



IBM i 7.1 Technology Refresh 5 offers performance, usability, and integration enhancements

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At a glance

IBM® i continues to protect your investment with enhancements.

- Simpler, easy-to-use IBM i management tools for IBM i
- Simpler install and management of IBM WebSphere® Application Server on IBM i
- Easier programming access to native IBM i artifacts using the new Java™ tool box, JTOpen Lite, or the XML Service for i
- New hardware enabling the latest technology and providing more technology choices for I/O
- Better DB2® function, delivered faster and in a smarter, more secure way
- New cloud support for IBM i with SmartCloud Entry, and Systems Director enhancements
- IBM i support enhanced for IBM InfoSphere® Guardium® V9, IBM WebSphere Application Server V8.5, IBM WebSphere Portal V8.0, and IBM WebSphere Commerce V7 Feature Pack 5

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: AE001).

Overview

IBM i 7.1 Technology Refresh 5¹ provides performance, usability, and integration enhancements, both with the IBM i program offering and the related offerings from IBM Software Group.

- IBM i
 - IBM Web Administration GUI provides:
 - GUI interface for IBM WebSphere Application Server V8.5 and IBM WebSphere Portal V8.0
 - GUI interface for product and fix installation support for WebSphere Application Server V8.0 and V8.5
 - IBM HTTP Server is enhanced to handle files larger than 2 GB.
 - The JTOpen Lite (JTLite) library provides a new small format Java tool box to access IBM i native objects for mobile applications.
 - IBM Navigator for i usability and performance enhancements.
 - The new XML Service for IBM i toolkit provides a language-independent way to access native IBM i objects.

- IBM Facsimile Support for IBM i is enhanced to support a significantly lower priced 2-port asynchronous communications adapter.
- IBM i 7.1 TR5 includes support of new IBM Power® hardware, firmware, and I/O, including Power 770 and Power 780, USB Tape, USB and SATA Removable Hard Drives (RDX support), and lower cost async communications adapters.
- DB2 for IBM i:
 - Better, faster, and smarter performance
 - New and enhanced SQL statements, database APIs, and database commands
- BRMS Enterprise extends the popular BRMS product to provide centralized monitoring and automation of backup processes on distributed systems.
- IBM i cloud enhancements:
 - The IBM Systems Director VMControl™ system pool simplifies workload.
 - The Systems Director monitor is enhanced to easily navigate and create monitor views and directly reply to a message.
 - Platform management support of Power blades.
- HMC V7 R7.6.0 is enhanced with the following:
 - Ability to simultaneously move 16 partitions at the same time
 - HMC blades management, including redundant VIOS, Active Memory™ Sharing, Suspend/Resume, and Live Partition Mobility
- IBM Software Group software enhancements for IBM i are as follows:
 - InfoSphere Guardium V9.0 includes DB2 for IBM i as a data source.
 - IBM WebSphere Commerce V7 Feature Pack 5 is supported by IBM i.
 - WebSphere Application Server V8.5.

¹ In this announcement letter, the term *Technology Refresh 5* refers to the set of PTFs required to support new hardware functionality. The term *Technology Update* refers to the multiple PTFs or PTF groups that will provide additional functionality in IBM i and related products. The term *Technology Refresh* is widely used to group both of these together. Availability of IBM i 7.1 TR5 and related products are available as noted in the [Description](#) section.

Key prerequisites

Refer to the [Technical information](#) section for specific hardware and software prerequisites.

Planned availability date

October 9, 2012

Description

IBM i is known for integration, ease of use, and simplicity. IBM i 7.1 TR5 delivers significant functional enhancements to IBM i while maintaining and enhancing the ongoing tenets for which it is known.

IBM Navigator for i

The interface previously known as IBM Systems Director Navigator for IBM i has undergone a significant transformation. The functionally rich interface is being improved with significant usability and performance enhancements. This announcement marks the first step in the path toward transforming the web-based Navigator, maintaining the rich functionality, to make it not only rich in function but also highly usable and reliable.

Some of the key functions that have been enhanced are:

- Name: Simplifying the name reflects the move to simplicity. Systems Director Navigator is renamed to IBM Navigator for IBM i.
- Left navigation: This is the most significant update to the interface. In the past, the left navigation was a static list of only core functions. This announcement provides complete dynamic navigation, making the left frame a true navigation area. This new enhancement will significantly change how the system is managed.
- Dynamic tables: The existing tables in Navigator are being replaced with a new Dojo-based table interface. This new dynamic table provides a fast and more usable platform for viewing and managing tables of data.
- Independent tabs: Tab support has been improved by no longer completely refreshing a page when switching from tab to tab. The page contents are cached, and the page is only refreshed as needed or requested by the user.
- User profile management from signon screen: User IDs can be updated as needed from the Navigator signon screen. Users with expired passwords may now update the password and then sign in to the interface from a single location.

