



IBM i5/OS V6R1 delivers the next step for efficient, resilient business processing

Description	2
Product positioning	11
Additional information	12
Offering Information	12
Publications	12
Technical information	12
Ordering information	13
IBM Electronic Services	29
Prices	29
Order now	37

At a glance

i5/OS V6R1 features:

- Virtualization of i5/OS storage
- Encryption of backups and data on disk
- IBM Systems Director management
- Enhanced Java performance
- Support for IBM BladeCenter servers
- Improved performance with IBM System Storage™ devices
- Support for IBM High Availability Solutions Manager (HASM)

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Overview

The i5/OS™ integrated operating environment features a highly scalable and virus-resistant architecture with a proven reputation for exceptional business resiliency. Running applications based on the i5/OS integrated operating environment helps you focus on innovation and delivering new value to your business, not just on managing data center operations. i5/OS V6R1 delivers the next step for efficient, resilient business processing.

i5/OS virtualization support on POWER6™ processor-based systems is enhanced with new features; including:

- i5/OS V6R1 partition that can host storage of another i5/OS V6R1 partition, reducing costs and simplifying creation of i5/OS test and development environments
- Support as a client of the Virtual I/O Server (VIOS), enabling access to virtualized and network storage
- Support for shared processor pools that can decrease software licensing costs by capping the number of processors a group of partitions can use
- Use of a VIOS partition with Integrated Virtualization Manager (IVM) to manage i5/OS partitions and consolidate hardware service at the serving VIOS partition

New storage space snapshots can improve system availability by backing up virtual i5/OS, AIX®, Linux™, and Windows® environments while they are active.

i5/OS V6R1 security enhancements include:

- Encrypted backups to tape or virtual tape device
- Encryption of data stored on disk

These new options can help you meet regulatory requirements while protecting your critical business information.

i5/OS V6R1 includes a new Web-based interface for managing i5/OS, IBM Systems Director Navigator for i5/OS. This new interface, which uses the integrated Web application server in the i5/OS operating system, is ready to run. Navigator for i5/OS includes more than 300 management tasks as well as support for HASM and Performance Data Investigator.

i5/OS V6R1 delivers enhanced performance for Java™ and WebSphere® applications by supporting more transactions per second as compared to i5/OS V5R4 on the same POWER5™, POWER5+™, or POWER6 processor-based system.

In addition, i5/OS V6R1 supports the BladeCenter® JS22 server in the BladeCenter H chassis.

With support for a new fiber channel adapter, i5/OS V6R1 and POWER6 processor-based systems deliver enhanced integration and performance enhancements with IBM Systems Storage solutions.

i5/OS V6R1 supports the new HASM offering to help you reduce the impact of planned and unplanned outages. You can deploy and manage Independent Auxiliary Storage Pools (IASP)-based, high availability cluster solutions including i5/OS Geographic Mirroring and DS8000™ Metro Mirror or Global Mirror.¹

¹ This function is planned to be available in September 2008.

For more information refer to Software Announcement [208-015](#), dated January 29, 2008.

Planned availability date

March 21, 2008

Description

IBM DB2® for i5/OS: DB2 for i5/OS delivers an open, autonomic database with the performance and stability to run your business. V6R1 continues to add support consistent with the SQL standard and the rest of the DB2 family while maintaining the highly integrated, reliable, and secure environment the system is known for.

- Performance:
 - Overall performance is improved across the various client interfaces (JDBC, ODBC, .NET, CLI, and OLE DB) with a particular focus on improvements for applications using JDBC and stored procedures.
 - Ability of SQL Query Engine (SQE) to support user-defined table functions (UDTFs), national language sort sequence (NLSS), and other translate functions in a statement have shown significant performance improvements in applications that take advantage of location-specific sorting capabilities.
 - You can create indexes with derived values via SQL; this can be useful, for example, when you specify an UPPER() or LOWER() on an index and achieve index only access when doing a case-insensitive search that matches the index.
- New SQL support (including CUBE, ROLLUP, and Grouping Sets) includes powerful new tools for applications that require efficient summarization of data, perfect for a warehousing environment.
- Decimal float (IEEE 754R) is a new numeric data type with attributes of both decimal and floating point that deliver extended accuracy and performance.
- Additional capabilities include:
 - NCHAR, NVARCHAR, NCLOB
 - VALUES in FROM
 - INSERT in FROM

- FULL OUTER JOIN
- ALTER FUNCTION
- BX literals
- INSTEAD OF Trigger ... FOR EACH STATEMENT
- Additional datetime and string scalar functions
- Improved encryption capabilities with the AES encryption functions
- Auto-generated timestamp support

To enable simpler porting of applications, SQL syntax that is irrelevant on DB2 for i5/OS (tablespaces, for example) is now ignored.

- Administration and tuning:
 - Additions to the OnDemand Performance Center and Health Center include a view of database-specific application limits as well as how close a given application is to reaching those limits. This can help an application developer or an administrator understand when an application may have an error (number of open handles growing, increases in the number of open cursors, and so on).
 - Improvements to the plan cache and the database monitor greatly reduce the effort it takes to understand the database workload on the system. Starting in V5R4, the "always-on" monitoring capabilities of the plan cache produced index advice that told you the indexes that the query optimizer required (or in some cases created for you) while running the workload. In V6R1, this advice is easier to use and act upon; the index advice condenser takes the various pieces of advice and compacts them into the most beneficial subset.
 - Additional improvements include:
 - DB2 statistics are now readily available using newly created views.
 - Client special registers enable you to track both the application and the user.
 - You can reset index and MQT statistics, easily show object locks, and generate SQL at a folder level.
 - Run SQL Statements, Visual Explain, and DBMON analysis are improved.
- Limits:
 - DB2 for i5/OS limits are increased with longer cursor and statement names and the number of columns that can be used in a GROUP BY. In addition, the number of schemas and dependent logicals is increased along with the number of dependents supported for both a save and an ALTER table.
 - Restoring a logical file before a physical file gives you more flexibility and less chance of error when restoring critical data.
- Application development:
 - ILE precompilers enable source code to be in a stream file, giving you more flexibility with how source code is organized and stored.
 - With the support of variable scoping in the ILE RPG precompiler, RPG applications can more easily integrate SQL with their current native database access. The ILE COBOL precompiler adds support for the NATIONAL type variable for more ease of use with variables and Unicode data. The C precompiler adds host variable support for the new _Decimal32, _Decimal64, and _Decimal128 variable types that can be used for the new DECFLOAT database type.
 - RUNSQLSTM processes scripts that are in IFS files. Run SQL Statements on the GUI can save the scripts to file members, giving users more tools to choose from to do their work.

In addition to the SQL features already listed, improvements in the various standard application interfaces into DB2 for i5/OS include:

- CLI:
 - Wide APIs
 - Row-wise array INSERT
 - Complete ISO timestamp support

- JDBC:
 - JDBC 4.0
 - Returning DEFAULT
 - Return update counts
- .NET:
 - Distributed transaction support
 - Multi-row INSERT
 - Visual Studio integration
 - Exploit ADO.NET 2.0

Program conversion: With i5/OS V6R1, IBM uses machine interface (MI) architecture to significantly improve programs. Both new and previously existing programs can take advantage of the latest system enhancements, including even stronger system integrity, improved performance, and a range of new operating system and processor capabilities. To make these improvements, all MI programs created for previous releases must be converted in order to run on i5/OS V6R1. MI programs include Integrated Language Environment® (ILE) and original program model (OPM) programs.

To convert a program, its creation data (a subset of observability) must be available. MI programs retain creation data by default, so most programs can be converted, going all the way back to programs originally created for System/38™. Even if an option was taken to remove creation data from external access, Licensed Internal Code (LIC) can still access the creation data if the target releases of the program and its constituent modules are V5R1, or later. So, a program may lack sufficient creation data for conversion when the program or at least one of its modules was created for OS/400® V4R5, or an earlier release, and creation data was explicitly removed. Clients and ISVs are responsible for ensuring that programs have creation data for the conversion process.

To help plan for your i5/OS V6R1 implementation, a new command, ANZOBJCVN, is available for i5/OS V5R4 or V5R3 to check your programs. First, download the appropriate ANZOBJCVN PTFs from IBM. ANZOBJCVN identifies programs that do not convert to run on V6R1, if any, and estimates the times required for program conversions. It also includes information about two other types of conversions: integrated file system names and spooled files. For more information, refer to the IBM Redpaper REDP-4293, "i5/OS Program Conversion: Getting ready for i5/OS V6R1," from

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

This document includes PTF numbers and much more information about conversions and ANZOBJCVN.

Journaling enhancements for i5/OS V6R1

- Disaster recovery technologies are enhanced.

To help ensure that all critical objects can be recovered from the journal entries, logical files are journaled if the underlying physical file is journaled. Additionally, you can now start journaling for a library and specify what objects created in the library are to automatically start journaling. Using this new capability, and also specifying the library on the Apply Journaled Changes (APYJRNCHG) command, enables you to recover all the objects within the library.

- Remote journaling is enhanced.

To meet the requirements for timely notification of a transmission failure, you can specify a timeout value when using synchronous remote journaling. To help ensure that data is not being corrupted during transmission, you can specify a validity checking option for most remote journal connections. Additionally, new remote journaling statistics are now available for each active remote journal connection.

- To minimize the potential for losing journal entries when journal caching is used and the system fails, you can specify a cache wait time to limit the amount of time entries can linger in the cache. An exit point is added for the Change Journal (CHGJRN) command to allow for timely saving of detached journal receivers. To allow for easier rebalancing of journaled

objects across different journals, you can end journaling while an object is in use as long as the object does not have uncommitted changes. The end and start journal functions now enable easier object specification when multiple objects are involved.

- Performance of the journal synchronization step is significantly improved to ensure timely IPL recovery and independent auxiliary storage pool (IASP) switchover.
- You can change a data queue so that IBM data queue operations enforce locks from the Allocate Object (ALCOBJ) CL command. This helps ensure that data queues on a target system in a replication environment are not accidentally changed by user applications.

IASPs: Enhancements to IASPs include:

- Target side tracking is fully supported. In a geographic mirroring implementation, if the target side IASP is detached with tracking, a full synchronization is no longer required when the IASP is reattached.
- Job queues are now supported within an IASP. Although submitted jobs will not transfer to the backup node if an IASP is switched over, enabling the job queue to exist in the IASP allows applications to run in an IASP with fewer changes.
- Both a command and an API support quiescing an IASP. This is useful before performing a FlashCopy®, as well as before suspending or detaching the backup copy of the IASP.
- An API restricts access to an IASP, which could be used before saving of the IASP or reclaiming storage.
- You can open a commitment control transaction against SYSBASE in a job with an IASP in the namespace.

In addition to independent disk pool devices, i5/OS cluster resource services supports the ability to switch other devices, such as Ethernet lines and network servers, that are defined in a device cluster resource group (CRG). With this support, you can create highly available devices. Cluster administrative domain now supports single and compound attributes for monitored resources, offers more detailed status messages on both monitored resources and cluster administrative domains, and synchronizes information regarding switchable devices.

Cluster resource services supports the creation of cluster-level messages, in addition to the CRG-level messages already supported, to aid in managing and controlling failover situations within a high availability environment. Users can define a cluster message queue so that they receive and respond to messages that give details on failover events in the cluster.

To diminish the impact on a high availability environment when administrators perform common work management functions such as cancelling jobs, critical cluster jobs are moved into system jobs, where they cannot be cancelled.

