765-EEP	5660-EEP 5661-EEP	5662-EEP 5664-EEP

IBM Systems Lab Services and Training Offerings

Accelerator! Services for IBM Systems Director Editions provide hands-on technical skills transfer and implementation assistance to enable you to install, configure, and exploit the capabilities of IBM Systems Director in your IBM systems server environment. Select the Accelerator! service offering custom tailored for your IBM Systems Director Edition.

- Accelerator! Services for IBM Systems Director Express Edition for Power Systems
- Accelerator! Services for IBM Systems Director Standard Edition for Power Systems
- Accelerator! Services for IBM Systems Director Enterprise Edition for Power Systems
- Accelerator! Services for IBM Systems Director Express Edition for x86

About IBM Systems Lab Services and Training

IBM Systems Lab Services and Training is comprised of highly skilled consultants dedicated to help you accelerate the adoption of new products and technologies. We leverage our relationships with the IBM Development Labs to build deep technical skills and exploit the expertise of our developers to help you maximize the performance of your existing IBM systems. This team can be deployed worldwide to assure all client needs can be fulfilled by the required technical talent.

For more information, visit

Offering Information

Product information is available via the Offering Information Web site

<http://www.ibm.com/common/ssi>

Business Partner information

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).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=210-100>

Publications

No licensed hardcopy publications are shipped with this program.

Publications are available in U.S. English from the IBM Systems Director V6.2 Information Center.

The IBM Systems Director V6.2 Information Center provides you with a single information center where you can access product documentation for Systems Director V6.2 and its associated plug-ins. The IBM Systems Director V6.2 Information Center is available at

<http://publib.boulder.ibm.com/infocenter/director/v6r2x/index.jsp>

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.

Technical information

Specified operating environment

Hardware requirements

Any of these IBM platforms with supported operating system:

- Power Systems
- System p
- System i
- BladeCenter

IBM Systems Director Editions are dependent on IBM Systems Director and have the same hardware requirements as the IBM Systems Director V6.2. These hardware requirements are available from Software Announcement [210-093](#), dated April 13, 2010, for IBM Systems Director for Power Systems, V6.2, and from the IBM Systems Director V6.2 Information Center at

http://publib.boulder.ibm.com/infocenter/director/v6r2x/topic/com.ibm.director.plan.helps.doc/fqm0_r_hardware_requirements.html

IBM AIX Enterprise Edition hardware requirements are available from Software Announcement [208-210](#), dated September 09, 2008.

Software requirements

IBM Systems Director Editions require one of the following operating systems:

- AIX V5.3
- AIX V6.1
- Novell SUSE Linux Enterprise Server 10 for POWER
- Novell SUSE Linux Enterprise Server 11 for POWER
- Red Hat Enterprise Linux AS 4 for POWER
- Red Hat Enterprise Linux AP 5 for POWER

IBM Systems Director Editions are dependent on IBM Systems Director and have the same software requirements as the IBM Systems Director V6.2 server. These software requirements are available from the IBM Systems Director V6.2 documentation and from the IBM Systems Director V6.2 Information Center at

http://publib.boulder.ibm.com/infocenter/director/v6r2x/topic/com.ibm.director.plan.helps.doc/fqm0_r_operating_system_and_software_requirements.html

IBM AIX Enterprise Edition software requirements are available from Software Announcement [208-210](#), dated September 09, 2008.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Limitations

Limitations and workarounds are available from the IBM Systems Director V6.2 Information Center

<http://publib.boulder.ibm.com/infocenter/director/v6r2x/index.jsp>

AIX Enterprise Edition is only available with the AIX 6 operating systems. Customers that want to use the capabilities of Systems Director Enterprise Edition with AIX V5.3 should order AIX V5.3 and the Systems Director Enterprise Edition products.

Performance considerations

Performance considerations are available from the IBM Systems Director V6.2 Information Center

<http://publib.boulder.ibm.com/infocenter/director/v6r2x/index.jsp>

Planning information

Direct customer support

For technical support or assistance, contact your IBM representative or visit

<http://www.ibm.com/support>

Packaging

IBM Systems Director Edition packages will contain multiple product DVDs, product installation documentation, and files. Each Systems Director Edition package will contain installation readme files for each of the products. Included in each edition are the contents of the media, where to locate the executable for each product on the media, and installation information for each of the products in each edition.

