



IBM Systems Director product enhancements provide IT professionals the tools to better manage their virtual and physical network and storage resources

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At a glance

IBM® Systems Director Storage Control V4.2.1.1 software expands the range of storage devices supported by IBM Systems Director, broadening storage management to more devices attached to IBM servers.

The main features in this release of Storage Control are:

- Connects to IBM XIV® Storage System, System Storage® DS3000, DS4000®, and DS5000 series, DS8000®, SAN Volume Controller, Storwize® V7000, and Brocade Fibre Channel switches
- Integrates heterogeneous storage support to connect to EMC storage subsystems CLARiiON, Symmetrix, and VMAX
- Eliminates the need for a separate user-managed database
- Enables storage resource discovery and inventory collection, health status , alerting, and storage capacity status
- Integrates provisioning management
- Provides a command-line interface for device discovery

IBM Systems Director Network Control V1.3 extends the networking functions of the IBM Systems Director product.

Overview

IBM Systems Director Storage Control V4.2.1.1 and IBM Systems Director Network Control V1.3 have been enhanced and will be available as optional plug-ins to IBM Systems Director V6.3.

IBM Systems Director Storage Control V4.2.1.1 provides a single control point within the data center for managing both server and storage resources. The single console allows for device discovery, correlated inventory collection, and visualization of storage resources in the data center.

IBM Systems Director Storage Control, a priced plug-in to IBM Systems Director, expands device coverage to include additional storage resources in a seamless and integrated fashion. Along with health status, the storage device configuration and inventory is collected and available for topology and table display within the resource navigator. The inventory correlation allows the user to view and understand

not only what the storage device has in its configuration, but also how it relates to the IBM servers consuming storage resources from the external storage devices.

IBM Systems Director Storage Control V4.2.1.1 adds support for a greatly expanded range of storage device support including IBM XIV Storage Systems as well as IBM System Storage DS3000, DS4000, and DS5000 series. Additionally, IBM Systems Director Storage Control now contains support for third-party EMC CLARiiON, Symmetrix, and VMAX storage devices. This new support enables ease of management of data centers with an increasingly heterogeneous storage environment.

This plug-in is also compatible with IBM Systems Director VMControl™ when the storage systems being managed are supported by the IBM Systems Director VMControl System Pools. IBM Systems Director Storage Control is also compatible with IBM Systems Director Active Energy Manager™ as it pertains to the DS8000 storage device inventory collection and management.

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

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

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Key prerequisites

IBM Systems Director Network Control V1.3 and IBM Systems Director Storage Control V4.2.1.1 require IBM Systems Director V6.3 and required updates.

IBM Systems Director Network Control is available for AIX®, Linux™ on Power®, Windows™, Linux on IBM x86, and Linux on System z® operating environments.

IBM Systems Director Storage Control is available for AIX, Windows, and Linux on IBM x86 operating environments.

For more details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

December 16, 2011

Description

IBM Systems Director Storage Control V4.2.1.1

IBM Systems Director Storage Control V4.2.1.1 provides simplification of storage resource management within the data center. With a minimal set of panels,

the installation of this plug-in is simple and straightforward, allowing rapid implementation of expanded storage device support from the Systems Director console. With Storage Control V4.2.1.1, Systems Director V6.3 expands its device support coverage to include the IBM XIV Storage System, the DS3000 storage line, the DS4000 storage line, the DS5000 storage line, the DS8000 storage line, the SAN Volume Controller line, IBM Storwize V7000, Brocade Fibre Channel switches, as well as EMC CLARiiON, Symmetrix, and VMAX storage devices.

Improved device interaction delivers greater scalability and performance. IBM XIV Storage System, IBM System Storage DS3000, DS4000, DS5000, IBM System Storage DS8000, IBM SAN Volume Controller, IBM Storwize V7000, as well as EMC CLARiiON, Symmetrix, and VMAX storage devices can now communicate with IBM Systems Director by using the storage devices' native application programming interfaces (APIs). This helps improve scalability and stability in these environments. These storage device interfaces can help significantly improve the performance of IBM Systems Director Storage Control V4.2.1.1 products when they communicate with these storage devices and deliver increased operational efficiencies and infrastructure stability.