IBM Toolbox for Java: IBM Toolbox for Java is a set of Java classes that enable you to use Java programs to access data on your system. Enhancements for i5/OS V6R1 include:

- Set of classes that simplifies JDBC connection pool maintenance by eliminating the need for user applications to implement their own management code
- Class for retrieving messages in a history log
- Class to retrieve and set attributes for an object
- Class that represents the set of information about integrated file system references on an object that can be retrieved through the Retrieve Object References (QPOLROR) API
- Class representing a user-defined file system on the system
- Updated JDBC driver that supports generated keys and DECFLOAT data types

Transform Services for i5/OS: Transform Services for i5/OS include the following:

- i5/OS V6R1 delivers Adobe PDF output support to i5/OS applications:
 - Document format controlled by existing printer file parameters and DDS keywords
 - Text data preserved in standard encodings
 - PDF output written to IFS to make it readily accessible to client applications

- Additional output options to i5/OS include:
 - Write AFP™ output data to stream files in IFS instead of spooled files
 - Output formats supported by the Host Print Transform (HPT):
 - TIFF
 - GIF

Networking: New functions in i5/OS V6R1 networking include the following:

- Additional IPv6 functions make i5/OS IPv6 production ready and meet the current requirements for an IPv6 host. These enhancements include:
 - Virtual Private Networks (VPNs) over IPv6
 - Enablement of key server applications over IPv6, including Telnet, FTP, HTTP, and host servers
 - Ability to configure IPv6 via command line interfaces
- Support for the Open Shortest Path First (OSPF) dynamic routing protocol enables advanced load balancing and high availability options for the i5/OS operating system when operating in larger networks and satisfies a key requirement of many larger System i™ clients.
- Domain Name Server (DNS) is upgraded to DNS BIND 9 level and supports IPv6 networks.
- Enhancements to the e-mail function include:
 - Secure e-mail (S/MIME) support and SSL enablement of Simple Mail Transfer Protocol (SMTP) and Post Office Protocol (POP) servers, which enable secure authentication and secure download of e-mail.
 - New API, QtmsCreateSendEmail(), builds a MIME document, signs and encrypts it as a S/MIME document, and sends it.
 - Mailhub option enables mail to be forwarded to a single server to assist with the setup of outgoing transactions.
- FTP client and server support the Extended Passive (EPSV) and Extended Port (EPRT) FTP commands for both IPv4 and IPv6 networks, enabling FTP to communicate more seamlessly over a Network Address Translator (NAT) when using a secure SSL control connection.
- Security is improved for the TCP/IP service stack used by the LAN console.
- Controller and device descriptions are enhanced with a last activity date that reflects the most recent date that the device or controller was used for a communications session. This is in addition to the existing last used date that reflects the last time the device or controller was varied on.

IFS and Net Server

- Improved performance of open and close
- Additional characters allowed in file names

Enhanced IBM Extended Integrated Server Support for i5/OS: VMware ESX Server 3 running on an iSCSI attached integrated server now supports shared storage. Shared storage enables the support of VMware VMotion, VMware HA, and VMware DRS.

The following 64-bit Linux operating systems are now supported on iSCSI attached integrated servers:

- SUSE Enterprise Linux Server 10 for AMD64 and Intel® EM64T
- Red Hat Enterprise Linux 5 for x86-64

File-level backup and save while active support are added for the following servers:

- SUSE Enterprise Linux Server 10 for AMD64 and Intel EM64T running on an iSCSI attached integrated server

- SUSE Enterprise Linux Server 10 for IBM POWER™ running in a System i logical partition
- Red Hat Enterprise Linux 5 for x86-64 running on an iSCSI attached integrated server
- Red Hat Enterprise Linux 5 for ppc64 running in a System i logical partition

Systems management: Management consoles

i5/OS V6R1 includes IBM Systems Director Navigator for i5/OS, a new Web browser-based management console for managing i5/OS partitions. IBM Systems Director Navigator for i5/OS takes advantage of the i5/OS integrated Web application server and the Integrated Solutions Console technology included with i5/OS V6R1 to make intuitive, comprehensive management of the i5/OS operating system available with the accessibility and ease of a Web browser.

i5/OS V6R1 supports over 300 tasks in this new Web console. Because it is very similar in navigation and format to the System i Navigator client-based console, transition from the client-based System i Navigator to the Web browser-based IBM Systems Director Navigator for i5/OS V6R1 is intuitive and natural. IBM continues to expand and extend the capability of cross-system, heterogeneous management through the IBM Systems Director family. IBM Director V5.20 enables broader functional support for the System i platform and is available with i5/OS V6R1. System i Navigator and Management Central continue to be available with System i Access for Windows.

Instrumentation of i5/OS resources to be managed

Because there are many management solutions for you to choose from, i5/OS management includes instrumentation of resources to industry standard models and interfaces. This enables i5/OS V6R1 to be managed by many industry management solutions. The Common Information Model (CIM) standard allows seamless systems management across platform and domain. CIM, adopted and evolved by the Distributed Management Task Force (DMTF), is a published systems management standard. CIM defines management information between differing management applications, running in many different operating environments. This interchange takes place through the CIM Object Manager (CIMOM), an object management engine that exists between the managed system and the management application.

i5/OS V6R1 includes CIM functionality with the operating system, now included as part of the IBM Universal Manageability Enablement for i5/OS (5722-UME). 5722-UME is installed by default with the i5/OS V6R1 operating system. Secure connections are supported, IPv6 is enabled, and many additional i5/OS resources have been instrumented for management. The breadth and scope of CIM instrumentation continues to be a focus of System i and i5/OS technology.

To more completely leverage the system management capabilities of products in the IBM Systems Director family, the full IBM Director agent services continue to be available on the i5/OS operating system.

Service Location Protocol (SLP) is a framework that enables networking applications to discover the existence, location, and configuration of networked services in enterprise networks. SLP is included in i5/OS V6R1 for automatic discovery of services, such as the CIM server.

Taken in total, the ability to discover and manage i5/OS resources via the CIM and agent services capabilities allows i5/OS V6R1 to be managed by a large number of IBM and industry solutions.

Control Language (CL) enhancements

- New CLOSE command allows a database file to be read more than one time using the Receive File (RCVF) command in the CL program or procedure.
- New INCLUDE command allows additional CL source members to be imbedded during compilation of the CL source code.
- You can specify creation options in the CL source code instead of on the CRTCLPGM, CRTCLMOD, or CRTBNDCL command.
- You can specify CMD creation options in the command definition source code instead of on the CRTCMD command.
- Single copy of a *CMD supports multiple national languages.

i5/OS performance tools: V6R1 includes enhancements to performance data collection provided by the i5/OS operating system, and enhancements for the visualization of performance

data.

With i5/OS V6R1, you can collect Job Watcher and Disk Watcher performance data as part of the operating system.

Investigating performance data is a major new feature of the IBM Systems Director Navigator for i5/OS. You can view performance data from Collection Services, Job Watcher, and Disk Watcher collections. The Collection Services analysis feature is a no-charge feature of V6R1. Also part of IBM Systems Director Navigator for i5/OS is the ability to manage performance data collections. Disk Watcher and Job Watcher (part of the Manager feature of Performance Tools) graphical capabilities are optional features of Performance Tools 5761-PT1.

i5/OS support for BladeCenter servers: i5/OS V6R1 is supported on the BladeCenter JS22 server in the BladeCenter H chassis.

With BladeCenter and POWER6 processor-based blades, you can:

- Realize innovation with proven sixth-generation POWER technology for enhanced performance, efficiency, and reliability
- Cut costs and consolidate workloads with leadership virtualization as a built-in feature
- Go green with better energy management by using EnergyScale technology
- Manage growth, complexity, and risk with the flexibility of BladeCenter technology

With blade servers you can consolidate your System i and Intel processor-based servers into a single chassis, leveraging the management, space, and power savings provided by BladeCenter solutions.

The BladeCenter JS22 blade is a four core, 4.0 GHz POWER6 processor-based blade. The blade supports from 2 to 32 GB of memory, has two 1 Gb Ethernet ports, supports two expansion cards, and has one disk drive. The JS22 blade supports the following operating systems:

- i5/OS V6R1
- AIX 5.3, or later
- SUSE Linux Enterprise Server 10 for POWER, or later
- Red Hat Enterprise Linux for POWER V4.6, or later

For more information, visit

<http://www-03.ibm.com/systems/bladecenter/js22e/index.html>

The BladeCenter H chassis has 14 blade bays for up to 14 POWER6 and x86 blade servers. For more information, visit

<http://www-03.ibm.com/systems/bladecenter/bladeh/index.html>

i5/OS on the JS22 server uses Advanced Power Virtualization Standard Edition, which includes POWER Hypervisor, Micro-Partitioning™, Virtual I/O Server (VIOS) with Integrated Virtualization Manager, and Virtual LAN features. The i5/OS operating system uses the VIOS partition for access to BladeCenter resources and attached storage devices. The VIOS partition owns the fiber, Ethernet, and SAS adapters on the blade and virtualizes the resources to the i5/OS partition.

- The QLogic Ethernet and 4 GB Fiber Channel Expansion Card (#8252) daughter card on the JS22 blade, owned by the VIOS partition, connects to the fiber switch in the BladeCenter H chassis. For i5/OS storage, the IBM System Storage DS4700, DS4800, and DS8000 products connected via the VIOS partition are supported.
- The two 1 GB Ethernet ports on the JS22 are connected to the Ethernet switch in the BladeCenter H chassis.
- The SAS Expansion Card for BladeCenter (#8250) on the JS22 blade, owned by the VIOS partition, connects to the SAS switch in the BladeCenter H chassis. For backup of i5/OS data to tape, the external SAS tape drive TS2230 H3S with the Virtual Media Library capability in the VIOS partition is supported.

The 73 GB or 146 GB disk drive on the JS22 blade is used for the installation of VIOS.

For use with the i5/OS operating system, the blade can be deployed with one VIOS partition and one i5/OS partition, with one VIOS partition and multiple i5/OS partitions, or with one VIOS partition and a combination of i5/OS, AIX, and Linux partitions. Integrated Virtualization Manager (IVM), a function of VIOS, is used to set up and manage the partitions. With the JS22 implementation, i5/OS does not provide storage virtualization for other partitions on the blade or to iSCSI attached System x™ or BladeCenter servers.

For backup of the i5/OS V6R1 partition, the Virtual Media Library capability in the VIOS partition is used. The Virtual Media images are file-backed devices in the VIOS partition and are accessible to i5/OS as standard read/write optical devices. The files are then saved by VIOS to an external SAS tape drive TS2230 H3S via the SAS adapter in the VIOS partition. Another backup option is downloading the Virtual Media image files to a different server with an attached tape drive through the browser-based IVM interface. The files are then saved locally to the tape drive attached to that server.

i5/OS V6R1 (5761-SS1) includes per processor and per user entitlements. When you select i5/OS on a BladeCenter JS22 blade, you must purchase at least one processor entitlement and 10 user entitlements. You may purchase additional i5/OS processor entitlements up to a maximum of four, and additional i5/OS user entitlements in blocks of 10 users. You may also purchase unlimited user, external user, and unlimited collaboration user options.

Shared dedicated processors and multiple shared processor pools: Shared dedicated processors, a new configuration option, enable a system administrator to donate some of the unused processing capacity of a dedicated processor LPAR to a shared processor pool. When the workload in a dedicated processor LPAR drops below a threshold, some of the processors can temporarily serve workloads running in LPARs that are served by a shared processor pool. This new capability can increase overall system utilization and efficiency.

Multiple shared processor pools, a POWER6 virtualization feature, enable a system administrator to group micro-partitions into separate pools and set limits on the amount of processor capacity each pool can consume. This gives a system administrator more granular management of how CPU capacity is consumed by uncapped micro-partitions. Using multiple shared processor pools, a system administrator can implement tiered quality-of-service policies for different micro-partitions on a system.

Integrated Web Application Server: i5/OS V6R1 is the first release to include an integrated Web application server, an easy-to-configure and use Web container that does not require the installation of any other components. In concert with the 32-bit IBM Technology for Java JVM (used by default), this server gives you a consumable and efficient on-ramp to the Web. This support is also available via a PTF SF 99114 on i5/OS V5R4.

