



IBM InfoSphere Streams V1.2.0 supports highly complex heterogeneous data analysis

Table of contents

1 Overview	6 Publications
2 Key prerequisites	6 Technical information
2 Planned availability date	9 Ordering information
2 Description	10 Terms and conditions
5 Product positioning	13 Prices
6 Program number	13 Order now
	14 Corrections

At a glance

IBM® InfoSphere Streams V1.2.0 delivers:

- Developer tools and clustered runtime software for high performance, low latency streaming applications using structured and unstructured data streams
- Passport Advantage® offering, which includes:
 - One year telephone support, including defect and usage support
 - Worldwide local support
 - 24x7 Severity 1 response time
 - Subscription, which includes new releases of InfoSphere Streams
- Improved performance via InfiniBand support
- High availability via runtime restart and recovery services
- Enhanced usability in InfoSphere Streams Studio
- Improved security with trusted and vetted zones in runtime as well as pluggable authentication
- Financial Services Toolkit with multiple new features, including adapters, analytics, and sample programs
- Mining toolkit that can reuse Predictive Model Markup Language (PMML) models to perform mining in real time against streaming data

To order, contact your IBM representative, an IBM Business Partner, or the Americas Call Centers at 800-IBM-CALL.

Reference: YE001

Overview

IBM InfoSphere Streams enables continuous and high-speed analytics on massive volumes of structured and unstructured data in motion to help accelerate business insights and key decisions. InfoSphere Streams provides a highly scalable runtime environment as well as a wide range of intuitive tooling to help users develop powerful analytic applications that ingest, filter, analyze, and correlate information from single or multiple streams of data.

IBM InfoSphere Streams V1.2.0 delivers a range of new features and functions to enhance performance, usability and productivity, high availability, security, consumability and relevance.

InfoSphere Streams is comprised of the following basic components:

- InfoSphere Streams Studio: An Integrated Development Environment (IDE) based on Eclipse 3.4, which may be used by developers to develop Streams applications
- InfoSphere Streams Runtime: Provides extreme scalability and can be deployed on a single server or a cluster of servers
- Toolkits and adapters: Includes StreamSight, ODBC drivers, high speed solidDB drivers, WebSphere® Front Office, Internet RSS, HTTP and FTP, file I/O, TCP/IP communication adapters

Key prerequisites

Refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

February 26, 2010: Electronic software delivery

March 26, 2010: Media and documentation

Description

Data volumes are expected to double every two years over the next decade with over 80% of the growth resulting from unstructured data such as e-mail, voice, and video. Also, the global economic slowdown is resulting in organizations seeking to become more nimble with their operations and more innovative with their decisions. In the face of exploding data volumes and data types, these organizations are struggling to make truly real time as well as effective decisions to gain competitive advantage. Existing tools and technologies that aid decision making by the line of business first require data to be recorded on a storage device and queries run after-the-fact to detect actionable insights. Most of these technologies are further limited in their ability to handle non-relational and non-traditional data types for better business insight. Savvy businesses are fast realizing that the time lost and data sources ignored in this process can lead to missed opportunities that might be the difference between success and failure.

InfoSphere Streams addresses this gap effectively by providing a state-of-the-art platform on which to run powerful in-motion analytics on a wide variety of relational and non-relational data types. It provides a state-of-the-art infrastructure to support highly complex heterogeneous data analysis with exceptional performance, and more efficiently interoperates with existing application infrastructures. Its runtime environment can scale from a single server to thousands of compute nodes seamlessly based on data volumes or analytics complexity.

InfoSphere Streams radically extends the state of the art in information processing by simultaneously addressing several technical challenges including:

- Sub millisecond response time to events and changing requirements
- Continuous analysis of data at rates significantly higher than existing systems
- Ability to seamlessly extend existing applications with new analytics
- Ability to deploy existing data mining models in InfoSphere Streams application for real-time insights

InfoSphere Streams has attained initial success with a number of commercial and scientific applications across a spectrum of industries such as healthcare, financial services, law enforcement, environment and water quality monitoring, and manufacturing.

IBM InfoSphere Streams V1.2.0 supports your efforts to enhance performance, usability and productivity, high availability, security, and consumability by delivering a range of new features and functions described below.

Performance

InfoSphere Streams V1.2.0 now incorporates WebSphere MQ Low Latency Messaging (LLM) transport technology. The WebSphere MQ LLM technology provides InfiniBand support, which enables InfoSphere Streams applications to handle extremely high data throughput with lower latencies, reduced latency variability, and lower central processing unit (CPU) consumption. Note that WebSphere LLM support will not be exposed externally.

Usability and productivity

InfoSphere Streams V1.2.0 includes a wide array of enhancements to usability and developer productivity.