IBM Systems Director Storage Control features and enhancements added to IBM Systems Director Storage Control V4.2.1.1 include:

- New support of IBM storage devices including IBM XIV Storage System, IBM System Storage DS3000 series, DS4000 series and DS5000 series
- New support of heterogeneous data centers by adding support of EMC CLARiiON, Symmetrix and VMAX storage devices
- Integrated DB2® database with IBM Systems Director V6.3
- Command-line interface for device discovery
- GUI for device inventory collection and display
- Health and capacity status
- GUI for topology and table views of correlated storage relationships
- Integrated storage provisioning

Integrated health reporting of the storage devices managed by this plug-in can display the device status from a variety of topology and device listing reports, enabling rapid and simple identification of storage resource status. For its database intensive operations, IBM Systems Director Storage Control uses the Systems Director management server database, which is based on IBM DB2 technology and is designed to manage data more effectively and efficiently. The increased scalability and the ability to leverage the latest data server technology helps deliver increased performance.

IBM Systems Director Storage Control V4.2.1.1 takes advantage of IBM DB2 database technology built-in to Systems Director V6.3 and does not require a separate user-managed database.

Installation of the plug-in allows the user to enjoy a complete set of inventory collection, topology and table reporting, health and capacity status tasks. IBM Systems Director Storage Control enables integrated storage provisioning capabilities.

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

IBM Systems Director Network Control V1.3

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

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

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

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

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

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

For an updated list of supported devices, visit

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

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

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

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

Accessibility by people with disabilities

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 Network Control V1.3 and IBM Systems Director Storage Control V4.2.1.1 are capable as of December 16, 2011, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of

Section 508 of the US Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Product positioning

IBM Systems Director Network Control V1.3 provides network management integrated into the server and storage management capabilities of IBM Systems Director, which is designed to help reduce the cost of managing physical and virtualized environments by using a single integrated management product.

IBM Systems Director Network Control manages network adapters and switches enhanced with storage fabric management for IBM network switches, both Ethernet and FCoCEE. IBM Systems Director Network Control gives users the ability to leverage common tools across a single switch or many switches, which can improve productivity and potentially reduce costs.

IBM Tivoli® Network Manager and OMNIbus provide additional functions beyond those provided in IBM Systems Director in event management root cause analysis and device discovery. For multivendor networks, the Tivoli Network Manager solution may be a more appropriate offering. Additional benefits of Tivoli Network Manager include:

- Tivoli Common Reporting (if the client has other Tivoli tools)
- Consolidated end-to-end view across the infrastructure (including server, storage, and network)
- Discovery, modelling, and visualization of layer 1-3 networks, including wireline/wireless technologies (LAN, RAN, and WAN)
- Integrated discovery, event and fault, performance, and change management
- Advanced predictive and analytical capabilities to reduce service impact and minimize downtime
- Comprehensive service management portfolio
- Integration to third-party management systems
- Integration supporting workflow automation

Systems Director with Storage Control provides clients a single user interface to a management system deployed on a single management server. This solution is most applicable to mid-sized and larger clients wanting to do integrated management across their server and storage environment with small teams. This is particularly valuable to administration teams that have responsibility across both the server and storage infrastructures of their companies.

Systems Director can be used with a full Tivoli Productivity Center (TPC) deployment. It integrates with TPC in a similar way as with Storage Control. This would provide clients with the deep storage management capability available from TPC that storage administrators need with a separate GUI provided by the TPC environment while still gaining the integration through Systems Director for the storage devices.

While this can be deployed on a single server, two servers is recommended. This type of environment would be more appropriate for larger IT administration groups that have deep storage management administration teams along with the need to integrate management across their storage and server infrastructure.

Reference information

Refer to Software Announcement [211-342](#), dated October 11, 2011, for IBM Systems Director V6.3, Active Energy Manager V4.4, VMControl V2.4 for Power Systems™.

Refer to Software Announcement [211-343](#), dated October 11, 2011, for IBM Systems Director Editions for Power, V6.3.