- OSGI-based Web servlet container
- Replacement for IBM-supported ASF-Tomcat, previously shipped with HTTP Server for i5/OS
- Support for JDK 1.5 run by default on IBM technology for Java (32-bit)
- Support for DB2 for i5 using Toolkit for Java or Java native implementations
- GUI to manage all aspects of the integrated Web application server:
 - Wizards to create a new server instance and to deploy applications to the instance of choice
 - Interface to manage applications, server properties, and database connection information
 - Ability to view all servers on the System i platform; start, stop, or delete servers in one easy-to-use display

IXS/IXA support: Functional enhancements for V6R1 include:

- Support for Storage Space Snapshots enables a concurrent save of Windows data without requiring the system to be shut down or applications ended.
- VMware ESX Server 3 running on an iSCSI attached integrated server is enhanced to support shared storage. Shared storage enables the support of VMware VMotion, VMware HA, and VMware DRS.
- Support for iSCSI direct connect eliminates the requirement for a switch between the System i iSCSI target HBA and the System x iSCSI initiator HBA.

- File-level backup for Linux iSCSI attached or partitions) is supported.
- Integrated server configuration objects are replicated using Cluster Administrative Domain.
- Enhanced user administration function specifies that user profiles are not disabled on the Windows operating system when they are disabled on the i5/OS operating system.
- Integrated server functions are supported within IBM Systems Director Navigator for i5/OS (Web console).
- Initiator CHAP is supported for iSCSI attached integrated servers,

Intrusion Detection Support (IDS): IDS enhancements include:

- GUI interface to the IDS policy file that works on both V6R1 and V5R4 IDS policy files (IDS V5R4 required editing the policy file from a green screen)
- API (QtoqIDSCControl, QTOQIDSC) to activate, deactivate, and retrieve status of IDS
- Hook into the RMVTCPTBL command to deactivate IDS from a command line
- Separation from the TCP/IP quality-of-service server (IDS V5R4 was activated by starting the *QOS server)
- Support against attacks such as smurf, fraggle, TCP ACK storm, ping-of-death, address poisoning (ARP poisoning (IPv4) and Neighbor Discovery poisoning (IPv6))
- Ignoring ICMP redirect messages
- Support for extrusions
- Support for service stack (alternate/short) as well as continued support for production stack
- Support for IPv6
- GUI for viewing intrusions logged to the audit journal
- Notification program that can send e-mail to as many as three addresses and messages to a predefined message queue
- Prevention technique called Variable Dynamic Throttling, a way of influencing and modifying network behavior

Cryptographic enhancements:

- Cryptographic key management is enhanced.
 - Users can now manage master keys and keystore files containing user keys through new functions in System i Navigator and in Systems Director Navigator for i5/OS.
 - Users can also manage master keys and keystore files containing user keys via new CL commands.
 - Support for exit programs on the master key function is now available to further customize master key management.
 - Backup and recovery for master keys is now available through the save system operation.
- Support for cryptographic hardware through JCE is now available. IBMJCECCA150S JCE provider improves the performance of RSA operations by routing the requests to the cryptographic coprocessor.
- New modes of operation (CCM and CTR) for AES encryption are supported.

IBM System Storage DS4700 AND DS4800 ON POWER6 systems: i5/OS V6R1, through the enhanced capability of VIOS, supports the attachment of the IBM System Storage DS4700 and DS4800 products to POWER6 systems.

The IBM System Storage DS4700/DS4800 products enable users to take advantage of all the benefits of SAN storage at a lower price than the DS6800, DS8100, or DS8300 enterprise-level products. For more information on the DS4700/DS4800 products, visit

<http://www.ibm.com/systems/storage/disk>

An i5/OS partition is supported as a client of the VIOS, enabling access to DS4700/DS4800 storage products. This attachment through VIOS is fully transparent to the i5/OS operating system and supports all types of objects, including databases.

The DS4700/DS4800 is connected to VIOS using Fibre Channel adapters.

For best performance and reliability, the DS4700/DS4800 Fibre Channel disk drive features are strongly recommended over the SATA disk drive features. Users should consider SATA drive configurations when the products are being configured as near-line or archive storage appliances and price is a deciding factor.

Accessibility by people with disabilities

You can request a U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance at

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

Product positioning

i5/OS V6R1 is the newest version of the IBM operating system that is designed to deliver efficient, resilient business processing. Enhancements in i5/OS V6R1 include:

- Support for your regulatory requirements with encryption of backups and data on disk
- Introduction of a high availability solution from IBM, High Availability Solutions Manager for i5/OS
- Improved performance for Java and WebSphere applications on i5/OS
- Virtualization enhancements that support virtual i5/OS partitions, reducing costs to create test and development environments
- Enhanced performance for i5/OS environments that connect to IBM System Storage solutions
- Support for IBM Systems Director, delivering a comprehensive tool to manage IBM systems
- Support for i5/OS on a blade, enabling you to consolidate i5/OS and Intel servers with BladeCenter technology

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).

BP Attachment for Announcement Letter 208-014

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=208-014>

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Additional information

The following products are also shipped with the i5/OS™ operating system:

- IBM Business Solutions
- IBM HTTP Server for i5/OS
- IBM Toolbox for Java™
- IBM Developer Kit for Java
- IBM Extended Integrated Server Support for i5/OS
- IBM Network Authentication Enablement for i5/OS
- IBM Portable Utilities for i5/OS
- IBM TCP/IP Connectivity Utilities for i5/OS
- IBM Transform Services for i5/OS
- IBM Universal Manageability Enablement for i5/OS
- IBM System i™ Access for Windows®
- IBM System i Access for Wireless

Offering Information

Product information is available via the Offering Information Web site

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

Publications

No publications are shipped with this programs.

With the IBM Systems Information Center, users can use a single information center to access product documentation for IBM Systems hardware, operating systems, and server software. Through a consistent framework, users can efficiently find information and personalize their access to that information. The IBM Systems Information Center is at

<http://publib.boulder.ibm.com/infocenter/systems>

Technical information

Specified operating environment

Hardware requirements: i5/OS V6R1 is supported on the following System i models: 515, 520, 525, 550, 570, 595, 800, 810, 825, 870, 890, and MMA.

It is also supported on BladeCenter® model 7998-61X.

Planning information

Planning statements provide insight into IBM's current plans, directions, and intent, and are subject to change or withdrawal without notice. Any reliance on these planning statements is at the relying party's sole risk and will not create liability or obligation for IBM.

IBM plans for i5/OS V6R1 to be the final release to support IBM System i Access for Wireless (5722-XP1).

IBM plans for i5/OS V6R1 to be the final release to support the Operations Console local console

directly attached configuration. This connectivity attaches the console to the system using a serial port on the PC to an asynchronous communications adapter on the system. The Operations Console is included in the IBM System i Access for Windows product, 5761-XE1. After the V6R1 release, Operations Console will only support the local console on a network (LAN) configuration. The local console on a network configuration, commonly referred to as LAN console, connects the PC and system using a network adapter on the PC and system.

i5/OS support of selected System i models

IBM plans for i5/OS V6R1 to be the final release supported on iSeries™ models 800, 810, 825, 870, and 890. The release following i5/OS V6R1 is planned to be supported on System i POWER5™ models 515, 520, 525, 550, 570, and 595, and on POWER6™ model 570.

Direct customer support: For technical support or assistance, contact your IBM representative or visit

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

Packaging: i5/OS is available on DVD.

Security, auditability, and control

i5/OS uses the security and auditability features of the i5/OS.

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 unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

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	Part number or PID number	Charge metric
i5/OS	5761-SS1	Per Processor and Per User
Additional i5/OS Processors	5761-SSA	Per Processor
i5/OS Application Server	5761-SSB	Per Processor
i5/OS Users	5761-SSC	Per User

Processor

A processor (commonly called a CPU or core) is a functional unit within a computing device that interprets and executes instructions. A processor consists of at least an instruction control unit and one or more arithmetic or logic unit. With multicore technology, each core is considered a processor. With full capacity licensing, a proof of entitlement (PoE) must be acquired for all activated processors available for use on the server.

Registered user

A registered user is one and only one named individual within or outside your enterprise which is recorded in a registry (for example, table, directory, file) maintained by you. A PoE must be

obtained for each individual user accessing the program in any manner. A program licensed under an registered user PoE may be installed on a single computer or server, and accessed by multiple users, provided that a PoE has been obtained for each individual user accessing the program either directly or indirectly (via a multiplexing program, device, or application server) through any means on behalf of the user.

i5/OS (5761-SS1) is priced and licensed per processor and per server.

When you select i5/OS on a POWER6 processor-based blade (7998-61X), you must purchase at least one processor entitlement and 10 user entitlements. You can purchase additional i5/OS processor entitlements to a maximum of four. You can purchase additional i5/OS users in blocks of 10 users. You can also purchase unlimited user, i5/OS external user, and unlimited collaboration user entitlements for use on a POWER6 processor-based blade.

i5/OS orders for V5R4: If you place an initial or upgrade order for i5/OS, the following software products are defaulted onto your configuration when ordered for hardware models 9406-570, 9406-MMA, and 9406-595.

- 5722-DR1 IBM Director for i5/OS, V5.20 Supply Feature 5809
- 5722-WE2 IBM Web Enablement for i5/OS, V5.3 WebSphere® Express 6.0, Supply Feature 5902

These products will no longer be defaulted onto the i5/OS configuration when ordered for hardware models 9406-520, 9406-525, 9406-550, 9407-515. If you need these software products, you must explicitly order them in the initial or upgrade order.

5722-DR1 and 5722-WE2 will continue to be included with the 9405-520 Express Editions.

i5/OS order for V6R1: If you place an initial or upgrade order for i5/OS, the following software product is defaulted onto your configuration when ordered for hardware models 9406-570, 9406-MMA, and 9406-595.

- 5722-DR1 IBM Director for i5/OS, V5.20 Supply Feature 5809
- 5722-WE2 IBM Web Enablement for i5/OS, V5.3 WebSphere Express 6.1 DVD, Supply Feature 5904

The following products will no longer be defaulted onto the i5/OS configuration when ordering an i5/OS upgrade from V5 to V6R1, for hardware models 9406-520, 9406-525, 9406-550, 9407-515. If you need these software products, you must explicitly order them in the upgrade software order.

- 5722-DR1 IBM Director for i5/OS, V5.20 Supply Feature 5809
- 5722-WE2 IBM Web Enablement for i5/OS, V5.3 WebSphere Express 6.1 DVD, Supply Feature 5904

5722-DR1 and 5722-WE2 will continue to be included with the 9405-520 Express Editions.

