



IBM i 7.1 enhancements enable robust cloud solutions

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At a glance

The IBM® i 7.1 Technology update delivers the following:

- POWER7 Systems™ Live Partition Mobility, providing the next step in virtualization and enabling more robust cloud solutions.
- IBM Software Group Support for IBM i Workgroups, allowing the licensing of IBM software products to reflect usage.
- More granular security options for users have been added to DB2® WebQuery, and a relaunch of the product simplifies the ordering process.
- DB2 for i performance and security enhancements along with new features to improve the productivity of software developers.
- Extended capabilities of the PowerHA® Metro Mirror, Global Mirror, and FlashCopy® functions to the recently announced IBM Storage Systems Storwize® V7000 and SAN Volume Controller (SVC).
- Application Management ToolSet (AMTS) from IBM Rational® to be used by application providers who need to edit and compile installation scripts or application managers needing to use "work with" capabilities.
- IBM Web Enablement for i (5722-WE2) has been enhanced to include WebSphere® Application Server - Express® V8.5.

Overview

The IBM i 7.1 Technology update builds on the foundation established by the IBM i 7.1 release. It includes significant new function providing additional capabilities to our clients who are moving to cloud implementations. As with previous Technology updates, additional functions and features have been added to key IBM i technologies such as DB2 , DB2 WebQuery, and PowerHA .

IBM i 7.1 Technology updates:

- POWER7 Systems Live Partition Mobility minimizes the impact of planned outages by enabling the movement of running partitions from one server to another. This capability enables the implementation of more robust cloud solutions.
- POWER7 Systems Virtual Image Management allows clients to create and manage images and system templates, expediting the process of creating and deploying virtual servers.
- DB2 for i delivers performance and security enhancements along with new features that will improve the productivity of software developers.
- IBM Passport Advantage® Sub-capacity Licensing offering has been expanded to include new eligibility and counting rules for IBM i Workload Groups.

- IBM DB2 Web Query is now available with a new product structure to simplify packaging. The product is now available as either an Express or a Standard offering. Enhancements also include a focus on more granular user security with an entirely new user security center.
- The IBM i for Business Intelligence solution, a packaged solution of hardware, software, and installation services, has been refreshed with the latest version of the DB2 Web Query Standard edition product.
- IBM Application Runtime Expert for i includes enhancements to support easier access to the product without compromising the overall security of the system.
- IBM Developer Kit for Java™ has been enhanced to support Java 7 for IBM i. Clients developing Java applications can now use the most recent enhancements to the Java language.
- IBM PowerHA SystemMirror for i is adding support for the recently announced Storwize V7000 and SAN Volume Controller (SVC) storage systems to its Metro Mirror, Global Mirror, and FlashCopy functions.
- The newest member of the IBM i Access family of products is available as a technology preview only. Written in Java, this product extension removes the dependence on preinstalled and configured code and allows clients to easily put key IBM i Access client code onto a variety of other devices, including Mac and Linux™.
- IBM i support for new I/O emphasizes price/performance and configuration flexibility, especially for SSD, Ethernet, and External Storage configurations.
- IBM Rational Application Management Toolset for i provides system administrators and other advanced users with a lightweight set of tools for the common tasks of working with library objects and building procedures with Command Language (CL).
- IBM Web Enablement for i (5722-WE2) has been enhanced to include WebSphere Application Server - Express V8.5.

Key prerequisites

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

Planned availability date

June 15, 2012

- IBM Web Query for System i® Standard (5733-WQS)
- IBM Web Query for System i Express (5733-WQE)
- IBM Web Query for System i (5733-WQX)
- WebSphere Express V8.5 (5722-WE2)
- Remove Keys/ePOEs for Transferred Software (5733-NKY)

Temporary license keys for 5770-HAS will be available April 27, 2012.

IBM i Technology updates are available on May 18. The software requirement details can be found at

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

Description

IBM i base operating system enhancements

- IBM i Live Partition Mobility allows for the movement of a running partition from one POWER7® server to another with no application downtime, resulting in better system utilization and improved application availability.

Live Partition Mobility is a major step in IBM's Power Systems™ virtualization continuum. It can be combined with other virtualization technologies, such as logical partitions with shared I/O and storage, to provide a fully virtualized computing platform that offers the degree of system and infrastructure flexibility required by today's production data centers.