Program number

Program number	VRM	Program name
5765-NCP	1.3	IBM Systems Director Network Control
5660-NCP		SW Maintenance Regist/Renewal 1 year
5661-NCP		SW Maintenance After License 1 year
5662-NCP		SW Maintenance Registration 3 years
5663-NCP		SW Maintenance Renewal 3 years
5664-NCP		SW Maintenance After License 3 years
5765-ASM	4.2.1	IBM Systems Director Storage Control
5660-ASM		SW Maintenance Regist/Renewal 1 year
5661-ASM		SW Maintenance After License 1 year
5662-ASM		SW Maintenance Registration 3 years
5663-ASM		SW Maintenance Renewal 3 years
5664-ASM		SW Maintenance After License 3 years

Product identification number

Program PID number	Maintenance 1 year PID number	Maintenance 3-year PID number
5765-NCP	5660-NCP 5661-NCP	5662-NCP 5663-NCP 5664-NCP
5765-ASM	5660-ASM 5661-ASM	5662-ASM 5663-ASM 5664-ASM

Additional information

Evaluation software

If IBM Systems Director Network Control V1.3 or IBM Systems Director Storage Control V4.2.1.1 is downloaded from the web, the user can evaluate the product for up to 90 days under the terms of the IBM International License Agreement for Evaluation of Programs (ILAE). During the evaluation period, an option to purchase a license will be offered.

If a license is purchased, a keyfile will be shipped on a CD-ROM to enable IBM Systems Director Network Control or IBM Systems Director Storage Control to remain active and continue to work as it did, under the terms of the IBM International Program License Agreement (IPLA). Otherwise, the clients' evaluation of IBM Systems Director Network Control or IBM Systems Director Storage Control will be disabled 90 days following installation.

IBM Systems Director V6.3 Information Center availability

The IBM Systems Director Information Center website will be updated with information pertinent to IBM Systems Director V6.3 and its associated plug-ins on or before December 16, 2011. Visit

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

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).

Publications

No licensed hardcopy publications are shipped with these programs.

Publications are available in US English from the IBM Systems Director V6.3 Information Center.

The IBM Systems Director V6.3 Information Center provides you with a single information center where you can access product documentation for Systems Director V6.3 and its associated plug-ins. The IBM Systems Director V6.3 Information Center is available at

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

IBM Systems Director Network Control V1.3 and IBM Systems Director Storage Control V4.2.1.1 are dependent on IBM Systems Director V6.3 and have the same hardware requirements as IBM Systems Director V6.3. These hardware requirements are available from the IBM Systems Director V6.3 software announcement and from the IBM Systems Director V6.3 Information Center at

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

Software requirements

IBM Systems Director Network Control V1.3 is dependent on IBM Systems Director V6.3 and required updates and has the same software requirements as IBM Systems Director V6.3 server.

Note: IBM Systems Director Network Control V1.3 is not supported on AIX V5.3.

These software requirements are available from the IBM Systems Director V6.3 documentation and from the IBM Systems Director V6.3 Information Center at

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

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

IBM Systems Director Storage Control V4.2.1.1 is available for certain versions of AIX, Windows, and Red Hat Enterprise Linux on IBM x86, and is dependent on IBM Systems Director V6.3 and required updates for these operating environments.

Software requirements for IBM Systems Director Storage Control will be available on or before December 16, 2011, from the IBM Systems Director V6.3 Information Center at

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

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 work-arounds are available from the IBM Systems Director V6.3 Information Center

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

For additional information, refer to the license information document that is available on the IBM Software License Agreement website

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

Planning information

Packaging

The IBM Systems Director Network Control package contains one CD-ROM that includes product license key files.

The IBM Systems Director Storage Control package contains one CD-ROM that includes product license key files.

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, 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.

IBM Systems Director Network Control and IBM Systems Director Storage Control will be available on or before December 16, 2011, for electronic download from

<http://www.ibm.com/systems/management/director/downloads/plugins.html>

IBM Systems Director Network Control will be available for AIX, Linux on Power, Linux on IBM x86, Linux on System z, and Windows operating environments.