IBM i5/OS (5761-SS1)

Charge features: Initial order

IBM i5/OS (5761-SS1)	Per Processor
Per Proc w/o SWMA -- 515	1309
Per Proc Chrg/HW -- 515	1310
Per Proc Reg Addl Lic -- 515	1311
Per Proc w/o SWMA -- 520	1312
Per Proc Chrg/HW -- 520	1314
Per Proc Reg Addl Lic -- 520	1315
Per Proc w/o SWMA -- 525	1316
Per Proc Chrg/HW -- 525	1317
Per Proc Reg Addl Lic -- 525	1318
Per Proc w/o SWMA -- 550	1319
Per Proc Chrg/HW -- 550	1320
Per Proc Reg Addl Lic -- 550	1321
Per Proc w/o SWMA -- 570	1322
Per Proc Chrg/HW -- 570	1323

Per Proc Reg Addl Lic -- 570	1324
Per Proc w/o SWMA -- 595	1325
Per Proc Chrg/HW -- 595	1326
Per Proc Reg Addl Lic -- 595	1327
Per Proc w/o SWMA -- MMA	1328
Per Proc Chrg/HW -- MMA	1329
Per Proc Reg Addl Lic -- MMA	1330
Per Proc PWR6 Blade -- 61X	1347
OTC Keyed Stamped Media	1348
OTC Non-Keyed Stamped Media	1349
Per Proc Addl Lic -- 825	1299
Per Proc Addl Lic -- 870	1301
Per Proc Addl Lic -- 890	1302
i5/OS (5761-SS1)	Per Server
Media Charge	
Keyed Product Media Charge	1348
Non-keyed Product Media Charge	1349
IBM Media and Storage	Per Processor
Extensions	
Per Proc OTC M&S Ext	1303
Per Proc Chrg/HW M&S Ext	1304
Per Proc w/SW Pkg M&S Ext	1305
DB2(R) Multisystem	Per Server
Per Serv DB2 Multisystem	0706
DB2 Symmetric Multiprocessing OTC	
P05 DB2 Symm Multiproc	1243
P10 DB2 Symm Multiprod	1244
P20 DB2 Symm Multiproc	1246
P30 DB2 Symm Multiproc	1249
P40 DB2 Symm Multiproc	1253
P50 DB2 Symm Multiproc	1258
P60 DB2 Symm Multiproc	1264
P05 DB2 Symm Mult Reg Chrg/HW	1271
P10 DB2 Symm Mult Reg Chrg/HW	1272
P20 DB2 Symm Mult Reg Chrg/HW	1273
P30 DB2 Symm Mult Reg Chrg/HW	1274
P40 DB2 Symm Mult Reg Chrg/HW	1275
P50 DB2 Symm Mult Reg Chrg/HW	1276
P60 DB2 Symm Mult Reg Chrg/HW	1277
P05 DB2 Symm Mul Reg w/SW Pkg	1278
P10 DB2 Symm Mul Reg w/SW Pkg	1279
P20 DB2 Symm Mul Reg w/SW Pkg	1280
P30 DB2 Symm Mul Reg w/SW Pkg	1281
P40 DB2 Symm Mul Reg w/SW Pkg	1282
P50 DB2 Symm Mul Reg w/SW Pkg	1283
P60 DB2 Symm Mul Reg w/SW Pkg	1284
IBM PSF for i5/OS 1-55 IPM	Per Server
Printer Support	
Per Server PSF 1-55 IPM	0751
IBM PSF for i5/OS 1-100 IPM	Per Server
Printer Support	
Per Server PSF 1-100 IPM	0754
IBM PSF for i5/OS AnySpeed	Per Server
Printer Support	
Per Server PSF AnySpeed	0814
HA Switchable Resource	OTC
P05 HA Switchable Resource	0709
P10 HA Switchable Resource	0710

P20 HA Switchable Resource	0711
P30 HA Switchable Resource	0712
P40 HA Switchable Resource	0713
P50 HA Switchable Resource	0714
P60 HA Switchable Resource	0715
P05 HA Switchable Res Chrg/HW	0737
P10 HA Switchable Res Chrg/HW	0738
P20 HA Switchable Res Chrg/HW	0739
P30 HA Switchable Res Chrg/HW	0740
P40 HA Switchable Res Chrg/HW	0741
P50 HA Switchable Res Chrg/HW	0742
P60 HA Switchable Res Chrg/HW	0743

HA Journal Perf OTC

P05 HA Journal Perf	0671
P10 HA Journal Perf	0672
P20 HA Journal Perf	0673
P30 HA Journal Perf	0674
P40 HA Journal Perf	0675
P50 HA Journal Perf	0676
P60 HA Journal Perf	0677

5761-SS1 OTC

P05 OTC SW Accommodation	0648
P10 OTC SW Accommodation	0649
P20 OTC SW Accommodation	0650
P30 OTC SW Accommodation	0651
P40 OTC SW Accommodation	0652

5761-SS1 OTC

P05 OptiConnect	0620
P10 OptiConnect	0621
P20 OptiConnect	0622
P30 OptiConnect	0623
P40 OptiConnect	0624
P50 OptiConnect	0625
P60 OptiConnect	0626

5761-SS1 OTC

P05 Encrypted Backup Enable	0758
P10 Encrypted Backup Enable	0759
P20 Encrypted Backup Enable	0760
P30 Encrypted Backup Enable	0761
P40 Encrypted Backup Enable	0762
P50 Encrypted Backup Enable	0763
P60 Encrypted Backup Enable	0764

5761-SS1 OTC

P05 Encrypted ASP Enablement	0786
P10 Encrypted ASP Enablement	0787
P20 Encrypted ASP Enablement	0788
P30 Encrypted ASP Enablement	0789
P40 Encrypted ASP Enablement	0790
P50 Encrypted ASP Enablement	0791
P60 Encrypted ASP Enablement	0792

Upgrade order

Upgrades To: 5761-SS1 Per Processor

Upg Per Proc from 8xx -- MMA	1331
Upg Per Proc from 550 -- MMA	1332
Upg Per Proc from 570 -- MMA	1333
Upg Per Proc from 8xx -- 550	1363
Upg Per Proc from 8xx -- 570	1364
Upg Per Proc from 8xx -- 595	1365

From: 5761-SS1 To: 5761-SS1 Per Server

Upg PSF 1-55 to PSF 1-100 0755
Upg PSF 1-55 to PSF Anyspeed 0815
Upg PSF 1-100 to PSF Anyspeed 0817

From: 5769-SS1 To: 5761-SS1 OTC

P05 Upg Opti Connect 5769-SS1 0612
P10 Upg Opti Connect 5769-SS1 0613
P20 Upg Opti Connect 5769-SS1 0614
P30 Upg Opti Connect 5769-SS1 0615
P40 Upg Opti Connect 5769-SS1 0616
P50 Upg Opti Connect 5769-SS1 0617
P60 Upg Opti Connect 5769-SS1 0618

From: 5769-SS1 To: 5761-SS1 OTC

P05 Upg DB2 Symm 5769-SS1 1285
P10 Upg DB2 Symm 5769-SS1 1286
P20 Upg DB2 Symm 5769-SS1 1287
P30 Upg DB2 Symm 5769-SS1 1288
P40 Upg DB2 Symm 5769-SS1 1289
P50 Upg DB2 Symm 5769-SS1 1290
P60 Upg DB2 Symm 5769-SS1 1291

From: 5769-SS1 To: 5761-SS1 Per Server

Per Serv DB2 Multi 5769-SS1 0707

From: 5769-SS1 To: 5761-SS1 Per Server

Upg Per Serv M&S (5769-SS1) 1307
Per Serv PSF 1-55 (5769-SS1) 0753
Per Serv PSF 1-100 (5769-SS1) 0756
Per Serv AnySpeed (5769-SS1) 0818

From: 5722-SS1 To: 5761-SS1 OTC

P05 Upg Opti Connect 5722-SS1 0605
P10 Upg Opti Connect 5722-SS1 0606
P20 Upg Opti Connect 5722-SS1 0607
P30 Upg Opti Connect 5722-SS1 0608
P40 Upg Opti Connect 5722-SS1 0609
P50 Upg Opti Connect 5722-SS1 0610
P60 Upg Opti Connect 5722-SS1 0611

From: 5722-SS1 To: 5761-SS1 OTC

P05 Upg DB2 Symm 5722-SS1 1292
P10 Upg DB2 Symm 5722-SS1 1293
P20 Upg DB2 Symm 5722-SS1 1294
P30 Upg DB2 Symm 5722-SS1 1295
P40 Upg DB2 Symm 5722-SS1 1296
P50 Upg DB2 Symm 5722-SS1 1297
P60 Upg DB2 Symm 5722-SS1 1298

From: 5722-SS1 To: 5761-SS1 OTC

P05 Upg HA Switch 5722-SS1 0744
P10 Upg HA Switch 5722-SS1 0745
P20 Upg HA Switch 5722-SS1 0746
P30 Upg HA Switch 5722-SS1 0747
P40 Upg HA Switch 5722-SS1 0748
P50 Upg HA Switch 5722-SS1 0749
P60 Upg HA Switch 5722-SS1 0750

From: 5722-SS1 To: 5761-SS1 OTC

P05 Upg HA Journal 5722-SS1 0699
P10 Upg HA Journal 5722-SS1 0700
P20 Upg HA Journal 5722-SS1 0701
P30 Upg HA Journal 5722-SS1 0702
P40 Upg HA Journal 5722-SS1 0703
P50 Upg HA Journal 5722-SS1 0704

P60 Upg HA Journal 5722-SS1 0705
 From: 5722-SS1 To: 5761-SS1 Per Server
 Per Serv DB2 Multi 5722-SS1 0708
 From: 5722-SS1 To: 5761-SS1 Per Server
 Upg Per Serv M&S (5722-SS1) 1306
 Per Serv PSF 1-55 (5722-SS1) 0752
 Per Serv PSF 1-100 (5722-SS1) 0757
 Per Serv AnySpeed (5722-SS1) 0816
 From: 5799-BJC To: 5761-SS1 OTC
 P05 Upg HA Journal 5799-BJC 0663
 P10 Upg HA Journal 5799-BJC 0664
 P20 Upg HA Journal 5799-BJC 0665
 P30 Upg HA Journal 5799-BJC 0666
 P40 Upg HA Journal 5799-BJC 0667
 P50 Upg HA Journal 5799-BJC 0668
 P60 Upg HA Journal 5799-BJC 0669

Group-to-group upgrades

Upgrade Description	OTC
P05-P10 OTC SW Accom	0653
P05-P20 OTC SW Accom	0654
P05-P30 OTC SW Accom	0655
P05-P40 OTC SW Accom	0656
P10-P20 OTC SW Accom	0657
P10-P30 OTC SW Accom	0658
P10-P40 OTC SW Accom	0659
P20-P30 OTC SW Accom	0660
P20-P40 OTC SW Accom	0661
P30-P40 OTC SW Accom	0662
Upgrade Description	OTC
P05-P10 Opti Connect	0627
P05-P20 Opti Connect	0628
P05-P30 Opti Connect	0629
P05-P40 Opti Connect	0630
P05-P50 Opti Connect	0631
P05-P60 Opti Connect	0632
P10-P20 Opti Connect	0633
P10-P30 Opti Connect	0634
P10-P40 Opti Connect	0635
P10-P50 Opti Connect	0636
P10-P60 Opti Connect	0637
P20-P30 Opti Connect	0638
P20-P40 Opti Connect	0639
P20-P50 Opti Connect	0640
P20-P60 Opti Connect	0641
P30-P40 Opti Connect	0642
P30-P50 Opti Connect	0643
P30-P60 Opti Connect	0644
P40-P50 Opti Connect	0645
P40-P60 Opti Connect	0646
P50-P60 Opti Connect	0647
Upgrade Description	OTC
P05-P10 OTC DB2 Symm Multi	1245
P05-P20 OTC DB2 Symm Multi	1247
P05-P30 OTC DB2 Symm Multi	1250
P05-P40 OTC DB2 Symm Multi	1254
P05-P50 OTC DB2 Symm Multi	1259
P05-P60 OTC DB2 Symm Multi	1265
P10-P20 OTC DB2 Symm Multi	1248
P10-P30 OTC DB2 Symm Multi	1251

P10-P40	OTC	DB2	Symm	Mul ti	1255
P10-P50	OTC	DB2	Symm	Mul ti	1260
P10-P60	OTC	DB2	Symm	Mul ti	1266
P20-P30	OTC	DB2	Symm	Mul ti	1252
P20-P40	OTC	DB2	Symm	Mul ti	1256
P20-P50	OTC	DB2	Symm	Mul ti	1261
P20-P60	OTC	DB2	Symm	Mul ti	1267
P30-P40	OTC	DB2	Symm	Mul ti	1257
P30-P50	OTC	DB2	Symm	Mul ti	1262
P30-P60	OTC	DB2	Symm	Mul ti	1268
P40-P50	OTC	DB2	Symm	Mul ti	1263
P40-P60	OTC	DB2	Symm	Mul ti	1269
P50-P60	OTC	DB2	Symm	Mul ti	1270