Live Partition Mobility is a feature of the PowerVM™ Enterprise Edition offering.

For information on IBM PowerVM support refer to IBM PowerVM Standard Edition and PowerVM Enterprise Edition (5765-PVS)

http://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_sm/s/897/ENUS5765-PVS/index.html&lang=en&request_locale=en

For more information about IBM i Live Partition Mobility, visit the Hardware and Firmware section of IBM i Technology Updates wiki on developerWorks® at

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

- Virtual Image Management provides a single, unified view of all system templates and virtual server images to help you manage and deploy systems. It allows you to easily deploy new physical and virtual systems based on system templates and images. The templates can be used to create, customize, and clone virtual and physical images.

Features at a glance

- Simple virtual server provisioning
- Self-contained images that prevent managing dependencies or problems
- Rapid provisioning
- Off-line cloning and customization
- Common model for physical and virtual servers

Virtual Image Management is a feature of VMControl V2.4 Standard Edition.

For information on IBM Systems Director VMControl™ V2.4 Standard Edition support, refer to Enhanced function for IBM Systems Director Standard and Express Editions

http://www-01.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_ca/0/897/ENUS211-410/index.html&lang=en&request_locale=en

- DB2 for IBM i enhancements
 - DB2 for IBM i on 7.1 included base XML datatype support, enabling XML documents to be stored intact within a column in an SQL table. With new XMLTABLE support, SQL queries can use XPath syntax to refer to XML data as an SQL result set. This allows the user to query XML data using SQL, without having to shred the document into database tables or host variables.
 - DB2 for i three-part name support is extended to allow multiple database reference support in the form of INSERT with remote SUBSELECT. This improvement eases database administration and programming by allowing data to reside in a single location.

To learn about these and the other DB2 for i enhancements, visit the DB2 for i section of the IBM i Technology Updates wiki on developerWorks at

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

- Workload Groups IBM i Workload Groups is now an Eligible Virtualization Technology for Passport Advantage Sub-capacity Licensing. Passport Advantage Sub-capacity Licensing allows customers to license an eligible software product for less than the full capacity of a server. It provides the licensing granularity needed to leverage various multi-core chip and virtualization technologies. As more customers take advantage of virtualization technologies in their server environments, IBM continues to introduce enhancements to the Sub-capacity Licensing offering.

For details and current information about Sub-capacity Licensing terms, visit the following

<http://www.ibm.com/software/lotus/passportadvantage/subcaplicensing.html>
<http://www.ibm.com/software/tivoli/products/license-metric-tool>
http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

To learn more, visit the IBM i Technology Updates wiki on developerWorks at

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

IBM i licensed program enhancements

IBM DB2 Web Query for i (5733-WQE, 5733-WQS) is relaunched under a new product structure, 5733-WQX. This product structure provides both an Express and Standard level offering for simplified ordering and to help you match capabilities to your business needs. The product also provides core-based pricing to let customers order a level of Web Query that best fits their needs for their environment.

The new product provides many new functional enhancements that make the product even simpler to use, yet more powerful in capabilities. Creating reports and dashboards is made easier and faster using a single, consolidated web-based editor. A new web browser-based user security administration interface allows Web Query administrators to manage developers and users simpler and easier. Not only can users be managed through this new interface, those users can also be assigned specific roles, which enables more granular security controls for each user. New to the product is also a web-based metadata synonym editor to allow metadata management integration with the rest of the web-based interfaces. Report scheduling now supports standard IBM i job scheduling for those customers that want to integrate report scheduling with other batch work on the system.

Current DB2 Web Query customers with product 5733-QU2 will be entitled to the new product and will appreciate the built-in migration support in the new product to make the move simple.

The DB2 Web Query product 5733-WQX is available for IBM i 6.1 and 7.1.

Visit the IBM i Technology Updates wiki on developerWorks to learn more at

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

IBM Application Runtime Expert for i (5733-ARE) now includes a number of significant enhancements to make Application Runtime Expert more readily available to those that need to use it without compromising the overall security of their system. A number of additional enhancements have been added to improve users' ability to verify information on their environment.