IBM Systems Director Storage Control will be available for AIX, and Windows and Red Hat Enterprise Linux on IBM x86 operating environments. This program, when downloaded from a website, 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 Network Control V1.3 and IBM Systems Director Storage Control V4.2.1.1 use the security and auditability features of the host 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 Network Control V1.3	5765-NCP	Per server & switch
SW Maintenance Regist/Renewal 1 year	5660-NCP	Per server & switch
SW Maintenance After License 1 year	5661-NCP	Per server & switch
SW Maintenance Registration 3 years	5662-NCP	Per server & switch
SW Maintenance Renewal 3 years	5663-NCP	Per server & switch
SW Maintenance After License 3 years	5664-NCP	Per server & switch
IBM Systems Director Storage Control V4.2.1.1	5765-ASM	Per server
SW Maintenance Regist/Renewal 1 year	5660-ASM	Per server
SW Maintenance After License 1 year	5661-ASM	Per server
SW Maintenance Registration 3 years	5662-ASM	Per server
SW Maintenance Renewal 3 years	5663-ASM	Per server
SW Maintenance After License 3 years	5664-ASM	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 and partitions in the server or the number of copies of the program on the server.

A Proof of Entitlement (PoE) must be obtained for each server regardless of the number of processor cores or partitions in the server on which the program runs.

Switch

A switch is the unit of measure by which a portion of this program is licensed. A switch is a networking device that processes and routes information between different connections on the ports of the switch.

A Proof of Entitlement (PoE) must be obtained for each switch being managed by the program regardless of the number of line cards or ports in the switch.

IBM Systems Director Network Control

IBM Systems Director Network Control uses per server and per switch charging metrics. A server license is required for the machine running the IBM Systems

Director Network Control program. A license is also required for each switch and router being managed, based on its size and type. Switches and routers are categorized as small, medium, or large, based on the following categories:

- Small: Small switches are machines with a fixed number of ports that require 1U or 2U of rack space.
- Medium: Medium switches are modular machines that can support up to eight optional interface or controller modules.
- Large: Large switches are modular machines that can support more than eight optional interface or controller modules.

A detailed list of supported IBM Ethernet switches is available at

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

Orders may be placed beginning with configurator availability.

For new orders for IBM Systems Director Network Control V1.3, select from the following table:

Description	OTC feature number
Per Server with 1 year SW Maintenance	0001
Per Switch Small with 1 year SW Maintenance	0002
Per Switch Medium with 1 year SW Maintenance	0003
Per Switch Large with 1 year SW Maintenance	0004

IBM Systems Director Storage Control

IBM Systems Director Storage Control uses per server charging metric. A server license is required for each installation of the IBM Systems Director Storage Control program.

IBM Systems Director Storage Control requires a keyfile to make the product operational after the 90-day evaluation period. This keyfile is sent on a CD-ROM after placing an order for the 5765-ASM product.

Orders may be placed beginning with configurator availability.

For new orders for IBM Systems Director Storage Control V4.2.1.1 select from the following table:

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

Upgrades

IBM is releasing upgrade features to support IBM Systems Director Storage Control upgrades to IBM Tivoli Storage Productivity Center Basic Edition.

Description	OTC feature number
Upgrade from 5765-ASM to 5608-WB1	0003

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 for IBM Systems Director Network Control V1.3

Software Maintenance (SWMA) is included with the product license for IBM Systems Director Network Control V1.3. The scope of IBM Systems Director Network Control V1.3 SWMA also includes support for the IBM Systems Director V6.3 management server on which the IBM Systems Director Network Control application is running. With this extended coverage, clients gain greater value from their IBM Systems Director Network Control software environment and are assured that they have support for IBM Systems Director Network Control and the prerequisite IBM Systems Director management server environment. This offering does not include support for IBM Systems Director V6.3 on servers being managed by Systems Director. Software Maintenance for IBM Systems Director is available for IBM Power Systems via 5765-DRP. SWMA for IBM Systems Director Network Control may be obtained by ordering the following:

Feature description	Program number	OTC feature number
SW Maintenance Registration/Renewal 1 year	5660-NCP	
Per Server 1 year No-Charge Regist		1457
Per Server 1 year Renewal		1458
Per Switch Small 1 year No-Charge Regist		1459
Per Switch Small 1 year Renewal		1460
Per Switch Medium 1 year No-Charge Regist		1461
Per Switch Medium 1 year Renewal		1462
Per Switch Large 1 year No-Charge Regist		1463
Per Switch Large 1 year Renewal		1464
SW Maintenance After License 1 year	5661-NCP	
Per Server 1 year After License		0485
Per Switch Small 1 year After License		0486
Per Switch Medium 1 year After License		0487
Per Switch Large 1 year After License		0488
SW Maintenance Registration 3 years	5662-NCP	
Per Server 3 years Registration		0722
Per Switch Small 3 years Registration		0723
Per Switch Medium 3 years Registration		0724
Per Switch Large 3 years Registration		0725
SW Maintenance Renewal 3 years	5663-NCP	
Per Server 3 years Renewal		0130
Per Switch Small 3 years Renewal		0131
Per Switch Medium 3 years Renewal		0132
Per Switch Large 3 years Renewal		0133
SW Maintenance After License 3 years	5664-NCP	
Per Server 3 years After License		0001
Per Switch Small 3 years After License		0002
Per Switch Medium 3 years After License		0003
Per Switch Large 3 years After License		0004

Note: IBM Systems Director Network Control 1 year and 3-year Software Maintenance renewals in the US are orderable via 5660-NCP and 5663-NCP, respectively.

Software Maintenance for IBM Systems Director Storage Control V4.2.1.1

The scope of IBM Systems Director Storage Control V4.2.1.1 SWMA also includes support for the IBM Systems Director V6.3 management server on which the IBM Systems Director Storage Control application is running. With this extended coverage, greater value is gained from already existing IBM Systems Director Storage Control software environments, assuring support for IBM Systems Director Storage Control and the prerequisite IBM Systems Director management server

environment. This offering does not include support for IBM Systems Director V6.3 on servers being managed by Systems Director. SWMA for IBM Systems Director Storage Control may be obtained by ordering the following:

Feature description	Program number	OTC feature number
SW Maintenance Registration/Renewal 1 year Per Server 1 year No-Charge Registration Per Server 1 year Renewal	5660-ASM	1651 1652
SW Maintenance After License 1 year Per Server 1 year After License	5661-ASM	0596
SW Maintenance Registration 3 years Per Server 3 years Registration	5662-ASM	0873
SW Maintenance Renewal 3 years Per Server 3 years Renewal	5663-ASM	0178
SW Maintenance After License 3 years Per Server 3 years After License	5664-ASM	0001

Note: IBM Systems Director Storage Control 1 year and 3-year Software Maintenance renewals in the US are orderable via 5660-ASM and 5663-ASM, respectively.

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

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-A6P	IBM Systems Director Network Control V1.3	2261
5692-LOP	IBM Systems Director Network Control V1.3	2262

The IBM Systems Director Storage Control (5765-ASM) licensed program does not use the SPO.

5765-ASM	CD Deliverable (with HLI 3410)	5809
5765-ASM	Registration Only	3444
5765-ASM	Electronic Software Delivery	3450
5765-ASM	Ship Media Only	3470
5765-ASM	Ship Documentation Only	3471

Expedite feature for licensed programs and SWMA programs:

5765-NCP	Branch Office Expedite	3445
5660-NCP	Branch Office Expedite	3445
5661-NCP	Branch Office Expedite	3445
5662-NCP	Branch Office Expedite	3445
5663-NCP	Branch Office Expedite	3445
5664-NCP	Branch Office Expedite	3445
5765-ASM	Branch Office Expedite	3445
5660-ASM	Branch Office Expedite	3445
5661-ASM	Branch Office Expedite	3445
5662-ASM	Branch Office Expedite	3445
5663-ASM	Branch Office Expedite	3445
5664-ASM	Branch Office Expedite	3445

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

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.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

License Information form number

IBM Systems Director Network Control (LC23-5079)

IBM Systems Director Storage Control (GC52-1372)

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

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No

System i Software Maintenance applies

No

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No

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