The IBM Systems Director Express Edition package will include IBM Systems Director and Express Edition DVDs for AIX and Linux on Power operating environments, containing product code and installation documentation.

The IBM Systems Director Standard Edition package will include IBM Systems Director and Standard Edition DVDs for AIX and Linux on Power operating

environments containing product code, installation documentation, license keys, and a Standard Edition Launchpad CD.

The IBM Systems Director Enterprise Edition package will include IBM Systems Director and Enterprise Edition DVDs for AIX and Linux on Power operating environments, containing product code, installation documentation, and license keys, an Enterprise Edition Launchpad CD, and multiple IBM Tivoli product installation and national language support DVDs. The IBM Systems Director Enterprise Edition Launchpad will guide the user through the installation process and provide helpful hints and links to product planning and configuration information available from IBM.

Your Proof of Entitlement for this program is a copy of a paid sales receipt, purchase order, invoice, or other sales record from IBM or its authorized reseller from whom you acquired the program, provided that it states the license charge unit (the characteristics of intended use of the program; for example, number of processors and number of users) and quantity acquired.

Information about how you may obtain program services will be provided by the party (either IBM or its authorized reseller) from whom you acquired the program.

This program, when downloaded from a Web site, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

IBM Systems Director Editions for Power Systems use the security and auditability features of the AIX or Linux operating system.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

Charge metric

Program name	PID number	Charge metric
IBM Systems Director Express Edition	5765-EXP	Per processor
SW Maintenance Regist/Renewal 1 Year	5660-EXP	Per processor
SW Maintenance After License 1 Year	5661-EXP	Per processor
SW Maintenance Registration 3 Year	5662-EXP	Per processor
SW Maintenance Renewal 3 Year	5663-EXP	Per processor
SW Maintenance After License 3 Year	5664-EXP	Per processor

IBM Systems Director Standard Edition	5765-SEP	Per processor
SW Maintenance Regist/Renewal 1 Year	5660-SEP	Per processor
SW Maintenance After License 1 Year	5661-SEP	Per processor
SW Maintenance Registration 3 Year	5662-SEP	Per processor
SW Maintenance Renewal 3 Year	5663-SEP	Per processor
SW Maintenance After License 3 Year	5664-SEP	Per processor

IBM Systems Director Enterprise Edition	5765-EEP	Per processor
SW Maintenance Regist/Renewal 1 Year	5660-EEP	Per processor
SW Maintenance After License 1 Year	5661-EEP	Per processor
SW Maintenance Registration 3 Year	5662-EEP	Per processor
SW Maintenance Renewal 3 Year	5663-EEP	Per processor
SW Maintenance After License 3 Year	5664-EEP	Per processor

Processor

Processor is a unit of measure by which the program can be licensed. *Processor* (commonly called a *processor core* or *CPU*) is a functional unit within a computing device that interprets and executes instructions. A processor consists of at least an instruction control unit and one or more arithmetic or logic unit. With multicore technology, each core is considered a processor. A Proof of Entitlement (PoE) must be acquired for all activated processor cores available for use on the server. In addition to the entitlements required for the program directly, licensee must obtain entitlements for this program sufficient to cover the processor cores managed by the program.

IBM Systems Director Editions use a per processor charging metric. A license is required for each processor on each machine running IBM Systems Director Editions and each processor on each machine being managed by IBM Systems Director Editions, based on the size of the server. As of this announcement, servers are categorized as small, medium, or large.

The quantity of software license and IBM Software Maintenance (SWMA) entitlements required is based on the total number of processors in each of the Power Systems servers running or being managed by IBM Systems Director and the processor tier (small, medium, and large).

Orders may be placed beginning with configurator availability.