- Support for low authority user: In the previous release, only users with *ALLOBJ special authority were allowed to use the tool. It causes difficulty for organizations with security control to use the Application Runtime Expert tool. Now, administrators can grant specified users the permission to use the Application Runtime Expert tool, using IBM Web Administration for i. Low-authority users with granted permission can build templates using the tool.
- Verify spooled files for CL commands: The Scripts and Commands plugin now supports processing of spooled files for CL commands. Spooled files can be verified according to configuration, and users can also save the spooled files into the report file for further investigation.

IBM Developer Kit for Java (5761- JV1) has been enhanced to support Java 7 both the 32-bit and 64-bit versions. This new support is only available on IBM i 7.1. The following two options have been added:

- 5761-JV1 option 14 Java SE 7 32 bit
- 5761-JV1 option 15 Java SE 7 64 bit

Visit the IBM i Technology Updates wiki on developerWorks to learn more

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

IBM PowerHA SystemMirror for i now supports Metro Mirror, Global Mirror, and FlashCopy on the Storwize V7000 and SAN Volume Controller (SVC) storage systems. The PowerHA SystemMirror for i product has also been updated with a new, easy-to-use GUI, available in IBM i Navigator. The support for these functions is now fully integrated and translated, and the requirement for the 5799-HAS PRPQ has been eliminated.

To learn more, visit the PowerHA for i section of the IBM i Technology updates wiki on developerWorks at

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

IBM i Access Client Solution (5733-XJ1)

A technology preview of IBM i Access Client Solutions (5733-XJ1) is now available. IBM i Access Client Solutions is the newest member of the IBM i Access family of products. It provides a Java based, platform-independent interface that runs on most operating systems that support Java , including Linux , Mac, and Windows™ . IBM i Access Client Solutions consolidates the most commonly used tasks for managing your IBM i into one simplified location.

Features include:

- 5250 display and printer emulation based on IBM's Host-on-Demand
- 5250 Session Manager support modeled after IBM Personal Communications Session Manager
- Multiple language support for concurrent 5250 emulation sessions on the same client
- Data Transfer similar to IBM i Access for Windows Data Transfer plus support for OpenDocument spreadsheet (*.ods), Excel Workbook (*.xlsx), and other file formats
- Virtual Control Panel with a graphical interface to the IBM i control panel
- 5250 emulation for LAN Console
- Consolidation of hardware management interface configurations, including ASMI, IVM, and HMC

IBM i Access Client Solutions uses the same IBM i host servers as the other IBM i Access Family products and requires the same IBM i Access Family license (XW1) in order to use the 5250 emulation and Data Transfer features.

For additional information visit

<http://www.ibm.com/systems/i/software/access/caann.html>

IBM i support for new Power® I/O

New Power I/O features emphasize price/performance and configuration flexibility, especially for SSD, Ethernet, and External Storage configurations.

Visit the IBM i Technology Updates wiki on developerWorks to learn more

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

IBM Rational Application Management Toolset for i

To meet a common need of IBM i system administrators and advanced users, this new offering features simple, per-processor licensing at a price every company can afford.

IBM Rational Application Management Toolset for i provides IBM i system administrators and other advanced users with a lightweight set of tools for the common tasks of working with library file system objects and scripting with Command Language (CL).

Functionally, Application Management Toolset for i is a subset of the venerable Application Development Toolset (ADTS), which is sold as part of WebSphere Development Studio for i 6.1 or as part of Rational Development Studio for i 7.1. Two of the key components of ADTS are Programming Development Manager, commonly known as PDM, and Source Entry Utility, commonly known as SEU.

IBM i License Transfer adds the following:

Additional eligible donor servers:

Group 4:

System i 520 (9405-520 P05, 9406-520 P05)

Group 5:

System i 520 (9405-520 P10, 9406-520 P10/P20)

Note: The IBM i License Transfer offering does not apply in Japan.

Additional eligible receiving servers:

Group 5:

IBM Flex System p260 Compute Node (7895-22X)

IBM Flex System p460 Compute Node (7895-42X)

IBM Web Enablement for i 5722-WE2 - WebSphere Application Server - Express V8.5

WebSphere Application Server - Express V8.5 is a Java EE 6-certified application server that delivers the core foundational requirements for an agile business and application foundation. It is imperative to build an application foundation that provides flexibility for developer needs as well as resiliency and scalable operations needs.

