



IBM Systems Director Management Console simplifies managing IBM Power Systems servers and blades

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At a glance

The IBM® Systems Director Management Console:

- Provides hardware, service, and virtualization management for your Power Systems™ server
- Offers the same functionality as the Hardware Management Console

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 Management Console (SDMC) V6.7.3 is the next-generation Hardware Management Console (HMC). The SDMC incorporates the IBM Systems Director software to provide consistency with IBM Systems Director on other platforms.

The SDMC is available on physical hardware that is identical to that of the current HMC with additional memory and disk resources. SDMC is also available in a virtual appliance format for managing small-tier servers. The SDMC offers several advantages over the HMC, including the ability to manage both Power Systems servers and Power Systems blades based on Power Architecture®.

Key prerequisites

IBM 7042 Rack-mounted Hardware Management Console and IBM SDMC indicator (#0963)

Planned availability date

May 13, 2011

Description

The SDMC is intended to be used in the same manner as the HMC. It provides the same functionality, including hardware, service, and virtualization management, for your Power Systems server and Power Systems blades. Because SDMC uses IBM Systems Director Express® Edition, it also provides all Systems Director Express capabilities, such as monitoring of operating systems and creating event action plans.

The SDMC can be obtained as a hardware appliance -- in the same manner as an HMC. Hardware appliances support managing Power Systems servers. The SDMC can optionally be obtained in a virtual appliance format, capable of running on VMware (ESX/i 4, or later), and KVM (Red Hat Enterprise Linux® (RHEL) 5.5). The virtual appliance is only supported for managing small-tier Power® servers and Power Systems blades. For the software appliance, you are responsible for providing the hardware (IBM System x® system only) and virtualization environment.

In most cases, the scalability and performance of SDMC matches that of a current HMC. This includes both the number of systems (hosts) and the number of partitions (virtual servers) that can be managed. Currently, 48 small-tier entry servers or 32 large-tier servers can be managed by the SDMC with up to 1,024 partitions (virtual servers) configured across those managed systems (hosts).

Much of the SDMC function is equivalent to the HMC. This includes:

- Server (host) management: Like HMC, the SDMC server (host) management functions include power control, inventory collection, firmware management including concurrent updates, error reporting, dump retrieval and transmission, error reporting via Call Home, and component repair and verify.
- Virtualization management: Like HMC, the SDMC virtualization management function includes management of logical partitions (virtual servers) and virtual I/O, Micro-Partitioning™, Partition (Virtual Server) Mobility, Partition (virtual server) Suspend and Resume, Active Memory™ Sharing, N_Port ID Virtualization (NPIV), HCA (IB) configuration, and other PowerVM™ capabilities.
- Transition of configuration data: All partition (virtual server) related information is stored on the managed system itself and will be maintained as is. No configuration changes are required when a client moves from HMC management to SDMC management.
- Redundancy and high availability: The SDMC offers console redundancy similar to the HMC. The SDMC may be used in either an SDMC-SDMC pair or an SDMC-HMC pair. Alternatively, the SDMC may be configured as an Active-Passive High Availability pair. The Active-Passive HA function provides high availability for Systems Director operating system management functions.

While most functions that SDMC provides are very similar to that of the HMC, the SDMC has made significant strides in simplifying virtualization management. Specifically, managing virtual I/O has become much simpler as SDMC can automatically create virtual I/O adapters, and allow the user to assign virtual storage directly to partitions (virtual servers). SDMC provides a more intuitive interface for dynamically managing the resources currently assigned to a partition (virtual server), by combining the HMC DLPAR functions with partition (virtual server) properties. SDMC also allows partition (virtual server) modifications independent of the partition (virtual server) state.

Another significant enhancement is the ability of the SDMC to manage Power Systems blades. While IVM is still a choice for Power Systems blade management, clients choosing SDMC management of blades can take advantage of multiple Virtual I/O Servers, multiple shared processor pools, Active Memory Expansion, Partition (virtual server) Suspend and Resume, and many other PowerVM capabilities.

Because SDMC uses Systems Director, you can take advantage of all that Systems Director Express Edition has to offer with respect to managing Power Systems servers and blades. Highlights include:

- Operating system management: Use SDMC to discover and directly manage your operating systems.
- Event automation plans: Create automation plans that perform specific functions on a given event. For example, when the CPU utilization exceeds a given threshold, an email notification can be sent to an administrator.
- Dashboard: The SDMC provides a dashboard with health and status.
- Monitoring: Systems Director brings a richer set of monitoring functions to the management console.
- Common look and feel of the IBM Systems Director portfolio family.