<http://dojotoolkit.org/license>

IBM Navigator for IBM i support will be available on December 15, 2012.

- IBM i 7.1: 5770-SS1 SF99368 HTTP PTF Group Level 16, or later
- IBM i 6.1: 5761-SS1 SF99115 HTTP PTF Group Level 28, or later

XML Service for IBM i:

The XML Service is an exciting new way for many languages to access native IBM i objects. This new toolkit provides a language-independent way for XML to access (read and write) objects such as programs, procedures, data areas, data queues, message queues, commands, spool files, DB2 for i (both SQL and Native), and much more. The XML Service can be accessed from PHP, Java, Ruby, RPG, or other languages that can work with XML. Additional details can be found on the open source site

<http://www.youngprofessionals.com/wiki/XMLSERVICE>

In addition to the open source site, the runtime version will be available on December 15, 2012.

- IBM i 7.1: 5770-SS1 SF99368 HTTP PTF Group Level 16, or later
- IBM i 6.1: 5761-SS1 SF99115 HTTP PTF Group Level 28, or later

IBM Web Administration for i GUI

The IBM Web Administration GUI provides a GUI interface for managing IBM WebSphere Application Server V8.0 and V8.5 and IBM WebSphere Portal V8.0. The Web Administration GUI for IBM i is enhanced to leverage the new Install Manager technology, providing a new product installation capability for both WebSphere Application Server V8.0 and V8.5. Installation of a new WebSphere Application Server product, updates to an existing installation with interim fixes or fix pack, uninstalls of interim fixes from an existing installation, or uninstalls of the product installation are all supported functions of the Web Administration GUI.

This support is delivered as part of the latest HTTP PTF Group level and will be available on December 15, 2012.

- IBM i 7.1: 5770-SS1 SF99368 HTTP PTF Group Level 16, or later
- IBM i 6.1: 5761-SS1 SF99115 HTTP PTF Group Level 28, or later

For more details on Web Administration GUI and WebSphere products, refer to the IBM iZone in developerWorks®

<http://www.ibm.com/developerworks/ibmi/techupdates/web>

IBM HTTP server plug-in module

IBM HTTP Server plug-in module is enhanced to handle files larger than 2 GB. In today's Internet world, the size of files being transferred continues to grow. To satisfy the business needs of IBM i clients, the HTTP server has been enhanced to support larger files. For those clients still requiring functionality from plug-ins added prior to the December PTF groups, they may need to recompile those plug-ins to enable the new support. For clients using IBM WebSphere Application Server on IBM i, installing the latest fix packs will provide the corrected HTTP server plug-in. See the IBM i Technology Updates wiki on developerWorks for more details

<http://www.ibm.com/developerworks/ibmi/techupdates/web>

JTOpen Lite (JTLite)

As the world moves to mobility and support of mobile devices, so does IBM i. The JTOpen Lite/JTLite is a library of Java classes supporting the mobile programming models to a system running the IBM i operating system. Currently, JTOpen Lite supports mobile devices capable of running a Java environment. Refer to the IBM i Technology Updates wiki on developerWorks for more details

<http://www.ibm.com/developerworks/ibmi/techupdates/db2>

DB2 for IBM i

The self-managing value proposition of DB2 for IBM i is being extended with additional built-in improvements for better performance and usability. Moving up to the suggested DB2 PTF Group will result in a database that runs better, faster, and smarter.

- Better performance
 - Taking advantage of IBM's patented EVI indexing technology, analytics routines using SQL Constructs such as ROLLUP, CUBE, and Grouping Sets can see performance benefits.
 - Queries to obtain user authorization information by accessing DB2 for i catalogs are greatly improved.
 - Additional performance information is available through enhancements in client-based System Navigator for i, including the ability to analyze queries specifically using SQE where indexes are being advised and providing additional information about those indexes.
- Security
 - Because long schema names were added in IBM i 7.1, there is increased use of the QSYS2/SYSSCHEMAS catalog to determine system names (library names) for corresponding SQL schema names. An enhancement is being added that removes uninteresting AF security journal records, thereby improving the efficiency of security auditing.
- Programming and command interfaces
 - Create table with remote subselect: Create a table using data selected from a remote database, even a non-DB2 for IBM i remote database.
 - System naming support tolerates SQL naming usage with SQL (use both schema.table and schema/table) when using *SYS naming.
 - Global variables can be modified within triggers and functions, making it easier to implement cross-application business logic.
 - JTOpen Lite is a new Java toolkit designed for better performance and reducing the application footprint for mobile apps interacting with DB2 for IBM i databases.
 - And many more enhancements.
- Database management
 - NULLID package management: Automating the creation of necessary objects, such as collections and dynamic packages, to more seamlessly allow applications using DB2 family database connectivity methods to access data in DB2 for IBM i.