For developers and businesses that need a lightweight, simple to use and yet powerful application server for increased developer productivity and for use as a lightweight production server for application workloads, WebSphere Application Server - Express V8.5 provides a simplified and lightweight runtime for web applications. Extremely fast restart times coupled with its small size and ease of use make the new Liberty profile a great option for building web applications that do not require the full JEE environment of traditional enterprise application server profiles. It is also a great option for production servers where minimizing resource utilization is a primary requirement. Highlights for developers include:

- The new lightweight Liberty profile
- Developer tool options to match project development needs
- Support for Java 7 and OSGi
- Enhanced Migration Toolkit support
- Support for the Web 2.0 and Mobile Toolkit

For administrators and businesses that need better total cost of ownership through management efficiency and performance, the ability to respond quickly to changes in the business, or achieve simplicity and flexibility in evolving to next-generation application server environments, WebSphere Application Server - Express V8.5 delivers new Intelligent Management capabilities that extend the traditional

application server with technologies such as enhanced resiliency, virtualization, and enterprise-level batch processing. Autonomic capabilities are provided that are designed to sense and respond to problems within the application server and autocorrect or route around these problems before users experience an outage. Highlights for administrators include:

- Application Edition Management
- New Intelligent Routing capabilities
- Application server Health Management
- WebSphere Batch enhancements

For businesses that need to build, deploy, and manage secure and portable innovative applications that run on a multitude of mobile, server, and desktop systems, WebSphere Application Server is the flexible and efficient SOA application platform of choice.

Statement of direction

IBM intends to enhance its systems management capabilities for Power Systems hardware as follows:

- Continued integration between the base platform management capabilities in HMC and advanced capabilities in IBM Systems Director
- Enhancement of the HMC to add support for Power Systems blades and mixed rack and blade server environments
- New HMC virtual appliance offering
- New process for transitioning from SDMC to HMC
- Improved usability
- Enhancement of HMC to provide RAID 1 support

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

IBM plans that POWER6® servers running the IBM i release following 7.1 will not support the older, slower HSL/RIO-attached I/O drawers. This planning statement does not impact POWER7 clients or IBM i 7.1 clients. POWER7 servers do not support HSL/RIO I/O drawers and there is no change to IBM i 7.1 HSL/RIO support. IBM i clients who have an HSL/RIO-attached I/O drawer or tower such as the features 5094/5294, 0595/5095, 0588/5088, 5790, or 5791/5794 should plan on moving to newer 12X-attached I/O drawers on their POWER6 server before moving to the release following IBM i 7.1. Note that HSL/RIO I/O drawers or towers are the only enclosure that supports IOP adapters on a POWER6 server. Attachment to some older devices is only provided through an IOP-based adapter. For example, IOP-based communication adapters are required for SDLC/SNA/X.25 device attachment. Likewise, an IOP is required for twinax device attachment without a protocol converter. For additional detail, visit

<http://www.ibm.com/systems/support/i/planning/upgrade>

The IBM Image Construction and Composition Tool is planned to support IBM i. This tooling is planned to allow ISVs and customers to construct customizable virtual images of IBM i virtual servers, including embedded applications. These virtual images could be subsequently deployed (provisioned) and automatically configured in environments managed through Systems Director VMControl.

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:

- Software Announcement [A11-0736](#), dated October 04, 2011
- Software Announcement [A11-0734](#), dated October 12, 2011
- Hardware Announcement [A11-0753](#), dated October 12, 2011
- Hardware Announcement [A11-0754](#), dated October 12, 2011
- Hardware Announcement [A11-0734](#), dated October 12, 2011
- Hardware Announcement [A11-0735](#), dated October 12, 2011
- Hardware Announcement [A11-0848](#), dated October 12, 2011
- Hardware Announcement [A11-0849](#), dated October 12, 2011
- Hardware Announcement [A11-0677](#), dated October 12, 2011
- Hardware Announcement [A11-0737](#), dated October 12, 2011

Program number

Program number	VRM	Program name
5733-NKY	5.2.0	Remove Keys/ePOEs for Transferred Software
5733-WQS	2.1.0	IBM DB2 Web Query for i Standard
5733-WQE	2.1.0	IBM DB2 Web Query for i Express
5733-WQX	2.1.0	IBM DB2 web Query for i