Upgrade Descri pt i on OTC

P05-P10	OTC	HA	Swi tchabl e	0716
P05-P20	OTC	HA	Swi tchabl e	0717
P05-P30	OTC	HA	Swi tchabl e	0718
P05-P40	OTC	HA	Swi tchabl e	0719
P05-P50	OTC	HA	Swi tchabl e	0720
P05-P60	OTC	HA	Swi tchabl e	0721
P10-P20	OTC	HA	Swi tchabl e	0722
P10-P30	OTC	HA	Swi tchabl e	0723
P10-P40	OTC	HA	Swi tchabl e	0724
P10-P50	OTC	HA	Swi tchabl e	0725
P10-P60	OTC	HA	Swi tchabl e	0726
P20-P30	OTC	HA	Swi tchabl e	0727
P20-P40	OTC	HA	Swi tchabl e	0728
P20-P50	OTC	HA	Swi tchabl e	0729
P20-P60	OTC	HA	Swi tchabl e	0730
P30-P40	OTC	HA	Swi tchabl e	0731
P30-P50	OTC	HA	Swi tchabl e	0732
P30-P60	OTC	HA	Swi tchabl e	0733
P40-P50	OTC	HA	Swi tchabl e	0734
P40-P60	OTC	HA	Swi tchabl e	0735
P50-P60	OTC	HA	Swi tchabl e	0736

Upgrade Descri pt i on OTC

P05-P10	OTC	HA	Journ	Perf	0678
P05-P20	OTC	HA	Journ	Perf	0679
P05-P30	OTC	HA	Journ	Perf	0680
P05-P40	OTC	HA	Journ	Perf	0681
P05-P50	OTC	HA	Journ	Perf	0682
P05-P60	OTC	HA	Journ	Perf	0683
P10-P20	OTC	HA	Journ	Perf	0684
P10-P30	OTC	HA	Journ	Perf	0685
P10-P40	OTC	HA	Journ	Perf	0686
P10-P50	OTC	HA	Journ	Perf	0687
P10-P60	OTC	HA	Journ	Perf	0688
P20-P30	OTC	HA	Journ	Perf	0689
P20-P40	OTC	HA	Journ	Perf	0690
P20-P50	OTC	HA	Journ	Perf	0691
P20-P60	OTC	HA	Journ	Perf	0692
P30-P40	OTC	HA	Journ	Perf	0693
P30-P50	OTC	HA	Journ	Perf	0694
P30-P60	OTC	HA	Journ	Perf	0695
P40-P50	OTC	HA	Journ	Perf	0696
P40-P60	OTC	HA	Journ	Perf	0697
P50-P60	OTC	HA	Journ	Perf	0698

Upgrade Descri pt i on OTC

P05-P10	Encryp	Bkup	Enabl emen	0765
P05-P20	Encryp	Bkup	Enabl emen	0766
P05-P30	Encryp	Bkup	Enabl emen	0767
P05-P40	Encryp	Bkup	Enabl emen	0768
P05-P50	Encryp	Bkup	Enabl emen	0769
P05-P60	Encryp	Bkup	Enabl emen	0770
P10-P20	Encryp	Bkup	Enabl emen	0771
P10-P30	Encryp	Bkup	Enabl emen	0772
P10-P40	Encryp	Bkup	Enabl emen	0773
P10-P50	Encryp	Bkup	Enabl emen	0774

P10-P60 Encryp Bkup Enabl emen 0775
P20-P30 Encryp Bkup Enabl emen 0776
P20-P40 Encryp Bkup Enabl emen 0777
P20-P50 Encryp Bkup Enabl emen 0778
P20-P60 Encryp Bkup Enabl emen 0779
P30-P40 Encryp Bkup Enabl emen 0780
P30-P50 Encryp Bkup Enabl emen 0781
P30-P60 Encryp Bkup Enabl emen 0782
P40-P50 Encryp Bkup Enabl emen 0783
P40-P60 Encryp Bkup Enabl emen 0784
P50-P60 Encryp Bkup Enabl emen 0785

Upgrade Description OTC

P05-P10 Encryp ASP Enabl ement 0793
P05-P20 Encryp ASP Enabl ement 0794
P05-P30 Encryp ASP Enabl ement 0795
P05-P40 Encryp ASP Enabl ement 0796
P05-P50 Encryp ASP Enabl ement 0797
P05-P60 Encryp ASP Enabl ement 0798
P10-P20 Encryp ASP Enabl ement 0799
P10-P30 Encryp ASP Enabl ement 0800
P10-P40 Encryp ASP Enabl ement 0801
P10-P50 Encryp ASP Enabl ement 0802
P10-P60 Encryp ASP Enabl ement 0803
P20-P30 Encryp ASP Enabl ement 0804
P20-P40 Encryp ASP Enabl ement 0805
P20-P50 Encryp ASP Enabl ement 0806
P20-P60 Encryp ASP Enabl ement 0807
P30-P40 Encryp ASP Enabl ement 0808
P30-P50 Encryp ASP Enabl ement 0809
P30-P60 Encryp ASP Enabl ement 0810
P40-P50 Encryp ASP Enabl ement 0811
P40-P60 Encryp ASP Enabl ement 0812
P50-P60 Encryp ASP Enabl ement 0813

Other chargeable features

Feature
number

Special delivery features

Expedite -- Customer Expense 3446

Publication features

i5/OS & Key Media Bkup 8001

No-charge features

Feature
number

Publication features

ePOE Customer Notice 5899
Setup and Operation CD 7010

Supply features

V6R1M0 Machine Code 5860

Special delivery features

Electronic SW Delivery 3450
Ship Media Only 3470

Ship Documentation Only	3471
Language features	
English U/L SBCS Primary	2924
English U/C DBCS Primary	2938
English U/L DBCS Primary	2984
Manufacturing features	
CD with PSF Feature	2680
LPAR System Indicator	3441
ePoE features	
ePoE Upg Reg -- Base	2001
ePoE Upg Reg -- M&S Ext	2101
ePoE Upg Reg P05 -- HA Switch	2105
ePoE Upg Reg P10 -- HA Switch	2110
ePoE Upg Reg P20 -- HA Switch	2120
ePoE Upg Reg P30 -- HA Switch	2130
ePoE Upg Reg P40 -- HA Switch	2140
ePoE Upg Reg P50 -- HA Switch	2150
ePoE Upg Reg P60 -- HA Switch	2160
ePoE Upg Reg -- PSF 1-55	2201
ePoE Upg Reg P05 -- HA Journa	2205
ePoE Upg Reg P10 -- HA Journa	2210
ePoE Upg Reg P20 -- HA Journa	2220
ePoE Upg Reg P30 -- HA Journa	2230
ePoE Upg Reg P40 -- HA Journa	2240
ePoE Upg Reg P50 -- HA Journa	2250
ePoE Upg Reg P60 -- HA Journa	2260
ePoE Upg Reg -- PSF 1-100	2301
ePoE Upg Reg P05 -- DB2 SMP	2305
ePoE Upg Reg P10 -- DB2 SMP	2310
ePoE Upg Reg P20 -- DB2 SMP	2320
ePoE Upg Reg P30 -- DB2 SMP	2330
ePoE Upg Reg P40 -- DB2 SMP	2340
ePoE Upg Reg P50 -- DB2 SMP	2350
ePoE Upg Reg P60 -- DB2 SMP	2360
ePoE Upg Reg -- PSF Anyspeed	2401
ePoE Upg Reg P05 -- Opti conne	2405
ePoE Upg Reg P10 -- Opti conne	2410
ePoE Upg Reg P20 -- Opti conne	2420
ePoE Upg Reg P30 -- Opti conne	2430
ePoE Upg Reg P40 -- Opti conne	2440
ePoE Upg Reg P50 -- Opti conne	2450
ePoE Upg Reg P60 -- Opti conne	2460
ePoE Upg Reg -- DB2 Multi Sym	2501
ePoE Upg Reg P05 -- Encry Bku	2505
ePoE Upg Reg P10 -- Encry Bku	2510
ePoE Upg Reg P20 -- Encry Bku	2520
ePoE Upg Reg P30 -- Encry Bku	2530
ePoE Upg Reg P40 -- Encry Bku	2540
ePoE Upg Reg P50 -- Encry Bku	2550
ePoE Upg Reg P60 -- Encry Bku	2560
ePoE Upg Reg P05 -- Encry ASP	2605
ePoE Upg Reg P10 -- Encry ASP	2610
ePoE Upg Reg P20 -- Encry ASP	2620
ePoE Upg Reg P30 -- Encry ASP	2630
ePoE Upg Reg P40 -- Encry ASP	2640
ePoE Upg Reg P50 -- Encry ASP	2650
ePoE Upg Reg P60 -- Encry ASP	2660
Key/ePoE Reg -- 1 Proc	5001
Key/ePoE Reg -- 2 Proc	5002
Key/ePoE Reg -- 3 Proc	5003
Key/ePoE Reg -- 4 Proc	5004
Key/ePoE Reg -- 5 Proc	5005
Key/ePoE Reg -- 6 Proc	5006

Key/ePoE Reg -- 7 Proc	5007
Key/ePoE Reg -- 8 Proc	5008
Key/ePoE Reg -- 9 Proc	5009
Key/ePoE Reg -- 10 Proc	5010
Key/ePoE Reg -- 11 Proc	5011
Key/ePoE Reg -- 12 Proc	5012
Key/ePoE Reg -- 13 Proc	5013
Key/ePoE Reg -- 14 Proc	5014
Key/ePoE Reg -- 15 Proc	5015
Key/ePoE Reg -- 16 Proc	5016
Key/ePoE Reg -- 17 Proc	5017
Key/ePoE Reg -- 18 Proc	5018
Key/ePoE Reg -- 19 Proc	5019
Key/ePoE Reg -- 20 Proc	5020
Key/ePoE Reg -- 21 Proc	5021
Key/ePoE Reg -- 22 Proc	5022
Key/ePoE Reg -- 23 Proc	5023
Key/ePoE Reg -- 24 Proc	5024
Key/ePoE Reg -- 25 Proc	5025
Key/ePoE Reg -- 26 Proc	5026
Key/ePoE Reg -- 27 Proc	5027
Key/ePoE Reg -- 28 Proc	5028
Key/ePoE Reg -- 29 Proc	5029
Key/ePoE Reg -- 30 Proc	5030
Key/ePoE Reg -- 31 Proc	5031
Key/ePoE Reg -- 32 Proc	5032
Per Processor ePoE Reg 1	6001
Per Processor ePoE Reg 2	6002
Per Processor ePoE Reg 3	6003
Per Processor ePoE Reg 4	6004
Per Processor ePoE Reg 5	6005
Per Processor ePoE Reg 6	6006
Per Processor ePoE Reg 7	6007
Per Processor ePoE Reg 8	6008
Per Processor ePoE Reg 9	6009
Per Processor ePoE Reg 10	6010
Per Processor ePoE Reg 11	6011
Per Processor ePoE Reg 12	6012
Per Processor ePoE Reg 13	6013
Per Processor ePoE Reg 14	6014
Per Processor ePoE Reg 15	6015
Per Processor ePoE Reg 16	6016
Per Processor ePoE Reg 17	6017
Per Processor ePoE Reg 18	6018
Per Processor ePoE Reg 19	6019
Per Processor ePoE Reg 20	6020
Per Processor ePoE Reg 21	6021
Per Processor ePoE Reg 22	6022
Per Processor ePoE Reg 23	6023
Per Processor ePoE Reg 24	6024
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Per Processor ePoE Reg 26	6026
Per Processor ePoE Reg 27	6027
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Per Processor ePoE Reg 30	6030
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Per Processor ePoE Reg 35	6035
Per Processor ePoE Reg 36	6036
Per Processor ePoE Reg 37	6037
Per Processor ePoE Reg 38	6038
Per Processor ePoE Reg 39	6039
Per Processor ePoE Reg 40	6040
Per Processor ePoE Reg 41	6041
Per Processor ePoE Reg 42	6042
Per Processor ePoE Reg 43	6043
Per Processor ePoE Reg 44	6044
Per Processor ePoE Reg 45	6045
Per Processor ePoE Reg 46	6046