- CPYTOIMPF and CPYFRMIMPF commands: Enhanced capability for these bulk import/export commands to include or ignore database column names.
- RUNSQLSTM command includes a new option to provide direct control over the command output file, with no unnecessary spool file accumulation.
- Automatic updating of program information contained in the QSYS2/SYSROUTINE SQL Catalog when moving or copying an SQL program or service programs (stored procedure or user-defined function).

Visit the IBM i Technology Updates wiki on developerWorks to learn more about these and other DB2 for IBM i enhancements

<http://www.ibm.com/developerworks/ibmi/techupdates/db2>

- DB2 for i enhancements are available with:

- IBM i 7.1: 5770-SS1 SF99701 DB2 PTF Group Level 18, or later
- IBM i 6.1: 5761-SS1 SF99601 DB2 PTF Group Level 28, or later

To see the detailed DB2 for IBM i 2012 PTF Group Schedule on developerWorks , visit

<http://www.ibm.com/developerworks/ibmi/techupdates/db2/groupptf>

Enhancements to Support IBM i in the Cloud

IBM Systems Director VMControl system pool support for IBM i simplifies workload management for rapidly deploying virtual appliances to create virtual servers that are configured with the operating system and software applications on demand. Virtualization administrators can group resources into system pools, which enable them to centrally manage and control the different workloads in their virtualized environment. VMControl manages virtual appliances that use the Open Virtualization Format (OVF) for packaging, delivery, and deployment of preconfigured, ready-to-run solutions.

With the enhanced Systems Director monitor function, users can easily navigate the CIM metrics and create their own monitor view for resources without knowing CIM. Eighty new metrics monitor commands are added to Systems Director (as compared to 34 metrics in last release), which greatly extend monitor infrastructure and event automation capability.

Systems Director can monitor a message in the message queue in multiple ways. In the latest releases, users can directly reply to a message through the Systems Director GUI.

The Service and Support manager will support HMC-managed IBM i partitions with centralized problem reporting. With Partition Mobility scaling improvements, a user can simultaneously move 16 partitions at the same time.

SmartCloud Entry for IBM i

SmartCloud Entry for IBM i is an affordable, easy-to-install, and simple-to-use private cloud solution. It accelerates service delivery with automation through an intuitive self-service interface, ensures reliability with standardization and oversight, as well as basic metering and image management. SmartCloud Entry helps customers get up and running and realizing the benefits of private cloud quickly.

The most recent release, Version 2.4, now provides heterogeneous management so customers can provision resources to both x86 and Power platforms from a single pane of glass. SmartCloud Entry is ordered as a bundle, including the System Director prerequisites. The Power Systems™ Solution Edition for Cloud, a configurable system, prebuilt and preinstalled is also available providing the fastest time to value.

HMC enhancements

HMC V7 R7.6.0 is enhanced with the following:

- IBM delivers PowerVM® Live Partition Mobility and Suspend/Resume support for IBM i partitions on IBM POWER7® blades.
- Additional HMC Blades management capability includes redundant VIOS and Active Memory Sharing.
- HMC has the ability to simultaneously move 16 partitions at the same time.

These HMC enhancements deliver equivalent platform management support of Power blades, currently provided by SDMC and more. Blade support will include both POWER6® and POWER7 blades. The HMC enhancements include the ability to connect to and manage (PowerVM) POWER® blades and provide SFP support, such as code update, dump, problem analysis, and R&V, as provided in SDMC.

For more information about HMC enhancements, refer to Hardware Announcement [112-175](#), dated October 03, 2012 .

MSP Utility Pricing Offer for Managed Service Providers

The MSP Utility Pricing Offer is a program that leverages channel-led discounting for Managed Service providers who purchase a Cloud Hosting Infrastructure built with IBM hardware and software.

In addition, IBM is announcing the MSP Core Use Payment PRPQ (P91287). An MSP would order a quantity of Core Use Features (combination of MSP Per Processor Core and MSP Per 10 Processor Cores) for program number 5799-MSP each quarter to make their use payment if the Cloud Infrastructure included Flex System Compute Nodes. The quantity of features to be ordered would be determined by the MSP's actual use of the Cloud Infrastructure (average cores assigned to started client virtual servers).