Product identification number

Program PID number	Maintenance 1-year PID number	Maintenance 3-year PID number
5733-WQE	5660-WQE 5661-WQE	5662-WQE 5663-WQE 5664-WQE
5733-WQS	5660-WQS 5661-WQS	5662-WQS 5663-WQS 5664-WQS

Offering Information

Product information is available via the Offering Information website

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

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>

IBM i Partition Mobility requires a supported POWER7 server with both:

- Firmware service pack 730_xx, 740_xx, or later (will be generally available on or shortly before May 25th, 2012)
- IBM Hardware Management Console V7R7.5.0M0, or later

More specific hardware requirements will be made available by May 25, 2012, on the IBM i Technology Updates wiki on developerWorks at

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

Software requirements

- IBM PowerHA SystemMirror for i enhancements:
 - IBM PowerHA SystemMirror for i 7.1 (5770-HAS)
 - SF99707 Technology update PTF Group, Level 3, or later
 - SI45741
- DB2 for i enhancements:
 - IBM i 7.1: 5770-SS1 SF99701 DB2 PTF Group Level 14, or later
 - IBM i 6.1: 5761-SS1 SF99601 DB2 PTF Group Level 25, or later

Visit the DB2 for i Technology Updates wiki on developerWorks to learn more

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

- Live Partition Mobility:
 - IBM i 7.1: SF99707 Technology Refresh PTF Group, Level 4, or later
- IBM Application Runtime Expert for i:
 - IBM i 7.1: SF99368 - 710 IBM HTTP Server for i
 - IBM i 6.1: SF99115 - 610 IBM HTTP Server for i

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.

Planning information

Packaging

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

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

Remove Keys/ePoEs for Transferred Software (5733-NKY)

No-charge features

Remove Keys/ePoEs for Transferred Software (5733-NKY)	Feature Number
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ePoE features

WEB Query for Sys i Base(WQX)	A5QQ
WEB Query for Sys i Ex (WQX)	A5QR
WEB Query for Sys i Std(WQX)	A5QT
WEB Query Usr Rg (WQX)	A5QV
WEB Query WrkBnch Usr Rg(WQX)	A5QW
Runtime Grp Prf Rg (WQX)	A5RA
JDE Adap Reg (WQX)	A5RB
websphExpressv8.5(5722-WE2)	A5RD

IBM Software Temporary License for i (5733-ITL)

No-charge features

IBM Software Temporary License for i (5733-ITL)	Feature Number
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Supply features

Hgh Avail Sol Mng St(5770-HAS)	5988
Hgh Avail Sol Mng En(5770-HAS)	5989

IBM Web Query for System i Standard (5733-WQS)

Charge features

IBM Web Query for System i Standard (5733-WQS) Per processor feature

Priced

Per Processor	A5RJ
Upgr Per Proces Core	A5RW
Upgr Per Process	A5TL
Upgr Per Process Core	A5TR

Zero priced

Upgr Per Proces Core	A5RV
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IBM Web Query for System i Standard (5733-WQS) Per user feature

Priced

Per Additional Authorized User	A5RL
Per Development workbench User	A5RN
Per Runtime Group	A5RQ
Per JDE Adapter	A5RT

Zero Priced

Upgr Per Author User	A5TA
Per Add Auth User	A5RM
Per Dev Workb User	A5RP
Per Rut Grp	A5RR
Per JDE Adp	A5RU
Upgr Per Author Us	A5TM
Upgr Per Dev workb Us	A5TN
Upgr Per Run Gr	A5TP
Upgr Per JDE Adptr	A5TQ
Upgr Per Auth Us	A5TT
Upgr per Dev workb Us	A5TU
Upgr Per Runt Gr	A5TV
Upgr Per JDE Adptr	A5TW

No charge

Per Authorized Users	A5RK
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IBM Web Query for System i Standard SWMA 1Y Registration/Renewal (5660-WQS)

Charge features

IBM Web Query for System i Standard SWMA 1Y Registration/Renewal(5660-WQS) Per processor feature

Priced

Per Processor Core 1Y Reg A2BT
Per Processor Core 1Y Ren A2BU

IBM Web Query for System i Standard SWMA 1Y After License (5661-WQS)