The Systems Director Management Console Virtual Appliance (5765-MCV) does not include support for the customer-installed hypervisor. If you use the SDMC Virtual Appliance, you will need to purchase KVM or VMware support separately if you want to have support for your hypervisor.

- Migration, updates, and compatibility: IBM does not support upgrades or conversions from existing CR5/CR6 hardware-based Hardware Management Consoles to the Systems Director Management Console.

Differences from HMC: The following functions provided by the HMC are not provided by the SDMC: modem support and VPN call home. Also, POWER5™ technology-based servers are not supported by the SDMC.

Accessibility by people with disabilities

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

Section 508 of the US Rehabilitation Act

IBM Systems Director Management Console, when used in accordance with IBM's associated documentation, satisfies the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested at

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

Statement of direction

IBM intends to enhance the interoperability of Systems Director Management Console with IBM Systems Director management servers.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Program number

Program number	VRM	Program name
5765-MCH	6.7.3	IBM Systems Director Management Console Hardware Appliance
5660-MCH	1.1	SWMA Registration 1 Year
5661-MCH	1.1	SWMA After License 1 Year
5662-MCH	1.1	SWMA 3 Year Registration
5663-MCH	1.1	SWMA Renewal 3 Year
5664-MCH	1.1	SWMA After License 3 Year
5765-MCV	6.7.3	IBM Systems Director Management Console
5660-MCV	1.1	SWMA Registration 1 Year
5661-MCV	1.1	SWMA After License 1 Year
5662-MCV	1.1	SWMA 3 Year Registration
5663-MCV	1.1	SWMA Renewal 3 Year
5664-MCV	1.1	SWMA After License 3 Year

Product identification number

Program PID number	Maintenance 1-year PID number	Maintenance 3-year PID number
5765-MCH	5660-MCH 5661-MCH	5662-MCH 5663-MCH 5664-MCH
5765-MCV	5660-MCV 5661-MCV	5662-MCV 5663-MCV 5664-MCV

Offering Information

Product information is available via the Offering Information website

<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=211-101>

Publications

No publications are shipped with this program.

Technical information

Specified operating environment

Hardware requirements

The SDMC:

- Requires an IBM 7042 Rack-mounted Hardware Management Console and IBM SDMC indicator (#0963).

- Supports all POWER6™ and POWER7™ processor-based systems (including Power Systems blades) with the exception of the 575. Note that POWER5 systems are not supported. This includes POWER5 I/O towers connected to a POWER6 server.

Configuration, service, and management capabilities provided by the HMC today will be supported natively in SDMC (with some minor exceptions). The SDMC is part of the Systems Director product family with a focus on managing Power Systems hardware. SDMC will support POWER6 and POWER7 processor-based hardware families. Also, a new capability for support of the Power Systems blades is now available.

The software appliance must run on virtualized System x hardware with sufficient available resources. The available resources required for the virtual machine are: 4 VCPUs (Nahalem class or better), 6 GB RAM, 500 GB disk drives, and one to four separate networks.

Software requirements

- SDMC requires the IBM Systems Director Management Console Hardware Appliance (5765-MCH).
- The hypervisors supported are:
 - VMware (ESX/i 4.0, or later)
 - KVM (RHEL 5.5)
- SDMC on Power Systems POWER6 processor-based servers and blades requires eFirmware level 3.5.7.
- SDMC on Power Systems POWER7 processor-based servers and blades requires eFirmware level 7.3.0.

Only the following SDMC virtual appliances are prerequisites and supported:

- VMware VSphere V4
- VMware ESX/i V4
- RHEL 5.5 with KVM
- IBM System x x86-based server

At a minimum, the following resources should be available to the virtual machine:

- 2.53 GHz Intel® Xeon® E5630, Quad Core processor
- 500 MB storage
- 6 GB memory

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

The SDMC physical appliance is limited to IBM 7042-CR6 Rack-mounted Hardware Management Console and the IBM SDMC indicator (#0963).

The SDMC virtual appliance is supported on IBM System x servers. The SDMC virtual appliance may only manage the entry small-tier Power Systems servers and blades. SDMC is currently available only in the English language.

The first release of SDMC does not include support for Systems Director Advanced Managers, such as VMControl and Active Energy Manager.

SDMC is only intended to manage Power Systems servers and blades with POWER6 processors or newer. Using it to manage non Power Systems environments is not supported.

