IBM Web Enablement for i, V1.1 delivers IBM WebSphere Application Server 9.0, the next generation application infrastructure for modern applications to support seamless portability across hybrid on premises and cloud landscapes

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At a glance

IBM(R) Web Enablement for i, V1.1 delivers WebSphere(R) Application Server 9.0, which with its traditional and Liberty run times, offers an industry-leading, production-ready, standards-based Java™ EE 7 compliant architecture.

Highlights of the WebSphere Application Server 9.0 include:

- Certification to the Java EE 7 Web Profile and Java EE 7 Full Platform for WebSphere Application Server traditional and Liberty, which can provide assurance that applications use standards-compliant programming models
- Ease of connecting existing on-premises applications with IBM Bluemix(R) services that include IBM Watson™ cognitive computing for optimal business outcomes
- Enhanced support for creating, documenting, and discovering APIs and for integrating with API platforms such as IBM API Connect™
- Significant improvements in software delivery lifecycle times through seamless integration into DevOps workflows, which enables continuous delivery and can remove cross-team dependencies for deployment

WebSphere Application Server 9.0 included with Web Enablement for i, V1.1 continues to offer the leading open standards-based application foundation for traditional workloads and modern applications that tend to be delivered as services. It can enable accelerated delivery of innovative applications with unmatched operational efficiency, reliability, administration, security, and control.

Overview

Social, mobile, analytics, and cloud technologies are accelerating the pace of business. Software is now a key driver of differentiation and innovation, and a gateway to new services; revenue streams; seamless, omni-channel customer experiences; and expansion into new markets. But success in this new era depends on how enterprises will transform IT to bring increased agility and speed to their existing business.

As enterprise IT is called upon to implement a business strategy to enter new markets, reach new customers, and drive competitive differentiation, IT needs a new way to build software that is faster, more flexible, and more composable. It

also requires reusable components that enable rapid assembly of applications in support of dynamic business needs. This approach requires an application platform that offers modular architectures; next-generation integration techniques; a cloud-first, mobile-first mindset; and seamless portability across a hybrid landscape.

WebSphere Application Server V9.0, delivered with IBM Web Enablement for i, V1.1, with its traditional and Liberty run times, offers industry-leading, production-ready, standards-based Java EE 7 compliant architectures that support the API economy and underpin business transformation. Additional features and enhancements to WebSphere Application Server offer a right-fit infrastructure for enterprise IT, upon which businesses can deliver composable applications. This can enable security enhanced, flexible, and efficient access to internal or external software components and services.

Other enhancements provide ease of integrating WebSphere run times in the DevOps workflows for continuous integration and continuous delivery. IBM Cloud Services and Docker container support for seamless deployment to hybrid topologies and an ever-growing tool chain of eco-system products further accelerate the pace of development and deployment.

- Java EE 7 Web Profile and Full Platform certification of WebSphere Application Server traditional, brings the traditional run time to the same Java EE level as the Liberty run time. This certification supports deployment of any Java EE 7 based application that uses the latest industry standards for on-premises or in the cloud. It enables you to easily exploit HTML5 to help improve application responsiveness, increase developer productivity, and meet the most demanding enterprise requirements.
- WebSphere Application Server traditional and Liberty support for Java Platform, Standard Edition 8 (Java SE 8) can deliver enhanced developer productivity and significant application performance improvements.

Key prerequisites

Web Enablement for i, V1.1 is supported on systems that support IBM i 7.1, or later. Refer to the IBM System to IBM i maps website for details.

Planned availability date

June 24, 2016

Description

IBM WebSphere Application Server is a proven, high-performance transactional run time that can help you build, run, integrate, and manage dynamic business applications. WebSphere Application Server 9.0, delivered with Web Enablement for i, V1.1 now brings the latest in Java enterprise standards, the Java EE 7 Web Profile, and Java EE 7 Full Platform, to WebSphere Application Server traditional and supports their deployment across a wide spectrum of container, virtualization, and cloud environments. Liberty is already certified to Java EE 7 Web Profile and Java EE7 Full Platform.

With WebSphere Application Server 9.0, you can deliver a broad range of applications, which support traditional workloads that favor Systems of Record (SOR)-type applications or the modern workloads, also known as Systems of Engagement (SOE) applications, that are typically delivered as microservices. WebSphere Application Server 9.0, delivered with Web Enablement for i, V1.1, supports development and delivery of both these styles of applications by offering two standards-based server run times and tools in a single offering:

- WebSphere Application Server traditional, previously known as full profile

- Liberty

These two run times help you meet the demands of multispeed IT. They can enable you to rapidly develop new customer-facing capabilities with Liberty, while helping maintain the pace for traditional workloads with WebSphere Application Server traditional.