Charge features

IBM Web Query for System i Standard SWMA 1Y After License (5661-WQS) Per processor feature

Priced

Per Processor Core 1Y Aft Lic A0QN

IBM Web Query for System i Standard SWMA 3Y Registration (5662-WQS)

Charge features

IBM Web Query for System i Standard SWMA 3Y Registration (5662-WQS) Per processor feature

Priced

Per Processor Core 3Y Reg A0WK

IBM Web Query for System i Standard SWMA 3Y Renewal (5663-WQS)

Charge features

IBM Web Query for System i Standard SWMA 3Y Renewal (5663-WQS) Per processor feature

Priced

Per Processor Core 3Y Ren A1DT

IBM Web Query for System i Standard SWMA 3Y After License (5664-WQS)

Charge features

IBM Web Query for System i Standard SWMA 3Y After License (5664-WQS) Per processor feature

Priced

Per Processor Core 3Y Aft Lic A2BA

IBM Web Query for System i Express (5733-WQE)

Charge features

IBM Web Query for System i Express (5733-WQE) Per processor feature

Priced

Per Processor A5RE

Zero priced

Upg Per Processor Core A5TE
Upg Per Processor Core A5TH

IBM Web Query for System i Express (5733-WQE) Per user feature

Priced

Per Additional Authorized User A5RG
Per Development workbench User A5RH

Zero priced

Upg Per Authorized User A5TF
Upg Per Authorized User A5TJ
Upg Per Dev Workb User A5TK

No charge

Per Authorized Users A5RF

IBM Web Query for System i Express Registration/Renewal - 1 Year

Charge features

IBM Web Query for System i Express Registration/Renewal - 1 Year (5660-WQE) Per processor feature

Priced

Per ProcCoreRG A2BV
Per Processor Core Rn A2CA

IBM Web Query for System i Express After License - 1 Year

Charge features

IBM Web Query for System i Express After License - 1 Year (5661-WQE) Per processor feature

Priced

Per Processor Core A0QQ

IBM Web Query for System i Express Registration - 3 Year

Charge features

IBM Web Query for System i Express Registration - 3 Year (5662-WQE) Per processor feature

Priced

Per Processor Core A0WM

IBM Web Query for System i Express Renewal - 3 Year

Charge features

IBM Web Query for System i Express Renewal - 3 Year (5663-WQE) Per processor feature

Priced

Per Processor Core A1DU

IBM Web Query for System i Express After License - 3 Year

Charge features

IBM Web Query for System i Express After License - 3 Year (5664-WQE) Per processor feature

Priced

Per Processor Core A2BC

IBM Web Query for System i (5733-WQX)

No-charge features

IBM Web Query for System i (5733-WQX) Feature Number

Special Delivery features

Ship Media only 3470
Ship Docs only 3471
Electronic SW Delivery 3450

Other features

SW Key 1st MT Digit V5 4001
SW Key 2nd MT Digit V5 4002
SW Key 3rd MT Digit V5 4003
SW Key 4th MT Digit V5 4004
SW Key 1st CPU Digit V5 4005
SW Key 2nd CPU Digit V5 4006
SW Key 3rd CPU Digit V5 4007
SW Key 4th CPU Digit V5 4008
SW Key 5th CPU Digit V5 4009
SW Key 6th CPU Digit V5 4010
SW Key 7th CPU Digit V5 4011

Language features

Multilingual Language 2935

Manufacturing features

LPAR System Indicator 3441

ePoE features

Web Query for System i Base 6001
Web Query for System i Exp 6101
Web Query for System i Stnd 6201
Web Query User Reg 6401
Dev Workb User Reg 6501
Runtime Grp Prof Reg 6601
JDE Adapt Reg 6701

Supply features

Web Query for System i Exp 5819
Web Query for System i Stnd 5829

Dev Sys SW Reg	6485
Physical reship	6486

Charge features

IBM Web Query for System i (5733-WQX)	Per Install feature
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Zero priced

One install	A5QF
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IBM Web Enablement for i (5722-WE2)

No-charge features

IBM Web Enablement for i (5722-WE2)	Feature number
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Supply features

WebSphere Express 8.5 DVD	5911
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ePoE features

ePoE Upgrade Registration-V8.5	6101
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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.