Hardware support enhancements:

IBM i 7.1 and IBM i 6.1 support the new IBM Power 770 server (9117-MMD) and the new IBM Power 780 server (9179-MHD). These new systems use the latest POWER7+ processor and the next-generation I/O technology, designed to deliver unprecedented performance, scalability, reliability, and manageability for demanding commercial workloads.

IBM i 7.1 and IBM i 6.1 add support for RDX Removable Media Devices. RDX docking stations and drives can provide a more reliable, higher performance, and lower cost option to traditional entry tape options such as DAT160 and older QIC and LTO-2 tape drives. IBM i 7.1 supports USB RDX Removable Disk on newer servers. Both IBM i 7.1 and IBM i 6.1 support the new SATA RDX Removable Disk (#EU07) on many earlier servers.

IBM i 7.1 has also been extended to include direct support for the USB attached 80 GB/160 GB DAT160 USB Tape Drive (#EU16). Feature EU16 is enclosed in a Power 720/740/750 system unit and driven through a USB connection. Its drive performance is the same as the existing SAS DAT160 drives (#5619), but it does not use the integrated SAS controller and thus may offer an overall performance advantage to the system by potentially avoiding bandwidth contention.

IBM i 7.1 adds support for a lower cost async communication adapter, which is significantly lower price than the existing feature 2893 and 2894 2-port communication adapters. As of 2012, PPP is not supported, but non-PPP async function is supported. This includes IBM i support for fax with an appropriate modem.

For more information about these enhancements and others that are included with IBM i 7.1 Technology Refresh 5, visit the Hardware and Firmware section of IBM i Technology Updates wiki on developerWorks at

<http://www.ibm.com/developerworks/ibmi/techupdates/hw>

IBM i license transfer adds the following:

Additional eligible receiving servers:

- Group 2:
 - Power 770 (9117-MMD)
- Group 3:
 - Power 780 (9179-MHD)

Program products support new hardware

IBM Facsimile Support for IBM i is enhanced to support a significantly lower priced 2-port asynchronous communications adapter (#5289 and #5290).

- IBM i 7.1: SF99707 Technology Refresh PTF Group, Level 5, or later
- IBM Facsimile 5798FAX V5R7M0 - SI47665

New Enterprise Function for IBM BRMS

IBM Backup, Recovery, and Media Services (BRMS) Enterprise allows administrators to monitor backup operations for their BRMS systems from a central site called an *Enterprise Hub*. The systems being monitored by the hub are called *Enterprise Nodes*. The *Enterprise Network* is comprised of nodes that can be stand-alone BRMS systems, part of a BRMS Network, or any combination of stand-alone and BRMS Networked systems.

BRMS Enterprise is supported exclusively through the BRMS GUI Client on IBM Navigator for i or IBM System i® Navigator.

<http://www-03.ibm.com/systems/i/software/navigator/windows.html>

The hub and the nodes must all have current base licenses for IBM Backup, Recovery, and Media Services for i. The hub must also have current licenses for the BRMS Network feature and BRMS Advanced feature options.

The hub must be at IBM i 7.1 but nodes may be at any release V5R4M0 or newer with the BRMS PTF applied.

PTF support for the BRMS Enterprise enhancement is expected in December 2012. For availability, refer to

<https://www.ibm.com/developerworks/ibmi/techupdates/brms>

IBM Software Group product enhancements for IBM i

InfoSphere Guardium V9.0 extended to include DB2 for IBM i as a data source

InfoSphere Guardium is an enterprise information database audit and protection solution. It helps enterprises protect and audit information across a diverse set of relational and nonrelational data sources. With InfoSphere Guardium V9.0, DB2 for IBM i can now be included as a data source, enabling the monitoring of accesses from native interfaces as well as through SQL.

Audit information provided includes:

- SQL accesses, whether initiated on a client or the IBM i server.

- Native database access that is captured in the audit journal.
- Both SQL access and native access are sent to the InfoSphere Guardium collector in real time.
- Extending the information available in the audit journal, InfoSphere Guardium captures more details regarding SQL statements, variable values, client special registers, interface information, users, jobs, TCP/IP addresses, and ports.
- Filtering can be specified on the IBM i server to capture only that information which is required by auditors. For example, it is quite simple to set up auditing of any SQL or native access performed by privileged users.

Visit this article on developerWorks to find out more

<http://www.ibm.com/developerworks/ibmi/>

IBM WebSphere Application Server V8.5 available for IBM i

IBM WebSphere Application Server is the leading open standards-based application foundation, offering accelerated delivery of innovative applications and unmatched operational efficiency, reliability, administration, security, and control on IBM i. IBM WebSphere Application Server V8.5 is available for IBM i. For more information, refer to Software Announcement [212-109](#), dated April 24, 2012 .