POWER6 Enterprise (mid and high-end) servers require an HMC for CEC Concurrent Maintenance (CCM). There is no such restriction for POWER7 systems - both HMC and SDMC can perform CEC Hot Add and Repair Maintenance (CHARM) procedures on POWER7 systems.

Planning information

Packaging

The IBM Systems Director Management Console Hardware Appliance package contains three DVDs that include product installation documentation and files.

Your Proof of Entitlement (PoE) 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, number of processors, 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.

Security, auditability, and control

Security and auditability features of the SDMC are like the HMC. SDMC relies on the security of the Linux-based appliance, including ssh and a restricted shell. The Systems Director application audits users and tasks, and provides an SSL-based user interface that allows for customer-supplied certificates.

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 Management Console Hardware Appliance	5765-MCH	Per server
SWMA Registration 1 Year	5660-MCH	Per server
SWMA After License 1 Year	5661-MCH	Per server
SWMA 3 Year Registration	5662-MCH	Per server
SWMA Renewal 3 Year	5663-MCH	Per server
SWMA After License 3 Year	5664-MCH	Per server
IBM Systems Director Management Console SWMA Registration 1 Year	5765-MCV 5660-MCV	Per server Per server

SWMA After License 1 Year	5661-MCV	Per server
SWMA 3 Year Registration	5662-MCV	Per server
SWMA Renewal 3 Year	5663-MCV	Per server
SWMA After License 3 Year	5664-MCV	Per server

Server

Server is a unit of measure by which the program can be licensed. A *server* is a physical computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or client devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server. For the purpose of server-based licensing, Licensee must obtain entitlements for each server that is made available to the program, regardless of the number of processor cores or partitions in the server or the number of copies of the program on the server.

In addition to the entitlements required for the program, licensee must obtain entitlements sufficient to cover the servers managed by the program, as follows: IBM AIX® Enterprise Edition entitlements or IBM Systems Director Editions entitlements are required for the total number of activated processors (including any temporary processors) on each server being managed by the program. IBM Systems Director Editions include IBM Systems Director Express Edition for Power, IBM Systems Director Standard Edition for Power, or IBM Systems Director Enterprise Edition for Power.

5765-MCH IBM Systems Director Management Console Hardware Appliance

Description	OTC feature number
Per Server with 1 Year SW Maintenance	0001

5765-MCV IBM Systems Director Management Console

Description	OTC feature number
Per Server with 1 Year SW Maintenance	0001

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.

Feature description	Program number	OTC feature number
SW Maintenance Regist/7x24 Support 1 Year	5660-MCH	
Per Server SWMA NoCharge 1 Year Registration		1675
Per Server SW Maintenance 1 Year 7X24		1676
SW Maintenance 1 Yr After License Charge	5661-MCH	
Per Server SW Maintenance 1 Year After License		0610
Per Server SW Maintenance 1 Year After License 7x24		0617
SW Maintenance 3 Year Registration/7x24	5662-MCH	
Per Server SW Maintenance 3 Year Registration		0894
Per Server SW Maintenance 3 Year 7X24		0895
SW Maintenance 3 Yr After License Charge	5664-MCH	
Per Server SW Maintenance 3 Year After License		0001
Per Server SW Maintenance 3 Year After License 7x24		0002

SW Maintenance Regist/7x24 Support 1 Year	5660-MCV	
Per Server SWMA NoCharge 1 Year Registration		1673
Per Server SW Maintenance 1 Year 7X24		1674

SW Maintenance 1 Yr After License Charge	5661-MCV	
Per Server SW Maintenance 1 Year After License		0609
Per Server SW Maintenance 1 Year After License 7x24		0619

SW Maintenance 3 Year Registration/7x24	5662-MCV	
Per Server SW Maintenance 3 Year Registration		0891
Per Server SW Maintenance 3 Year 7X24		0893

SW Maintenance 3 Yr After License Charge	5664-MCV	
Per Server SW Maintenance 3 Year After License		0001
Per Server SW Maintenance 3 Year After License 7x24		0003

Adding country support for SWMA Auto Renewal Registration feature number 9000 allows for the automatic annual renewal of software maintenance.