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License Information form number

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Limited warranty applies

Yes

Limited warranty

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Volume orders (IVO)

Yes. Contact your IBM representative.

Passport Advantage applies

No

Usage restrictions

Yes

Zend Server Community Edition for IBM i enhancements

Zend Server Community Edition for IBM i

- Starting in April 2010, Zend Server CE is preloaded on IBM i 5.4, IBM 6.1, and IBM 7.1. The first year of Silver support (web based) from Zend is provided for no additional charge. To receive support and product updates, customers must register at the Zend website

<http://www.zend.com>

Zend Server for IBM i

- Zend Server with Gold and Platinum support from Zend is available for purchase from Zend or IBM
<http://www.zend.com/en/products/server/zend-server-ibm-i>
- If ordered from IBM , IBM will pass the order to Zend for fulfillment.
- Support extensions can be purchased from Zend.

Zend Studio for IBM i

- Zend Studio can be downloaded from the Zend website
<http://www.zend.com/en/solutions/i5-solutions/>
- The first year of Silver support (web based) from Zend is provided for no additional charge. To receive support and product updates, customers must register on the Zend website.
- Zend Studio with advanced support options (Zend Developer Solution Standard and Zend Developer Solution Enterprise) from Zend can be purchased from Zend or IBM . If ordered from IBM , IBM will pass the order to Zend for fulfillment.
- Support extensions can be purchased from Zend.

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

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IBM Operational Support Services -- SupportLine

No

System i Software Maintenance applies

Yes

Variable charges apply

No

Educational allowance available

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

Academic use allowance: Yes

Statement of good security practices

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To learn how Electronic Services can work for you, visit

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Remove Keys/ePoEs for Transferred Software (5733-NKY)

No-charge features

Remove Keys/ePoEs for Transferred Software (5733-NKY)	Feature Number
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WEB Query for Sys i Base(WQX)	A5QQ
WEB Query for Sys i Ex (WQX)	A5QR
WEB Query for Sys i Std(WQX)	A5QT
WEB Query Usr Rg (WQX)	A5QV
WEB Query WrkBnch Usr Rg(WQX)	A5QW
Runtime Grp Prf Rg (WQX)	A5RA
JDE Adap Reg (WQX)	A5RB
websphExpressv8.5(5722-WE2)	A5RD

IBM Software Temporary License for i (5733-ITL)

No-charge features

IBM Software Temporary License for i (5733-ITL)	Feature Number
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Hgh Avail Sol Mng St(5770-HAS)	5988
Hgh Avail Sol Mng En(5770-HAS)	5989

IBM Web Query for System i Standard (5733-WQS)

Charge features

IBM Web Query for System i Standard (5733-WQS)	Per processor feature
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Per Processor	A5RJ
Upg Per Proces Core	A5RV
Upg Per Proces Core	A5RW
Upgr Per Process	A5TL
Upgr Per Process Core	A5TR

Zero priced

Upg Per Proces Core	A5RV
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IBM Web Query for System i Standard (5733-WQS)	Per user feature
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Per Additional Authorized User	A5RL
Per Development workbench User	A5RN
Per Runtime Group	A5RQ
Per JDE Adapter	A5RT

Zero priced

Upg Per Author User	A5TA
Per Add Auth Userr	A5RM
Per Dev workb User	A5RP
Per Rut Grp	A5RR
Per JDE Adp	A5RU
Upgr Per Author Us	A5TM
Upgr Per Dev workb Us	A5TN
Upgr Per Run Gr	A5TP
Upgr Per JDE Adptr	A5TQ

Upgr Per Auth Us	A5TT
Upgr per Dev workb Us	A5TU
Upgr Per Runt Gr	A5TV
Upgr Per JDE Adptr	A5TW

No charge

Per Authorized Users	A5RK
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IBM Web Query for System i Standard SWMA 1Y Registration/Renewal (5660-WQS)

Charge features

IBM Web Query for System i Standard SWMA 1Y Registration/Renewal(5660-WQS) Per processor feature

Per Processor Core 1Y Reg	A2BT
Per Processor Core 1Y Ren	A2BU

IBM Web Query for System i Standard SWMA 1Y After License (5661-WQS)