IBM WebSphere Commerce V7 Feature Pack 5 available for IBM i

IBM WebSphere Commerce V7.0 provides a powerful customer interaction platform for cross-channel and online commerce. E-commerce is no longer simply about selling things online. It is about delivering a seamless, integrated experience across all touch points. WCS V7 Feature Pack 5 provides extensions to the base commerce capabilities to include easier implementation of the starter store, social networking, and so on. In addition to Feature Pack 5, support for Feature Packs 1-4 are also included. For more information, refer to Software Announcement [212-109](#), dated April 24, 2012 .

Statement of direction

IBM plans to provide IBM Image Construction and Composition Tool support for IBM i.

IBM plans to provide PowerVM Live Partition Mobility support for IBM i partitions on IBM PureFlex™ Systems.

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.

Reference information

Refer to:

- Hardware Announcement [112-186](#), dated October 03, 2012
- Hardware Announcement [112-174](#), dated October 03, 2012
- Hardware Announcement [112-180](#), dated October 03, 2012

Program number

The 5770-SS1, 5765-G97, 5765-G98, and 5765-G99 were previously announced and assigned. This announcement adds new MSP features to these PIDs.

Program number	VRM	Program name
5770-SS1	V7.1	IBM i V7
5765-G97	V7.1.x	AIX® V7 Express
5765-G98	V7.1.x	AIX V7 Standard
5765-G99	V7.1.x	AIX V7 Enterprise

Product identification number

Program PID number	Maintenance 1-year PID number	Maintenance 3-year PID number
5770-SS1	N/A	N/A
5765-G97	N/A	N/A
5765-G98	N/A	N/A
5765-G99	N/A	N/A

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=212-379>

Publications

No publications are shipped with these programs.

Technical information

Specified operating environment

Hardware requirements

A supported Power Systems server or BladeCenter® server is required. For a list of supported servers, visit

<https://www-304.ibm.com/support/docview.wss?uid=ssm1platformibmi>

More specific hardware requirements are on the IBM i Technology Updates wiki on developerWorks at

<http://www.ibm.com/developerworks/ibmi/techupdates/hw>

Software requirements

For more details on software requirements, visit

<http://www.ibm.com/developerworks/ibmi/techupdates>

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.

Companion products

The MSP Utility Pricing Offer is a program that leverages channel-led discounting for Managed Service providers who purchase a Cloud Hosting Infrastructure built with IBM hardware and software.

Limitations

Full native I/O support by IBM i 7.1 is provided, but IBM i 6.1 I/O support of these POWER7+ servers requires all I/O to be virtualized by either IBM i 7.1 or by VIOS. Also note that not all I/O can be virtualized, including asynchronous communication adapters and cryptographic adapters. IBM i 6.1 is orderable on PureFlex systems as an MES. IBM i 6.1 is not orderable on initial orders of PureFlex hardware.

Planning information

Security, auditability, and control

These programs use the security and auditability features of the host hardware or software. 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

Note: All 5770-SS1, 5765-G97, 5765-G98, and 5765-G99 previously announced and assigned. This announcement adds new MSP features to these PIDs.

Program name	Part number or PID number	Charge metric
IBM i V7	5770-SS1	Per processor core
AIX V7 Express®	5765-G97	Per processor core

AIX V7 Standard	5765-G98	Per processor core
AIX V7 Enterprise	5765-G99	Per processor core

Features

IBM i V7 (5770-SS1)

IBM i V7 (5770-SS1)	Feature number
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Charge features

MSP	1582
MSP Per 10	1583

AIX V7 Express (5765-G97)

AIX V7 Express (5765-G97)	Feature number
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Charge features

MSP	0016
MSP Per 10	0017

AIX V7 Standard (5765-G98)

AIX V7 Standard (5765-G98)	Feature number
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Charge features

MSP	0027
MSP Per 10	0026

AIX V7 Enterprise (5765-G99)

AIX V7 Enterprise (5765-G99)	Feature number
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Charge features

MSP	0029
MSP Per 10	0028

Terms and conditions

The following terms and conditions are for 5770-SS1.

For information on terms and conditions for 5765-G97, 5765-G98 and 5765-G99, refer to Software Announcement [210-200](#), dated August 17, 2010 .

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

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

Yes

System i Software Maintenance applies

Yes

Variable charges apply

No

Educational allowance available

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

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or

services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

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.

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