All WebSphere Application Server editions are built on a common server foundation that is designed to deliver the same Java EE and broad programming model support and transactional run time. However, Liberty is designed and optimized for fast-paced deployments of applications that can deliver business value through continuous integration and delivery.

WebSphere Application Server 9.0 enables applications that are deployed on WebSphere Application Server traditional in an on-premises environment to easily integrate with Watson™ cognitive cloud services. Now every application can benefit from cognitive analytics in support of making optimal business decisions. WebSphere Application Server traditional and Liberty continue to deliver a high level of enterprise qualities of services required for the most demanding workloads, such as rock-solid security; high availability, reliability, and serviceability; a high-performance transaction engine; and intelligent management capabilities that minimize end-user outages and maximize operations. Liberty, while maintaining developer-friendly aspects such as light weight and fast startup, extends these capabilities through additional programming models and ease of integration with DevOps workflows that can shorten the delivery lifecycle of modern applications.

Java EE 7 Web Profile and Full Platform certified run time for WebSphere Application Server traditional can provide the following advantages to businesses:

- Extend the set of applications that can be rapidly developed on Liberty for deployment to both Liberty and WebSphere Application Server traditional. This now includes Java EE 7 in addition to Java EE 6 applications.
- Provide scalable infrastructure that facilitates building HTML5 applications for improved responsiveness through low-latency, bidirectional communication with WebSockets. It simplifies data parsing and exchange using industry-standard JSON processing and supports many more concurrent users through asynchronous RESTful Web Services with JAX-RS 2.0 client support.
- Increase developer productivity with a simplified application architecture, reduced boilerplate code using dependency injection and default resources, broadened use of annotations to increase efficiency, and enhanced application portability with standard RESTful Web Services client support.
- Meet the most demanding enterprise requirements, such as breaking down batch jobs into manageable chunks for uninterrupted OLTP performance; defining multithreaded concurrent tasks easily for improved scalability; improving Managed Beans alignment, including transactional interceptors; and delivering transactional applications with choice and flexibility.
- Improve usability through annotations and Contexts and Dependency Injection (CDI) Beans support and significantly reduces the code required to send and receive messages

Accelerating development and deployment of Java microservices

Liberty provides starting points, rules of engagement, and tools to help users create net new Java microservices apps. Enhancements to Liberty microservices offerings include:

- Liberty App Accelerator: Liberty App Accelerator is a service hosted on Bluemix that gives users a starting point to build Java microservices apps using Liberty. It now has a fresh interface and gives developers a menu-driven approach to create Java based microservices using different technologies. Liberty App Accelerator includes technology types such as Spring Boot and Watson. The resulting project can be deployed locally or on Bluemix.
- Game On! A microservices app from scratch: IBM provides best practices and methodologies for creating a new microservices application. Game On! is an exemplar application that helps users explore basic and advanced

microservices concepts. Game On! now includes support for Logmet, LogStash, and apiDiscovery.

- New microservice section on IBM Cloud Architecture Center: The microservice section in the IBM Cloud Architecture Center is dedicated to exploring microservices. The site serves as a reference for users to leverage the IBM Cloud that provides the run time and services for deploying microservices applications that are resilient, agile, and scalable. In this site, users can explore and experiment with microservices architecture patterns and technologies by building services to extend Game On!

WebSphere Application Server Developer Tools enhancement

WebSphere Application Server Developer Tools are enhanced to support Java 8 and the full range of programming models available on WebSphere traditional, which include the Java EE 7 Web Profile and Full Platform.

Introducing WebSphere Connect capabilities for ease of adoption of API economy

WebSphere Connect is a collection of capabilities provided by WebSphere Application Server traditional and Liberty that helps you turn your WebSphere business assets into APIs. These capabilities can enable you to easily produce and consume APIs and connect to and from the hybrid cloud to rapidly extend the value of your application investments.

Building on the API and hybrid cloud capabilities delivered in the previous WebSphere Application Server Continuous Delivery, WebSphere Connect adds:

- Expanded WebSphere Application Server Developer Tools support for creating Swagger API documentation with further JSON validation and improvements to the generation of client-side code to consume APIs
- Seamless integration between your on-premises Liberty applications and IBM dashDB™, a fully-managed cloud data warehouse, purpose built for analytics

The latest versions of WebSphere Application Server include IBM API Connect Essentials, with IBM Support and increased API call limits. Now, not only is it easy to create, discover, and publish APIs, WebSphere provides an end-to-end API management solution right out of the box. It delivers a turnkey solution for entering the new API economy.