Charge features

IBM Web Query for System i Standard SWMA 1Y After License (5661-WQS) Per processor feature

Per Processor Core 1Y Aft Lic	A0QN
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IBM Web Query for System i Standard SWMA 3Y Registration (5662-WQS)

Charge features

IBM Web Query for System i Standard SWMA 3Y Registration (5662-WQS) Per processor feature

Per Processor Core 3Y Reg	A0WK
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IBM Web Query for System i Standard SWMA 3Y Renewal (5663-WQS)

Charge features

IBM Web Query for System i Standard SWMA 3Y Renewal (5663-WQS) Per processor feature

Per Processor Core 3Y Ren	A1DT
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IBM Web Query for System i Standard SWMA 3Y After License (5664-WQS)

Charge features

IBM Web Query for System i Standard SWMA 3Y After License (5664-WQS)	Per processor feature
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Per Processor Core 3Y Aft Lic	A2BA
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IBM Web Query for System i Express

Charge features

IBM Web Query for System i Express	Per Processor feature
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Per Processor	A5RE
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Zero priced

Upg Per Processor Core	A5TE
Upg Per Processor Core	A5TH

IBM Web Query for System i Express	Per User feature
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Per Additional Authorized User	A5RG
Per Development workbench User	A5RH

Zero priced

Upg Per Authorized User	A5TF
Upg Per Authorized User	A5TJ
Upg Per Dev Workb User	A5TK

No charge

Per Authorized Users	A5RF
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IBM Web Query for System i Express Registration/Renewal 1 Year

Charge features

IBM Web Query for System i Express Registration/Renewal 1 Year	Per processor feature
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Per Proc CoreRg	A2BV
Per Processor Core Rn	A2CA

IBM Web Query for System i Express After License 1 Year

Charge features

IBM Web Query for System i Express After License 1 Year	Per processor feature
Per Processor Core	A0QQ

IBM Web Query for System i Express Registration 3 Year

Charge features

IBM Web Query for System i Express Registration 3 Year	Per processor feature
Per Processor Core	A0WM

IBM Web Query for System i Express Renewal 3 Year

Charge features

IBM Web Query for System i Express Renewal 3 Year	Per processor feature
Per Processor Core	A1DU

IBM Web Query for System i Express After License 3 Year

Charge features

IBM Web Query for System i Express After License 3 Year	Per processor feature
Per Processor Core	A2BC

IBM Web Query for System i (5733-WQX)

Charge features

IBM Web Query for System i (5733-WQX)	Per Install feature
One install	A5QF

IBM Web Query for System i (5733-WQX)

No-charge features

IBM Web Query for System i (5733-WQX)	Feature Number
Ship Media only	3470
Ship Docs only	3471
Electronic SW Delivery	3450

Other features

SW Key 1st MT Digit V5	4001
SW Key 2nd MT Digit V5	4002
SW Key 3rd MT Digit V5	4003
SW Key 4th MT Digit V5	4004
SW Key 1st CPU Digit V5	4005
SW Key 2nd CPU Digit V5	4006
SW Key 3rd CPU Digit V5	4007
SW Key 4th CPU Digit V5	4008
SW Key 5th CPU Digit V5	4009
SW Key 6th CPU Digit V5	4010
SW Key 7th CPU Digit V5	4011
Multilingual Language	2935
LPAR System Indicator	3441
Web Query for System i Base	6001
Web Query for System i Exp	6101
Web Query for System i Stnd	6201
Web Query User Reg	6401
Dev Workb User Reg	6501
Runtime Grp Prof Reg	6601
JDE Adapt Reg	6701
Web Query for System i Exp	5819
Web Query for System i Stnd	5829
Dev Sys SW Reg	6485
Physical reship	6486

IBM Web Enablement for i (5722-WE2)

No-charge features

IBM Web Enablement for i (5722-WE2)	Feature Number
WebSphere Express 8.5 DVD	5911
ePoE Upgrade Registration-V8.5	6101

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Corrections

(Corrected on May 10, 2012)

The Overview was revised to add information about the IBM i for Business Intelligence solution. The Description section was revised to remove the statement that the IBM Image Construction and Composition Tool now supports IBM i. A statement of direction was added, saying that the IBM Image Construction and Composition Tool is planned to support IBM i.