Per Processor ePoE Reg 47	6047
Per Processor ePoE Reg 48	6048
Per Processor ePoE Reg 49	6049
Per Processor ePoE Reg 50	6050
Per Processor ePoE Reg 51	6051
Per Processor ePoE Reg 52	6052
Per Processor ePoE Reg 53	6053
Per Processor ePoE Reg 54	6054
Per Processor ePoE Reg 55	6055
Per Processor ePoE Reg 56	6056
Per Processor ePoE Reg 57	6057
Per Processor ePoE Reg 58	6058
Per Processor ePoE Reg 59	6059
Per Processor ePoE Reg 60	6060
Per Processor ePoE Reg 61	6061
Per Processor ePoE Reg 62	6062
Per Processor ePoE Reg 63	6063
Per Processor ePoE Reg 64	6064
Key/ePoE Reg 5 Users	6101
Key/ePoE Reg 10 Users	6102
Key/ePoE Reg 15 Users	6103
Key/ePoE Reg 20 Users	6104
Key/ePoE Reg 25 Users	6105
Key/ePoE Reg 30 Users	6106
Key/ePoE Reg 35 Users	6107
Key/ePoE Reg 40 Users	6108
Key/ePoE Reg 45 Users	6109
Key/ePoE Reg 50 Users	6110
Key/ePoE Reg 55 Users	6111
Key/ePoE Reg 60 Users	6112
Key/ePoE Reg 65 Users	6113
Key/ePoE Reg 70 Users	6114
Key/ePoE Reg 75 Users	6115
Key/ePoE Reg 80 Users	6116
Key/ePoE Reg 85 Users	6117
Key/ePoE Reg 90 Users	6118
Key/ePoE Reg 95 Users	6119
Key/ePoE Reg 100 Users	6120
Key/ePoE Reg 105 Users	6121
Key/ePoE Reg 110 Users	6122
Key/ePoE Reg 115 Users	6123
Key/ePoE Reg 120 Users	6124
Key/ePoE Reg 125 Users	6125
Key/ePoE Reg 130 Users	6126
Key/ePoE Reg 135 Users	6127
Key/ePoE Reg 140 Users	6128
Key/ePoE Reg 145 Users	6129
Key/ePoE Reg 150 Users	6130
Key/ePoE Reg 155 Users	6131
Key/ePoE Reg 160 Users	6132
Key/ePoE Reg 165 Users	6133
Key/ePoE Reg 170 Users	6134
Key/ePoE Reg 175 Users	6135
Key/ePoE Reg 180 Users	6136
Key/ePoE Reg 185 Users	6137
Key/ePoE Reg 190 Users	6138
Key/ePoE Reg 195 Users	6139
Key/ePoE Reg 200 Users	6140
Key/ePoE Reg 205 Users	6141
Key/ePoE Reg 210 Users	6142
Key/ePoE Reg 215 Users	6143
Key/ePoE Reg 220 Users	6144
Key/ePoE Reg 225 Users	6145
Key/ePoE Reg 230 Users	6146
Key/ePoE Reg 235 Users	6147
Key/ePoE Reg 240 Users	6148
Key/ePoE Reg 245 Users	6149
Key/ePoE Reg 250 Users	6150
Key/ePoE Reg 255 Users	6151
Key/ePoE Reg 260 Users	6152
Key/ePoE Reg 265 Users	6153
Key/ePoE Reg 270 Users	6154
Key/ePoE Reg 275 Users	6155
Key/ePoE Reg 280 Users	6156

Key/ePoE Reg 285 Users	6157
Key/ePoE Reg 290 Users	6158
Key/ePoE Reg 295 Users	6159
Key/ePoE Reg 300 Users	6160
Key/ePoE Reg 305 Users	6161
Key/ePoE Reg 310 Users	6162
Key/ePoE Reg 315 Users	6163
Key/ePoE Reg 320 Users	6164
Key/ePoE Reg 325 Users	6165
Key/ePoE Reg 330 Users	6166
Key/ePoE Reg 335 Users	6167
Key/ePoE Reg 340 Users	6168
Key/ePoE Reg 345 Users	6169
Key/ePoE Reg 350 Users	6170
Key/ePoE Reg 355 Users	6171
Key/ePoE Reg 360 Users	6172
Key/ePoE Reg 365 Users	6173
Key/ePoE Reg 370 Users	6174
Key/ePoE Reg 375 Users	6175
Key/ePoE Reg 380 Users	6176
Key/ePoE Reg 385 Users	6177
Key/ePoE Reg 390 Users	6178
Key/ePoE Reg 395 Users	6179
Key/ePoE Reg 400 Users	6180
Key/ePoE Reg 405 Users	6181
Key/ePoE Reg 410 Users	6182
Key/ePoE Reg 415 Users	6183
Key/ePoE Reg 420 Users	6184
Key/ePoE Reg 425 Users	6185
Key/ePoE Reg 430 Users	6186
Key/ePoE Reg 435 Users	6187
Key/ePoE Reg 440 Users	6188
Key/ePoE Reg 445 Users	6189
Key/ePoE Reg 450 Users	6190
Key/ePoE Reg 455 Users	6191
Key/ePoE Reg 460 Users	6192
Key/ePoE Reg 465 Users	6193
Key/ePoE Reg 470 Users	6194
Key/ePoE Reg 475 Users	6195
Key/ePoE Reg 480 Users	6196
Key/ePoE Reg 485 Users	6197
Key/ePoE Reg 490 Users	6198
Key/ePoE Reg 495 Users	6199
Per Proc Appl Srv ePoE Reg 1	6201
Per Proc Appl Srv ePoE Reg 2	6202
Per Proc Appl Srv ePoE Reg 3	6203
Per Proc Appl Srv ePoE Reg 4	6204
Per Proc Appl Srv ePoE Reg 5	6205
Per Proc Appl Srv ePoE Reg 6	6206
Per Proc Appl Srv ePoE Reg 7	6207
Per Proc Appl Srv ePoE Reg 8	6208
Per Proc Appl Srv ePoE Reg 9	6209
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Per Proc Appl Srv ePoE Reg 13	6213
Per Proc Appl Srv ePoE Reg 14	6214
Per Proc Appl Srv ePoE Reg 15	6215
Per Proc Appl Srv ePoE Reg 16	6216
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Per Proc Appl Srv ePoE Reg 18	6218
Per Proc Appl Srv ePoE Reg 19	6219
Per Proc Appl Srv ePoE Reg 20	6220
Per Proc Appl Srv ePoE Reg 21	6221
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Per Proc Appl Srv ePoE Reg 23	6223
Per Proc Appl Srv ePoE Reg 24	6224
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Per Proc Appl Srv ePoE Reg 26	6226
Per Proc Appl Srv ePoE Reg 27	6227
Per Proc Appl Srv ePoE Reg 28	6228
Per Proc Appl Srv ePoE Reg 29	6229
Per Proc Appl Srv ePoE Reg 30	6230
Per Proc Appl Srv ePoE Reg 31	6231

Per Proc Appl Srv ePoE Reg 32	6232
Per Proc Appl Srv ePoE Reg 33	6233
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Per Proc Appl Srv ePoE Reg 35	6235
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Per Proc Appl Srv ePoE Reg 37	6237
Per Proc Appl Srv ePoE Reg 38	6238
Per Proc Appl Srv ePoE Reg 39	6239
Per Proc Appl Srv ePoE Reg 40	6240
Per Proc Appl Srv ePoE Reg 41	6241
Per Proc Appl Srv ePoE Reg 42	6242
Per Proc Appl Srv ePoE Reg 43	6243
Per Proc Appl Srv ePoE Reg 44	6244
Per Proc Appl Srv ePoE Reg 45	6245
Per Proc Appl Srv ePoE Reg 46	6246
Per Proc Appl Srv ePoE Reg 47	6247
Per Proc Appl Srv ePoE Reg 48	6248
Per Proc Appl Srv ePoE Reg 49	6249
Per Proc Appl Srv ePoE Reg 50	6250
Per Proc Appl Srv ePoE Reg 51	6251
Per Proc Appl Srv ePoE Reg 52	6252
Per Proc Appl Srv ePoE Reg 53	6253
Per Proc Appl Srv ePoE Reg 54	6254
Per Proc Appl Srv ePoE Reg 55	6255
Per Proc Appl Srv ePoE Reg 56	6256
Per Proc Appl Srv ePoE Reg 57	6257
Per Proc Appl Srv ePoE Reg 58	6258
Per Proc Appl Srv ePoE Reg 59	6259
Per Proc Appl Srv ePoE Reg 60	6260
Per Proc Appl Srv ePoE Reg 61	6261
Per Proc Appl Srv ePoE Reg 62	6262
Per Proc Appl Srv ePoE Reg 63	6263
Per Proc Appl Srv ePoE Reg 64	6264
Key/ePoe Reg Unlimited Users	6398
Key/ePoe Reg Ext Access User	6399

Supply features

V6R1 Supply -- i5/OS	5819
V6R1 Supply -- HA Journal	5910
V6R1 Supply -- M&S Extension	5911
V6R1 Supply -- OptiConnect	5912
V6R1 Supply -- DB2 Symm	5913
V6R1 Supply -- DB2 Multisyste	5914
V6R1 Supply -- Encrypted Back	5915
V6R1 Supply -- PSF 1-55 IPM	5916
V6R1 Supply -- PSF 1-100 IPM	5917
V6R1 Supply -- PSF AnySpeed	5918
V6R1 Supply -- HA Switchable	5919
V6R1 Supply -- Encrypted ASP	5920
Physical Delivered Materials	5945
Lic Documents -- i5/OS	5950

Other features

SW Key 1st MT Digit V6	4001
SW Key 2nd MT Digit V6	4002
SW Key 3rd MT Digit V6	4003
SW Key 4th MT Digit V6	4004
SW Key 1st CPU Digit V6	4005
SW Key 2nd CPU Digit V6	4006
SW Key 3rd CPU Digit V6	4007
SW Key 4th CPU Digit V6	4008
SW Key 5th CPU Digit V6	4009
Sw Key 6th CPU Digit V6	4010
SW Key 7th CPU Digit V6	4011

i5/OS License (5761-SSA)

Charge features

Initial order

i5/OS License (5761-SSA)	Per Processor
Per Proc w/1yr SWMA -- 515	1453
Per Proc w/1yr SWMA -- 520	1454
Per Proc w/1yr SWMA -- 525	1455
Per Proc w/1yr SWMA -- 550	1456
Per Proc w/1yr SWMA -- 570	1458
Per Proc w/1yr SWMA -- 595	1460
Per Proc w/1yr SWMA -- MMA	1462
Per Proc w/1yr SWMA -- 61x	1463

i5/OS Application Server (5761-SSB)

Charge features

Initial order

i5/OS Application Server -- (5761-SSB)	Per Processor
Per Proc w/1Yr SWMA -- 550	0819
Per Proc w/1Yr SWMA -- 570	0820
Per Proc w/1Yr SWMA -- 595	0821
Per Proc w/1Yr SWMA -- MMA	0822

i5/OS User Billing (5761-SSC)

Charge features

Initial order

i5/OS User Billing (5761-SSC)	Per Usage
5 Users Chrg/HW -- 515	1464
5 Users -- 515	1465
Unlimited Users -- 515	1466
Unlimited Users Chrg/HW -- 515	1467
10 Users Chrg/HW -- 525	1468
10 Users -- 525	1469
10 Users CBU/Upg -- 525	1470
Unlimited Users -- 525	1471
Unlimit Users CBU/Upg -- 525	1472
Unlimit Users Chrg/HW -- 525	1473
Unlim Ext Access Users -- 515	1474
Unlim Ext Access Users -- 525	1475
Unlimit Collab Users -- 515	1476
Unlimit Collab Users -- 525	1477
10 Users -- PWR6-61X	1478
Unlimit Users -- PWR6-61X	1479
Unlim Ext Access -- PWR6-61X	1480
Unlim Collab User -- PWR6-61X	1481

i5/OS V5R4 (5722-SS1)

No-charge features

Feature
number

Supply feature

Universal Manageability Enablement for i5/OS
Refresh for V5R4 2645

Temporary License for System i (5733-ITL)

No-charge features

	Feature number
Asset registration features	
V6R1	5060

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

No-charge features

	Feature number
ePoE features	
Encry Bckup Enable (5761-SS1)	2602
Encry ASP Enable (5761-SS1)	2603

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 license includes 1 year Software Maintenance
5761-SS1 i5/OS

5733-SPP Maintenance no charge 1 year registration + 1 year renewal

Feature description

Per user

5733-SP3 Maintenance 3 year registration (2 year uplift)

5733-SP3 Maintenance 3 year renewal

5733-MAL Software Maintenance After License, 1 year

Software Maintenance After License

5733-MAL Software Maintenance After License, 3 year
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<http://www.ibm.com/software/support>

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Volume orders (IVO): Yes. Contact your IBM representative.