For new orders for IBM Systems Director Express Edition V6.2.0, select from the following table:

5765-EXP IBM Systems Director Express Edition for Power Systems, V6.2.0

Description	OTC feature number
Per Processor Small with 1 Year SWMA	0001
Per Processor Small P7 with 1 Year SWMA	0002
Per Processor Medium with 1 Year SWMA	0003
Per Processor Medium P7 with 1 Year SWMA	0004
Per Processor Large with 1 Year SWMA	0005
Per Processor Large P7 with 1 Year SWMA	0006

For new orders for IBM Systems Director Standard Edition for Power Systems, V6.2.0, select from the following table:

5765-SEP IBM Systems Director Standard Edition for Power Systems, V6.2.0

Description	OTC feature number
Per Processor Small with 1 Year SWMA	0010
Per Processor Small P7 with 1 Year SWMA	0011
Per Processor Medium with 1 Year SWMA	0012
Per Processor Medium P7 with 1 Year SWMA	0013

Per Processor Large with 1 Year SWMA	0014
Per Processor Large P7 with 1 Year SWMA	0015
Upgrade from Express Small to Standard Small	0004
Upgrade from Express Small P7 to Standard Small P7	0005
Upgrade from Express Medium to Standard Medium	0006
Upgrade from Express Medium P7 to Standard Medium P7	0007
Upgrade from Express Large to Standard Large	0008
Upgrade from Express Large P7 to Standard Large P7	0009

For new orders for IBM Systems Director Enterprise Edition for Power Systems, V6.2.0, select from the following table:

5765-EEP IBM Systems Director Enterprise Edition for Power Systems, V6.2.0

Description	OTC feature number
Per Processor Small with 1 Year SWMA	0001
Per Processor Small P7 with 1 Year SWMA	0002
Per Processor Medium with 1 Year SWMA	0003
Per Processor Medium P7 with 1 Year SWMA	0004
Per Processor Large with 1 Year SWMA	0005
Per Processor Large P7 with 1 Year SWMA	0006
Upgrade from Express Small to Enterprise Small	0007
Upgrade from Express Small P7 to Enterprise Small P7	0008
Upgrade from Express Medium to Enterprise Medium	0009
Upgrade from Express Medium P7 to Enterprise Medium P7	0010
Upgrade from Express Large to Enterprise Large	0011
Upgrade from Express Large P7 to Enterprise Large P7	0012
Upgrade from Standard Small to Enterprise Small	0013
Upgrade from Standard Small P7 to Enterprise Small P7	0014
Upgrade from Standard Medium to Enterprise Medium	0015
Upgrade from Standard Medium P7 to Enterprise Medium P7	0016
Upgrade from Standard Large to Enterprise Large	0017
Upgrade from Standard Large P7 to Enterprise Large P7	0018
Upgrade from 5765-AME (0004,0007, 0010) to Enterprise Small	0019
Upgrade from 5765-AME (0004,0007, 0010) to Enterprise Small P7	0020
Upgrade from 5765-AME (0013) to Enterprise Medium	0021
Upgrade from 5765-AME (0013) to Enterprise Medium P7	0022
Upgrade from 5765-AME (0016, 0019) to Enterprise Large	0023
Upgrade from 5765-AME (0016, 0019) to Enterprise Large P7	0024

Software Maintenance

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after license feature number.

Software Maintenance is included with the product license for IBM Systems Director Express Edition V6.1. SWMA for IBM Systems Director Express Edition V6.1 may be obtained by ordering the following:

Feature description	Program number	OTC feature number
SW Maintenance Registration/Renewal 1 Year	5660-EXP	
Per Processor Small 1 Year Registration		1489
Per Processor Small P7 1 Year Registration		1490
Per Processor Medium 1 Year Registration		1491
Per Processor Medium P7 1 Year Registration		1492
Per Processor Large 1 Year Registration		1493
Per Processor Large P7 1 Year Registration		1494
SW Maintenance After License 1 Year	5661-EXP	
Per Processor Small 1 Year After License		0501
Per Processor Small P7 1 Year After License		0502
Per Processor Medium 1 Year After License		0503
Per Processor Medium P7 1 Year After License		0504
Per Processor Large 1 Year After License		0505
Per Processor Large P7 1 Year After License		0506
SW Maintenance Registration 3 Year	5662-EXP	
Per Processor Small 3 Year Registration		0738
Per Processor Small P7 3 Year Registration		0739
Per Processor Medium 3 Year Registration		0740
Per Processor Medium P7 3 Year Registration		0741
Per Processor Large 3 Year Registration		0742
Per Processor Large P7 3 Year Registration		0743
SW Maintenance After License 3 Year	5664-EXP	
Per Processor Small 3 Year After License		0004
Per Processor Small P7 3 Year After License		0005
Per Processor Medium 3 Year After License		0006
Per Processor Medium P7 3 Year After License		0007
Per Processor Large 3 Year After License		0008
Per Processor Large P7 3 Year After License		0009
Feature description	Program number	OTC feature number
SW Maintenance Registration/Renewal 1 Year	5660-SEP	
Per Processor Small 1 Year Registration		1477
Per Processor Small P7 1 Year Registration		1478
Per Processor Medium 1 Year Registration		1479
Per Processor Medium P7 1 Year Registration		1480
Per Processor Large 1 Year Registration		1481
Per Processor Large P7 1 Year Registration		1482
Upgrade from 5660-EXP 1 Year Reg on Small		1483
Upgrade from 5660-EXP 1 Year Reg on Small P7		1484
Upgrade from 5660-EXP 1 Year Reg on Medium		1485
Upgrade from 5660-EXP 1 Year Reg on Medium P7		1486
Upgrade from 5660-EXP 1 Year Reg on Large		1487
Upgrade from 5660-EXP 1 Year Reg on Large P7		1488
SW Maintenance After License 1 Year	5661-SEP	
Per Processor Small 1 Year After License		0507
Per Processor Small P7 1 Year After License		0508
Per Processor Medium 1 Year After License		0509
Per Processor Medium P7 1 Year After License		0510
Per Processor Large 1 Year After License		0511
Per Processor Large P7 1 Year After License		0512
SW Maintenance Registration 3 Year	5662-SEP	
Per Processor Small 3 Year Registration		0750
Per Processor Small P7 3 Year Registration		0751
Per Processor Medium 3 Year Registration		0752
Per Processor Medium P7 3 Year Registration		0753
Per Processor Large 3 Year Registration		0754
Per Processor Large P7 3 Year Registration		0755
Upgrade from 5662-EXP 3 Yr Registration on Small		0744
Upgrade from 5662-EXP 3 Yr Registration on Small P7		0745