Migration enhancements

The WebSphere Migration Toolkit is enhanced to migrate applications from previous versions of WebSphere to WebSphere Application Server 9.0 through both source and binary scanning. It helps detect and mitigate issues related to:

- WebSphere API removals.
- WebSphere API deprecations.
- API behavior changes when moving to the latest Java EE 7 support. Java EE 7 migration is optional for JPA and JAX-RS.
- Java 8 migration support.

Source scanning tool enhancements include:

- Migration of applications from competitive application servers to WebSphere Application Server 9.0
- Support for Maven Eclipse projects

The design and usability of the binary scanner reports also are enhanced.

WebSphere Application Server configuration migration tools move the traditional configuration from version 7.0, version 8.0, and version 8.5.5 to version 9.0. Enhancements include:

- Simplified migration support for WebSphere Virtual Enterprise and Compute Grid. WebSphere Application Server Supports these features as integrated components of version 8.5.5 to version 9 or as installed stack projects on version 7 and version 8.
- New clone migration strategy supported.
- New AppInstaller migration tool to replace install_all_apps.jy.
- New migration properties file to control migration options.

Liberty enhanced with single management interface for both Java and Node.js across a hybrid topology

As businesses demand that IT supports modern applications at a faster pace to meet the requirements of engaging applications for social and mobile, developers are increasingly adopting a DevOps mindset. They are turning to composing applications from multiple languages, such as Java and Node.js, and using container technologies to gain freedom from being tied to a single vendor, platform, or enterprise environment. These modern application workloads are typically characterized by unpredictable demand surges and require subsecond response times that in turn require IT to provide additional capacity on demand. To meet these demands, IT is increasingly turning to extending their on-premises capacity with an on-demand capacity available from cloud vendors. This creates a hybrid topology of polyglot applications and servers across a hybrid environment. Managing these polyglot applications securely and intelligently in production requires sophisticated tools.

WebSphere Application Server provides a single integrated interface for polyglot applications and servers. Now, with the combination of Liberty's Collective feature and WebSphere Administration Center, IT administrators can easily manage large-scale topology that comprises WebSphere Java and Node.js applications and servers, deployed across bare metal, Docker container, or virtual machine (VM), on-premises or in the cloud, through a single interface.

The key features include:

- An administration center for visualization and operational control over both Java and Node.js applications
- Scalable clustering for Java applications
- Dynamic routing support through a WebSphere Application Server plug-in for Java and Node.js applications
- Scriptable deployment for both Java and Node.js applications

Security enhancements

WebSphere Application Server traditional and Liberty both support security enhancements defined in the Java EE7 specification. Additionally, Liberty Repository contains several security features beyond Java EE7. New enhancements include:

- Oauth bearer token propagation: This enhancement enables a client to pass an Oauth token when calling a downstream service through HTTP or HTTPs.
- Security Assertion Markup Language (SAML) support for token propagation to Java API for RESTful Services (JAX-RS) endpoints. This enhancement enables an external authentication proxy to pass SAML tokens directly to a JAX-RS endpoint or for a client to pass SAML token directly to a downstream JAX-RS endpoint.
- Usability improvements:
  - Java EE application roles are automatically mapped to a group of the same name in the user registry if no binding is present. This eliminates the requirement to specify bindings when role names are the same as group names.
  - User registry configuration is now optional when not needed; for example, when custom or external authentication is configured.
- Custom password encryption enhancements include:
  - Support for custom encryption in the security utility command line tool

– New API for password encryption and decryption

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the Product accessibility information website.

Section 508 of the US Rehabilitation Act

IBM Web Enablement for i, V1.1 is capable as of June 24, 2016, when used in accordance with IBM 's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be found on the Product accessibility information website.

Reference information

For more information, refer to Software Announcement 216-264, dated June 7, 2016.

Availability of national languages

Translation information, if available, can be found at the Translation Reports website.

Program number

Program number	VRM	Program name
5733-WE3	V1.1	IBM Web Enablement for i
5733-NKY	V5.2	Remove Keys/ePOEs for Transferred Software

Product identification number

Not applicable.

Offering Information

Product information is available on the IBM Offering Information website.