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Passport Advantage applies: No

Software Maintenance applies: Yes. All distributed software licenses include Software Maintenance (Software Subscription and Technical Support) 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 Maintenance 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 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 Guide at

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Software Maintenance 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.

For more information about the Passport Advantage Agreement, visit the Passport Advantage Web site at

<http://www.ibm.com/software/passportadvantage>

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.

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.

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To learn how Electronic Services can work for you, visit

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

Prices

IBM i5/OS (5761-SS1)

Charge features

Initial order

IBM i5/OS (5761-SS1)	Per Processor	OTC
Per Proc w/o SWMA -- 515	1309	\$ 1,795
Per Proc Chrg/HW -- 515	1310	0
Per Proc Reg Addl Lic -- 515	1311	0
Per Proc w/o SWMA -- 520	1312	21,000
Per Proc Chrg/HW -- 520	1314	0
Per Proc Reg Addl Lic -- 520	1315	0
Per Proc w/o SWMA -- 525	1316	5,995
Per Proc Chrg/HW -- 525	1317	0
Per Proc Reg Addl Lic -- 525	1318	0
Per Proc w/o SWMA -- 550	1319	40,000
Per Proc Chrg/HW -- 550	1320	0
Per Proc Reg Addl Lic -- 550	1321	0
Per Proc w/o SWMA -- 570	1322	53,000
Per Proc Chrg/HW -- 570	1323	0
Per Proc Reg Addl Lic -- 570	1324	0
Per Proc w/o SWMA -- 595	1325	53,000
Per Proc Chrg/HW -- 595	1326	0
Per Proc Reg Addl Lic -- 595	1327	0
Per Proc w/o SWMA -- MMA	1328	53,000
Per Proc Chrg/HW -- MMA	1329	0
Per Proc Reg Addl Lic -- MMA	1330	0
Per Proc PWR6 Blade -- 61X	1347	10,995

Per Proc Addl Lic -- 825	1299	45,000
Per Proc Addl Lic -- 870	1301	45,000
Per Proc Addl Lic -- 890	1302	45,000
i5/OS (5761-SS1)	Per Server	OTC
Media Charge		
Keyed Product Media Charge	1348	\$0
Non-keyed Product Media Charge	1349	0
IBM Media and Storage Extensions	Per Server	OTC
Per Serv OTC M&S Ext	1303	\$995
Per Serv Chrg/HW M&S Ext	1304	0
Per Serv w/SW Pkg M&S Ext	1305	0
IBM DB2 Multisystem	Per Server	OTC
Per Serv DB2 Multisystem	0706	\$25,000
DB2 Symmetric Multiprocessing	OTC	
	Feature	OTC
P05 DB2 Symm Multiproc	1243	\$ 1,000
P10 DB2 Symm Multiproc	1244	2,000
P20 DB2 Symm Multiproc	1246	6,000
P30 DB2 Symm Multiproc	1249	12,000
P40 DB2 Symm Multiproc	1253	18,000
P50 DB2 Symm Multiproc	1258	24,000
P60 DB2 Symm Multiproc	1264	30,000
P05 DB2 Symm Mult Reg Chrg/HW	1271	0
P10 DB2 Symm Mult Reg Chrg/HW	1272	0
P20 DB2 Symm Mult Reg Chrg/HW	1273	0
P30 DB2 Symm Mult Reg Chrg/HW	1274	0
P40 DB2 Symm Mult Reg Chrg/HW	1275	0
P50 DB2 Symm Mult Reg Chrg/HW	1276	0
P60 DB2 Symm Mult Reg Chrg/HW	1277	0
P05 DB2 Symm Mul Reg w/SW Pkg	1278	0
P10 DB2 Symm Mul Reg w/SW Pkg	1279	0
P20 DB2 Symm Mul Reg w/SW Pkg	1280	0
P30 DB2 Symm Mul Reg w/SW Pkg	1281	0
P40 DB2 Symm Mul Reg w/SW Pkg	1282	0
P50 DB2 Symm Mul Reg w/SW Pkg	1283	0
P60 DB2 Symm Mul Reg w/SW Pkg	1284	0
IBM PSF for i5/OS 1-55 IPM	Per Server	OTC
Printer Support		
Per Server PSF 1-55 IPM	0751	\$2,495
IBM PSF for i5/OS 1-100 IPM	Per Server	OTC
Printer Support		
Per Server PSF 1-100 IPM	0754	\$4,500
IBM PSF for i5/OS AnySpeed	Per Server	OTC
Printer Support		
Per Server PSF AnySpeed	0814	\$6,995
HA Switchable Resource	OTC	
	Feature	OTC
P05 HA Switchable Resource	0709	\$ 2,085
P10 HA Switchable Resource	0710	
P20 HA Switchable Resource	0711	4,170
P30 HA Switchable Resource	0712	12,500
P40 HA Switchable Resource	0713	25,000
P50 HA Switchable Resource	0714	37,500
P60 HA Switchable Resource	0715	50,000
P05 HA Switchable Res Chrg/HW	0737	62,500
P10 HA Switchable Res Chrg/HW	0738	0

P20 HA Switchable Res Chrg/HW 0739	0
P30 HA Switchable Res Chrg/HW 0740	0
P40 HA Switchable Res Chrg/HW 0741	0
P50 HA Switchable Res Chrg/HW 0742	0
P60 HA Switchable Res Chrg/HW 0743	0

HA Journal Perf	OTC	
	Feature	OTC
P05 HA Journal Perf	0671	\$ 500
P10 HA Journal Perf	0672	1,000
P20 HA Journal Perf	0673	3,000
P30 HA Journal Perf	0674	6,000
P40 HA Journal Perf	0675	9,000
P50 HA Journal Perf	0676	12,000
P60 HA Journal Perf	0677	15,000

5761-SS1	OTC	
	Feature	OTC
P05 OTC SW Accommodation	0648	\$ 2,550
P10 OTC SW Accommodation	0649	9,000
P20 OTC SW Accommodation	0650	26,000
P30 OTC SW Accommodation	0651	70,000
P40 OTC SW Accommodation	0652	160,000

5761-SS1	OTC	
	Feature	OTC
P05 Opti Connect	0620	\$ 420
P10 Opti Connect	0621	840
P20 Opti Connect	0622	2,520
P30 Opti Connect	0623	5,040
P40 Opti Connect	0624	7,560
P50 Opti Connect	0625	10,080
P60 Opti Connect	0626	12,600

5761-SS1	OTC	
	Feature	OTC
P05 Encrypted Backup Enable	0758	\$ 1,000
P10 Encrypted Backup Enable	0759	2,000
P20 Encrypted Backup Enable	0760	6,000
P30 Encrypted Backup Enable	0761	12,000
P40 Encrypted Backup Enable	0762	18,000
P50 Encrypted Backup Enable	0763	24,000
P60 Encrypted Backup Enable	0764	30,000

5761-SS1	OTC	
	Feature	OTC
P05 Encrypted ASP Enablement	0786	\$ 1,000
P10 Encrypted ASP Enablement	0787	2,000
P20 Encrypted ASP Enablement	0788	6,000
P30 Encrypted ASP Enablement	0789	12,000
P40 Encrypted ASP Enablement	0790	18,000
P50 Encrypted ASP Enablement	0791	24,000
P60 Encrypted ASP Enablement	0792	30,000

Upgrade order

Upgrades To: 5761-SS1	Per Processor	OTC
Upg Per Proc from 8xx -- MMA	1331	\$0
Upg Per Proc from 550 -- MMA	1332	0
Upg Per Proc from 570 -- MMA	1333	0
Upg Per Proc from 8xx -- 550	1363	0
Upg Per Proc from 8xx -- 570	1364	0
Upg Per Proc from 8xx -- 595	1365	0
From: 5761-SS1 To: 5761-SS1	Per Server	OTC
Upg PSF 1-55 to PSF 1-100	0755	\$2,005

Upg PSF 1-55 to PSF Anyspeed	0815	4,500
Upg PSF 1-100 to PSF Anyspeed	0817	2,495
From: 5769-SS1 To: 5761-SS1	OTC	
	Feature	OTC
P05 Upg Opti Connect	5769-SS1 0612	\$0
P10 Upg Opti Connect	5769-SS1 0613	0
P20 Upg Opti Connect	5769-SS1 0614	0
P30 Upg Opti Connect	5769-SS1 0615	0
P40 Upg Opti Connect	5769-SS1 0616	0
P50 Upg Opti Connect	5769-SS1 0617	0
P60 Upg Opti Connect	5769-SS1 0618	0
From: 5769-SS1 To: 5761-SS1	OTC	
	Feature	OTC
P05 Upg DB2 Symm	5769-SS1 1285	\$0
P10 Upg DB2 Symm	5769-SS1 1286	0
P20 Upg DB2 Symm	5769-SS1 1287	0
P30 Upg DB2 Symm	5769-SS1 1288	0
P40 Upg DB2 Symm	5769-SS1 1289	0
P50 Upg DB2 Symm	5769-SS1 1290	0
P60 Upg DB2 Symm	5769-SS1 1291	0
From: 5769-SS1 To: 5761-SS1	Per Server	
	Feature	OTC
Per Serv DB2 Multi	5769-SS1 0707	\$0
From: 5769-SS1 To: 5761-SS1	Per Server	
	Feature	OTC
Upg Per Serv M&S (5769-SS1)	1307	\$0
Per Serv PSF 1-55 (5769-SS1)	0753	0
Per Serv PSF 1-100 (5769-SS1)	0756	0
Per Serv AnySpeed (5769-SS1)	0818	0
From: 5722-SS1 To: 5761-SS1	OTC	
	Feature	OTC
P05 Upg Opti Connect	5722-SS1 0605	\$0
P10 Upg Opti Connect	5722-SS1 0606	0
P20 Upg Opti Connect	5722-SS1 0607	0
P30 Upg Opti Connect	5722-SS1 0608	0
P40 Upg Opti Connect	5722-SS1 0609	0
P50 Upg Opti Connect	5722-SS1 0610	0
P60 Upg Opti Connect	5722-SS1 0611	0
From: 5722-SS1 To: 5761-SS1	OTC	
	Feature	OTC
P05 Upg DB2 Symm	5722-SS1 1292	\$0
P10 Upg DB2 Symm	5722-SS1 1293	0
P20 Upg DB2 Symm	5722-SS1 1294	0
P30 Upg DB2 Symm	5722-SS1 1295	0
P40 Upg DB2 Symm	5722-SS1 1296	0
P50 Upg DB2 Symm	5722-SS1 1297	0
P60 Upg DB2 Symm	5722-SS1 1298	0
From: 5722-SS1 To: 5761-SS1	OTC	
	Feature	OTC
P05 Upg HA Switch	5722-SS1 0744	\$0
P10 Upg HA Switch	5722-SS1 0745	0
P20 Upg HA Switch	5722-SS1 0746	0
P30 Upg HA Switch	5722-SS1 0747	0
P40 Upg HA Switch	5722-SS1 0748	0
P50 Upg HA Switch	5722-SS1 0749	0
P60 Upg HA Switch	5722-SS1 0750	0
From: 5722-SS1 To: 5761-SS1	OTC	
	Feature	OTC

P05 Upg HA Journal 5722-SS1	0699	\$0
P10 Upg HA Journal 5722-SS1	0700	0
P20 Upg HA Journal 5722-SS1	0701	0
P30 Upg HA Journal 5722-SS1	0702	0
P40 Upg HA Journal 5722-SS1	0703	0
P50 Upg HA Journal 5722-SS1	0704	0
P60 Upg HA Journal 5722-SS1	0705	0