Upgrade from 5662-EXP 3 Yr Registration on Medium		0746
Upgrade from 5662-EXP 3 Yr Registration on Medium P7		0747
Upgrade from 5662-EXP 3 Yr Registration on Large		0748
Upgrade from 5662-EXP 3 Yr Registration on Large P7		0749
SW Maintenance After License 3 Year	5664-SEP	
Per Processor Small 3 Year After License		0004
Per Processor Small P7 3 Year After License		0005
Per Processor Medium 3 Year After License		0006
Per Processor Medium P7 3 Year After License		0007
Per Processor Large 3 Year After License		0008
Per Processor Large P7 3 Year After License		0009
		OTC
Feature description	Program number	feature number
SW Maintenance Registration/Renewal 1 Year	5660-EEP	
Per Processor Small 1 Year Registration		1507
Per Processor Small P7 1 Year Registration		1508
Per Processor Medium 1 Year Registration		1509
Per Processor Medium P7 1 Year Registration		1510
Per Processor Large 1 Year Registration		1511
Per Processor Large P7 1 Year Registration		1512
Upgrade from 5660-EXP 1 Year Reg on Small		1501
Upgrade from 5660-EXP 1 Year Reg on Small P7		1502
Upgrade from 5660-EXP 1 Year Reg on Medium		1503
Upgrade from 5660-EXP 1 Year Reg on Medium P7		1504
Upgrade from 5660-EXP 1 Year Reg on Large		1505
Upgrade from 5660-EXP 1 Year Reg on Large P7		1506
Upgrade from 5660-SEP 1 Year Reg on Small		1495
Upgrade from 5660-SEP 1 Year Reg on Small P7		1496
Upgrade from 5660-SEP 1 Year Reg on Medium		1497
Upgrade from 5660-SEP 1 Year Reg on Medium P7		1498
Upgrade from 5660-SEP 1 Year Reg on Large		1499
Upgrade from 5660-SEP 1 Year Reg on Large P7		1500
SW Maintenance After License 1 Year	5661-EEP	
Per Processor Small 1 Year After License		0513
Per Processor Small P7 1 Year After License		0514
Per Processor Medium 1 Year After License		0515
Per Processor Medium P7 1 Year After License		0516
Per Processor Large 1 Year After License		0517
Per Processor Large P7 1 Year After License		0518
SW Maintenance Registration 3 Year	5662-EEP	
Per Processor Small 3 Year Registration		0768
Per Processor Small P7 3 Year Registration		0769
Per Processor Medium 3 Year Registration		0770
Per Processor Medium P7 3 Year Registration		0771
Per Processor Large 3 Year Registration		0772
Per Processor Large P7 3 Year Registration		0773
Upgrade from 5662-EXP 3 Year Reg on Small		0762
Upgrade from 5662-EXP 3 Year Reg on Small P7		0763
Upgrade from 5662-EXP 3 Year Reg on Medium		0764
Upgrade from 5662-EXP 3 Year Reg on Medium P7		0765
Upgrade from 5662-EXP 3 Year Reg on Large		0766
Upgrade from 5662-EXP 3 Year Reg on Large P7		0767
Upgrade from 5662-SEP 3 Yr Registration on Small		0756
Upgrade from 5662-SEP 3 Yr Registration on Small P7		0757
Upgrade from 5662-SEP 3 Yr Registration on Medium		0758
Upgrade from 5662-SEP 3 Yr Registration on Medium P7		0759
Upgrade from 5662-SEP 3 Yr Registration on Large		0760
Upgrade from 5662-SEP 3 Yr Registration on Large P7		0761
SW Maintenance After License 3 Year	5664-EEP	
Per Processor Small 3 Year After License		0001
Per Processor Small P7 3 Year After License		0002
Per Processor Medium 3 Year After License		0003
Per Processor Medium P7 3 Year After License		0004

Per Processor Large 3 Year After License	0005
Per Processor Large P7 3 Year After License	0006

System Program Order (SPO)

An order for SPO 5692-A5L, 5692-A6P, or 5692-LOP is mandatory for delivery of program media or publications. The individual licensed program orders are for registration and billing purposes only. No physical deliveries occur as a result of those orders.

Specify feature number 3435.

Machine-readable materials are only available on DVD. To receive shipment of machine-readable materials, the order needs to include SPO 5692-A5L, 5692-A6P, or 5692-LOP. The individual licensed program order (for example, 5765-EXP) must still be ordered but will be for registration and billing purposes only and will not result in shipment of materials.

The System Program Order must also contain the following features to deliver a machine-readable copy of the product using the currently available media.

Program number	Program/Function name	Feature number
5692-A5L	IBM Systems Director Express Edition V6.2	2264
5692-A6P	IBM Systems Director Express Edition V6.2	2264
5692-LOP	IBM Systems Director Express Edition V6.2	2263
5692-A5L	IBM Systems Director Standard Edition V6.2	2265
5692-A6P	IBM Systems Director Standard Edition V6.2	2265
5692-LOP	IBM Systems Director Standard Edition V6.2	2264
5692-A5L	IBM Systems Director Enterprise Edition V6.2	2266
5692-A6P	IBM Systems Director Enterprise Edition V6.2	2266
5692-LOP	IBM Systems Director Enterprise Edition V6.2	2265

Expedite feature for licensed programs and SWMA programs:

Program number	Description	Feature number
5765-EXP	Branch Office Expedite	3445
5660-EXP	Branch Office Expedite	3445
5661-EXP	Branch Office Expedite	3445
5662-EXP	Branch Office Expedite	3445
5664-EXP	Branch Office Expedite	3445
5765-SEP	Branch Office Expedite	3445
5660-SEP	Branch Office Expedite	3445
5661-SEP	Branch Office Expedite	3445
5662-SEP	Branch Office Expedite	3445
5664-SEP	Branch Office Expedite	3445
5765-EEP	Branch Office Expedite	3445
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