More information is also available on the Passport Advantage and Passport Advantage Express website.

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[(R)] ID and password are required (use IBM ID).

BP Attachment for Announcement Letter 216-298

Publications

The latest product documentation for WebSphere Application Server 9.0 is found in IBM Knowledge Center.

IBM Knowledge Center is the new home for IBM product documentation. It brings IBM 's technical publications together in a single location, and replaces over 800 individual product Information Centers. IBM Knowledge Center simplifies the user experience, improves search, and refines the overall experience with other enhancements. Locate the desired WebSphere Application Server offering from the product list to obtain the product documentation.

You can find information on installing the continuous delivery features in the WebSphere Application Server product documentation. No hardcopy publications are shipped with this product. Using IBM Knowledge Center, users can define collections and produce custom PDF documents for their collections.

For optimal viewing of this documentation, browser support for JavaScript™ and related technologies is required.

Services

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, go to the IBM Software Services website.

Technical information

Specified operating environment

Hardware requirements

Web Enablement for i, V1.1 is supported on systems that support IBM i 7.1, or later. Refer to the IBM System to IBM i maps website for details.

For up-to-date information on all types of code levels needed for support of a particular feature, refer to the IBM Prerequisite website.

Software requirements

For specific software requirements, see the Memo to Users at IBM Knowledge Center.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Limitations

Additional information can be found on the License Information documents found on the IBM Software License Agreement website.

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement. Read about the Electronic Support portfolio of tools on the IBM Support Portal website.

You can also access the IBM Support Portal page and the online Service requests and PMRs tool for more support.

Planning information

Packaging

This offering delivers physical media or electronically.

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

IBM i uses the security and auditability features of IBM i.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

No-charge features

Web Enablement for i (5733-WE3)

Feature description	Feature number
Web Enablement for i	5819
1st Non-Processor ePoE Upg Reg	6001
Physical Media Registration	6486
Development Demo Reg	6485
Electronic Delivery	3450
Feature description	**Feature number**
Delivery without Machine Readable Material	3471
Delivery without Publications	3470
Feature description	**Feature number**
Electronic Delivery Only	3453
Expedite Orders, Customer Pays Charge	3446

Remove Key's/ePoE's Transferred Software (5733-NKY)

Feature description	Feature number
Web Enablement for i	2863

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.

Charge metric

Program name	PID number	Charge metric
IBM Web Enablement for i	5733-WE3	Charged per machine
Remove Key's/ePoE's	5733-NKY	No Charge

Web Enablement for i (5733-WE3)

Feature description	OTC feature number
IBM Web Enablement for i	0001

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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[R] Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

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License Information number

Z125-3301

This program's License information will be available for review on the IBM Software License Agreement website.

Limited warranty applies

Yes

Limited warranty

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

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

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

Money-back guarantee

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

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

Volume orders (IVO)

Yes. Contact your IBM representative.

Passport Advantage applies

No

Usage restriction

Yes.

See the License Information documents page on the IBM Software License Agreement website for more information.

Software Subscription and Support applies

Yes. Software Subscription and Support, also referred to as Software Maintenance, is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance by telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, see the IBM Software Support Handbook. Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, go to the Passport Advantage and Passport Advantage Express website.

IBM Operational Support Services - SoftwareXcel

Yes

System i Software Maintenance applies

Yes

Variable charges apply

No

Educational allowance available

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

Statement of good security practices

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

Important: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

IBM Electronic Services

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to organizations that have IBM Systems. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support, all at no additional cost to you.

Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type smitty esa_main, and select Configure Electronic Service Agent. In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, go to the IBM Support Portal website.

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for organizations that are Electronic Service Agent tool-enabled to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent^{TM} tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the symptoms, diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean human intervention is not required to report errors.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool is designed to securely transmit either through the Internet (HTTPS or VPN) or modem to provide organizations a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into an organization's system.

For additional information, go to the http://www.ibm.com/support/esa website.

More accurate reporting: Because system information and error logs are automatically uploaded to the IBM Support Center in conjunction with the service request, you are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, you can view system and support information in the *My Systems and Premium Search* sections of the IBM Electronic Support page.

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with your IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, you are able to see search results that apply specifically to your systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or go to the IBM Support Portal website.

Prices

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

Web Enablement for i (5733-WE3)

Description	Feature number	OTC
IBM Web Enablement for i	0001	

Current prices can be found on the IBM Support Portal website.

Pricing terms

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

ENUS-216-298-LIST_PRICES_2016_06_07.PDF

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