Feature number 9000 for SWMA Renewal Registration is adding availability in the following countries:

- Italy
- Belgium
- Netherlands
- Luxembourg
- Ireland
- Pakistan
- Egypt
- Morocco
- Tunisia

The support will continue to be available on the following one-year and three-year SWMA programs:

5733-SPP	1 Year SWMA for iSeries
5733-SPM	1 Year SWMA Extension
5771-SWM	1 Year SWMA for AIX
5771-AEZ	1 Year SWMA for AIX Enterprise Edition
5771-G90	1 Year SWMA for AIX Express Edition

Three-Year SWMA programs

5733-SP3	3 Year SWMA for iSeries
5733-SPO	3 Year SWMA Extension
5773-SM3	3 Year SWMA for AIX
5773-AEZ	3 Year SWMA for AIX Enterprise Edition
5773-G90	3 Year SWMA for AIX Express Edition

The United States will continue to not support feature number 9000 on three-year SWMA programs at this time.

Machine-readable materials are available on DVD media. To receive shipment of machine-readable materials on media, the order needs to include the license programs (5765-MCH or 5765-MCV) and the corresponding supply feature. Entitled Software Update (ESU) orders for Electronic Software Delivery (ESD), will now be available in all countries. ESU orders for System Director Management Console Hardware Appliance (5765-MCH) will be placed on the Entitled Software Support (ESS) website

<http://www.ibm.com/server/eserver/ess>

Program number	Program/Function name	Feature number
5765-MCH	SDMC Hardware Appliance	5806
5765-MCV	SDMC	5806
5765-MCH	Electronic Delivery	3450

Expedite feature for licensed programs:

Program number	Description	Feature number
5765-MCH	Branch Office Expedite	3445
5660-MCH	Branch Office Expedite	3445
5661-MCH	Branch Office Expedite	3445
5662-MCH	Branch Office Expedite	3445
5664-MCH	Branch Office Expedite	3445
5765-MCV	Branch Office Expedite	3445
5660-MCV	Branch Office Expedite	3445
5661-MCV	Branch Office Expedite	3445
5662-MCV	Branch Office Expedite	3445
5664-MCV	Branch Office Expedite	3445

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Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for Subscription and Support (also referred to as Software Maintenance) and does not require customer signatures.

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License Information form number

LC23-5100-00 (LICR# -- L-LHIH-87TKF4)

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

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

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

Yes. Contact your IBM representative.

Passport Advantage applies

No

Software Subscription and Support applies

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Handbook at

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

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

IBM Operational Support Services -- SoftwareXcel

No

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

Prices

For additional information and current prices, contact your local IBM representative.

5765-MCH IBM Systems Director Management Console Hardware Appliance

Description	OTC feature number	OTC
Per Server with 1 Year SW Maintenance	0001	\$

5765-MCV IBM Systems Director Management Console

Description	OTC feature number	OTC
Per Server with 1 Year SW Maintenance	0001	\$

Feature description	Program number	OTC feature number	OTC
SW Maintenance Regist/7x24 Support 1 Year Per Server SWMA NoCharge 1 Year Registration	5660-MCH	1675	\$
Per Server SW Maintenance 1 Year 7X24		1676	
SW Maintenance 1 Yr After License Charge Per Server SW Maintenance 1 Year After License	5661-MCH	0610	
Per Server SW Maintenance 1 Year After License 7x24		0617	
SW Maintenance 3 Year Registration/7x24 Per Server SW Maintenance 3 Year Registration	5662-MCH	0894	
Per Server SW Maintenance 3 Year 7X24		0895	
SW Maintenance 3 Yr After License Charge Per Server SW Maintenance 3 Year After License	5664-MCH	0001	
Per Server SW Maintenance 3 Year After License 7x24		0002	
SW Maintenance Regist/7x24 Support 1 Year Per Server SWMA NoCharge 1 Year Registration	5660-MCV	1673	
Per Server SW Maintenance 1 Year 7X24		1674	
SW Maintenance 1 Yr After License Charge Per Server SW Maintenance 1 Year After License	5661-MCV	0609	
Per Server SW Maintenance 1 Year After License 7x24		0619	
SW Maintenance 3 Year Registration/7x24 Per Server SW Maintenance 3 Year Registration	5662-MCV	0891	
Per Server SW Maintenance 3 Year 7X24		0893	
SW Maintenance 3 Yr After License Charge Per Server SW Maintenance 3 Year After License	5664-MCV	0001	
Per Server SW Maintenance 3 Year After License 7x24		0003	

Pricing terms

Prices in the following PDF prices link are suggested list prices on day of announcement for the U.S. only. They are provided for your information only. Dealer prices may vary, and prices may also vary by country. IBM list price does not include tax or shipping and is subject to change without notice.

[ENUS-211-101-List_prices_2011_04_12.PDF](#)

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Corrections

(Corrected on June 23, 2011)

In the Hardware requirements section, removed the statement that an IBM system that runs IBM POWER7 processors is required.