From: 5722-SS1 To: 5761-SS1 Per Server
Feature OTC

Per Serv DB2 Multi 5722-SS1 0708 \$0

From: 5722-SS1 To: 5761-SS1 Per Server
Feature OTC

Upg Per Serv M&S (5722-SS1)	1306	\$0
Per Serv PSF 1-55 (5722-SS1)	0752	0
Per Serv PSF 1-100 (5722-SS1)	0757	0
Per Serv AnySpeed (5722-SS1)	0816	0

From: 5799-BJC To: 5761-SS1 OTC
Feature OTC

P05 Upg HA Journal 5799-BJC	0663	\$ 100
P10 Upg HA Journal 5799-BJC	0664	200
P20 Upg HA Journal 5799-BJC	0665	600
P30 Upg HA Journal 5799-BJC	0666	1,200
P40 Upg HA Journal 5799-BJC	0667	1,800
P50 Upg HA Journal 5799-BJC	0668	2,400
P60 Upg HA Journal 5799-BJC	0669	3,000

Group-to-group upgrades

Upgrade Description	OTC Feature	OTC
P05-P10 OTC SW Accom	0653	\$ 6,450
P05-P20 OTC SW Accom	0654	23,450
P05-P30 OTC SW Accom	0655	67,450
P05-P40 OTC SW Accom	0656	157,450
P10-P20 OTC SW Accom	0657	17,000
P10-P30 OTC SW Accom	0658	61,000
P10-P40 OTC SW Accom	0659	151,000
P20-P30 OTC SW Accom	0660	44,000
P20-P40 OTC SW Accom	0661	134,000
P30-P40 OTC SW Accom	0662	90,000

Upgrade Description	OTC Feature	OTC
P05-P10 Opti Connect	0627	\$ 420
P05-P20 Opti Connect	0628	2,100
P05-P30 Opti Connect	0629	4,620
P05-P40 Opti Connect	0630	7,140
P05-P50 Opti Connect	0631	9,660
P05-P60 Opti Connect	0632	12,180
P10-P20 Opti Connect	0633	1,680
P10-P30 Opti Connect	0634	4,200
P10-P40 Opti Connect	0635	6,720
P10-P50 Opti Connect	0636	9,240
P10-P60 Opti Connect	0637	11,760
P20-P30 Opti Connect	0638	2,520
P20-P40 Opti Connect	0639	5,040
P20-P50 Opti Connect	0640	7,560
P20-P60 Opti Connect	0641	10,080
P30-P40 Opti Connect	0642	2,520
P30-P50 Opti Connect	0643	5,040
P30-P60 Opti Connect	0644	7,560
P40-P50 Opti Connect	0645	2,520
P40-P60 Opti Connect	0646	5,040
P50-P60 Opti Connect	0647	2,520

Upgrade	Description	OTC Feature	OTC
P05-P10	OTC DB2 Symm Multi	1245	\$ 1,000
P05-P20	OTC DB2 Symm Multi	1247	5,000
P05-P30	OTC DB2 Symm Multi	1250	11,000
P05-P40	OTC DB2 Symm Multi	1254	17,000
P05-P50	OTC DB2 Symm Multi	1259	23,000
P05-P60	OTC DB2 Symm Multi	1265	29,000
P10-P20	OTC DB2 Symm Multi	1248	4,000
P10-P30	OTC DB2 Symm Multi	1251	10,000
P10-P40	OTC DB2 Symm Multi	1255	16,000
P10-P50	OTC DB2 Symm Multi	1260	22,000
P10-P60	OTC DB2 Symm Multi	1266	28,000
P20-P30	OTC DB2 Symm Multi	1252	6,000
P20-P40	OTC DB2 Symm Multi	1256	12,000
P20-P50	OTC DB2 Symm Multi	1261	18,000
P20-P60	OTC DB2 Symm Multi	1267	24,000
P30-P40	OTC DB2 Symm Multi	1257	6,000
P30-P50	OTC DB2 Symm Multi	1262	12,000
P30-P60	OTC DB2 Symm Multi	1268	18,000
P40-P50	OTC DB2 Symm Multi	1263	6,000
P40-P60	OTC DB2 Symm Multi	1269	12,000
P50-P60	OTC DB2 Symm Multi	1270	6,000

Upgrade	Description	OTC Feature	OTC
P05-P10	OTC HA Switchable	0716	\$ 2,085
P05-P20	OTC HA Switchable	0717	10,415
P05-P30	OTC HA Switchable	0718	22,915
P05-P40	OTC HA Switchable	0719	35,145
P05-P50	OTC HA Switchable	0720	47,915
P05-P60	OTC HA Switchable	0721	60,415
P10-P20	OTC HA Switchable	0722	8,330
P10-P30	OTC HA Switchable	0723	20,830
P10-P40	OTC HA Switchable	0724	33,330
P10-P50	OTC HA Switchable	0725	45,830
P10-P60	OTC HA Switchable	0726	58,330
P20-P30	OTC HA Switchable	0727	12,500
P20-P40	OTC HA Switchable	0728	25,000
P20-P50	OTC HA Switchable	0729	37,500
P20-P60	OTC HA Switchable	0730	50,000
P30-P40	OTC HA Switchable	0731	12,500
P30-P50	OTC HA Switchable	0732	25,000
P30-P60	OTC HA Switchable	0733	37,500
P40-P50	OTC HA Switchable	0734	12,500
P40-P60	OTC HA Switchable	0735	25,000
P50-P60	OTC HA Switchable	0736	12,500

Upgrade	Description	OTC Feature	OTC
P05-P10	OTC HA Journ Perf	0678	\$ 500
P05-P20	OTC HA Journ Perf	0679	2,500
P05-P30	OTC HA Journ Perf	0680	5,500
P05-P40	OTC HA Journ Perf	0681	8,500
P05-P50	OTC HA Journ Perf	0682	11,500
P05-P60	OTC HA Journ Perf	0683	14,500
P10-P20	OTC HA Journ Perf	0684	2,000
P10-P30	OTC HA Journ Perf	0685	5,000
P10-P40	OTC HA Journ Perf	0686	8,000
P10-P50	OTC HA Journ Perf	0687	11,000
P10-P60	OTC HA Journ Perf	0688	14,000
P20-P30	OTC HA Journ Perf	0689	3,000
P20-P40	OTC HA Journ Perf	0690	6,000
P20-P50	OTC HA Journ Perf	0691	9,000
P20-P60	OTC HA Journ Perf	0692	12,000
P30-P40	OTC HA Journ Perf	0693	3,000
P30-P50	OTC HA Journ Perf	0694	6,000
P30-P60	OTC HA Journ Perf	0695	9,000
P40-P50	OTC HA Journ Perf	0696	3,000
P40-P60	OTC HA Journ Perf	0697	6,000

P50-P60 OTC HA Journ Perf 0698 3,000

Upgrade Description OTC
Feature OTC

P05-P10 Encryp Bkup Enabl emen	0765	\$ 1,000
P05-P20 Encryp Bkup Enabl emen	0766	5,000
P05-P30 Encryp Bkup Enabl emen	0767	11,000
P05-P40 Encryp Bkup Enabl emen	0768	17,000
P05-P50 Encryp Bkup Enabl emen	0769	23,000
P05-P60 Encryp Bkup Enabl emen	0770	29,000
P10-P20 Encryp Bkup Enabl emen	0771	4,000
P10-P30 Encryp Bkup Enabl emen	0772	10,000
P10-P40 Encryp Bkup Enabl emen	0773	16,000
P10-P50 Encryp Bkup Enabl emen	0774	22,000
P10-P60 Encryp Bkup Enabl emen	0775	28,000
P20-P30 Encryp Bkup Enabl emen	0776	6,000
P20-P40 Encryp Bkup Enabl emen	0777	12,000
P20-P50 Encryp Bkup Enabl emen	0778	18,000
P20-P60 Encryp Bkup Enabl emen	0779	24,000
P30-P40 Encryp Bkup Enabl emen	0780	6,000
P30-P50 Encryp Bkup Enabl emen	0781	12,000
P30-P60 Encryp Bkup Enabl emen	0782	18,000
P40-P50 Encryp Bkup Enabl emen	0783	6,000
P40-P60 Encryp Bkup Enabl emen	0784	12,000
P50-P60 Encryp Bkup Enabl emen	0785	6,000

Upgrade Description OTC
Feature OTC

P05-P10 Encryp ASP Enabl ement	0793	\$ 1,000
P05-P20 Encryp ASP Enabl ement	0794	5,000
P05-P30 Encryp ASP Enabl ement	0795	11,000
P05-P40 Encryp ASP Enabl ement	0796	17,000
P05-P50 Encryp ASP Enabl ement	0797	23,000
P05-P60 Encryp ASP Enabl ement	0798	29,000
P10-P20 Encryp ASP Enabl ement	0799	4,000
P10-P30 Encryp ASP Enabl ement	0800	10,000
P10-P40 Encryp ASP Enabl ement	0801	16,000
P10-P50 Encryp ASP Enabl ement	0802	22,000
P10-P60 Encryp ASP Enabl ement	0803	28,000
P20-P30 Encryp ASP Enabl ement	0804	6,000
P20-P40 Encryp ASP Enabl ement	0805	12,000
P20-P50 Encryp ASP Enabl ement	0806	18,000
P20-P60 Encryp ASP Enabl ement	0807	24,000
P30-P40 Encryp ASP Enabl ement	0808	6,000
P30-P50 Encryp ASP Enabl ement	0809	12,000
P30-P60 Encryp ASP Enabl ement	0810	18,000
P40-P50 Encryp ASP Enabl ement	0811	6,000
P40-P60 Encryp ASP Enabl ement	0812	12,000
P50-P60 Encryp ASP Enabl ement	0813	6,000

Other chargeable features

	Feature number	OTC
Special delivery features		
Expedite -- Customer Expense	3446	\$30
Publication features		
i5/OS & Key Media Bkup	8001	85

i5/OS License (5761-SSA)

Charge features

Initial order

i5/OS License	Per Processor Feature	OTC
Per Proc w/1yr SWMA -- 515	1453	\$ 2,995
Per Proc w/1yr SWMA -- 520	1454	25,000
Per Proc w/1yr SWMA -- 525	1455	8,995
Per Proc w/1yr SWMA -- 550	1456	44,000
Per Proc w/1yr SWMA -- 570	1458	59,000
Per Proc w/1yr SWMA -- 595	1460	59,000
Per Proc w/1yr SWMA -- MMA	1462	59,000
Per Proc w/1yr SWMA -- 61x	1463	14,995

i5/OS Application Server (5761-SSB)

Charge features

Initial order

i5/OS Application Server -- (5761-SSB)	Per Processor Feature	OTC
Per Proc w/1Yr SWMA -- 550	0819	\$14,000
Per Proc w/1Yr SWMA -- 570	0820	19,000
Per Proc w/1Yr SWMA -- 595	0821	19,000
Per Proc w/1Yr SWMA -- MMA	0822	19,000

i5/OS User Billing (5761-SSC)

Charge features

Initial Order

i5/OS User Billing (5761-SSC)	Per Usage Feature	OTC
5 Users Chrg/HW -- 515	1464	\$ 0
5 Users -- 515	1465	1,250
Unlimited Users -- 515	1466	18,750
Unlimited Users Chrg/HW -- 515	1467	0
10 Users Chrg/HW -- 525	1468	0
Per 10 Users -- 525	1469	2,500
Per 10 Users CBU/Upg -- 525	1470	1,000
Unlimited Users -- 525	1471	50,000
Unlimit Users CBU/Upg -- 525	1472	15,000
Unlimit Users Chrg/HW -- 525	1473	0
Unlim Ext Access Users -- 515	1474	3,995
Unlim Ext Access Users -- 525	1475	3,995
Unlimit Collab Users -- 515	1476	3,995
Unlimit Collab Users -- 525	1477	5,995
10 Users -- PWR6-61X	1478	2,500
Unlimit Users -- PWR6-61X	1479	50,000
Unlim Ext Access -- PWR6-61X	1480	3,995
Unlim Collab User -- PWR6-61X	1481	5,995

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