- InfoSphere Streams Processing Language editor:
 - Cascade any changes made to InfoSphere Stream name and InfoSphere Stream properties to all occurrences and references to the name
 - Prompt completion proposals for commonly used InfoSphere Streams Processing Language constructs
 - Preset all the preprocessor and compiler arguments when a InfoSphere Streams application is imported or exported
- InfoSphere Streams Studio will now enable editing and compilation of applications that use both InfoSphere Streams Processing Language and Perl. Using both InfoSphere Streams Processing Language and Perl in applications simplify application development and the ability to scale out applications because you can now decide, at compile time, how many instances of a particular operator you need and how the data will be partitioned.
- Enhancements to Stream Studio Live Viewer (StreamSight) that help:
 - Simplify the visual presentation of the graph by providing ability to hide, collapse, and expand selected applications (job), hosts, and processing elements.
 - Rapidly identify application components that are exhibiting interesting behaviors (for example, terminated, high CPU utilization) and display relevant details such as application and InfoSphere Stream names, throughput metrics, CPU utilization, and PE state.
- Installation improvements that include cluster, environment, and dependency checking. InfoSphere Streams now provides a dependency checker to verify that the machines where you intend to run the InfoSphere Streams applications have the correct operating system services and are at the right support level. Verifying this helps support the proper installation and execution of InfoSphere Streams.

High availability features

InfoSphere Streams V1.2.0 introduces several new features that enhance high availability and redundancy. InfoSphere Streams V1.2.0 enables administrators to add or remove processor nodes to or from the cluster. The ability to seamlessly add or remove nodes to or from the cluster lets administrators perform necessary maintenance on the operating system or on data streams without shutting down the InfoSphere Streams application. This can help improve overall availability of the environment. Also, in InfoSphere Streams V1.2.0, when the management nodes (that control the system) fail, the application nodes will continue to execute the InfoSphere Streams applications and the management nodes can be restarted by the administrators at a later time. Features such as these are aimed at enhancing high availability aspects related to InfoSphere Streams.

Stronger security

Security enhancements such as:

- Support for Security-Enhanced Linux® (SELinux) that helps provide a mechanism for supporting access control security policies, including U.S. Department of Defense style mandatory access controls, through the use of Linux Security Modules (LSM) in the Linux kernel.
- Pluggable Security Services that provide the ability to plug in other authentication services, for example smart cards, when authenticating users to the system.
- Secure Streams Web Services (SWS) command and control functions. (SWS is a browser-based environment from where users can start, stop, monitor, and perform Streams related operational functions.)

Enhanced support for financial services domain

In order to make InfoSphere Streams more relevant in the financial services industry, several new features have been added to V1.2.0. These features are intended to provide benefits such as faster time to value, better performance, and greater simplicity. They are:

- A set of industry-specific adapters, each implemented as an InfoSphere Streams Processing Language operator, that allow InfoSphere Streams applications to interoperate with many generic financial services infrastructure and external protocols.
 - Bi-directional connectivity between InfoSphere Streams applications and Financial Information eXchange (FIX) version 4 gateways for order execution, confirmation, and other tasks performed through the FIX protocol.
 - Bi-directional connectivity between InfoSphere Streams applications and the WebSphere Front Office platform, including support for its Reliable Multicast Messaging (RMM) option for consumption of market data feeds, use of order books, and access to other functions provided by WebSphere Front Office.
 - Capability to send messages via WebSphere MQ LLM for access to a low-latency message-oriented middleware platform.
- A set of built-in functions and analytics that are routinely used for typical trading applications in the financial services domain. They are:
 - InfoSphere Streams Processing Language operators who help integrate InfoSphere Streams applications with QuantLib - a popular open-source financial analytics package. The InfoSphere Streams operators provide access to two QuantLib "engines" that compute valuations for European-style and American-style Equity Options from within a InfoSphere Streams application.
 - A set of library functions accessible from InfoSphere Streams Processing Language that helps calculate a set of equity option derivative values known as "The Greeks", such as delta, theta, rho, vega, gamma, vanna, zomma, and charm.
 - A set of library functions that help calculate theoretical put and call option values based on Black-Scholes options valuation model. These functions further demonstrate how customer proprietary analytic functions, outside of InfoSphere Streams environment, can be accessed from a InfoSphere Streams application.
- The Financial Services Toolkit that also includes two "starter" applications to illustrate how InfoSphere Streams can be used to develop powerful proprietary applications for two popular High-Frequency Trading (HFT) scenarios namely Equities Trading and Options Trading. Each application is designed to be a starting point, providing a more easily extensible model or template for further customization based on proprietary analytics.

Better relevance within a data warehouse environment

A new mining toolkit within InfoSphere Streams V1.2.0 supports scoring of data models that adhere to the Predictive Model Markup Language (PMML). PMML analytic models are vendor agnostic and are currently supported by over 30 vendors. By providing the ability to score models in real time, you can reuse existing tried and tested analytic models within the InfoSphere Streams processing domain and can get alerted to anomalous patterns much earlier than before.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested via the IBM Web site

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

Accessibility features supported by InfoSphere Streams V1.2:

- Supports interfaces commonly used by screen readers
- Can be operated using only the keyboard
- Supports customization of display attributes such as color, contrast, and font size
- Communicates all information independently of color
- Provides documentation in an accessible format
- Allows the user to access the interfaces without inducing seizures due to photosensitivity

Section 508 of the U.S. Rehabilitation Act

IBM InfoSphere Streams is capable as of March 26, 2010, 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 U.S. Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested on the following Web site

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

Product positioning

IBM InfoSphere Streams is a high performance platform in the Real Time Analytic Processing (RTAP) market segment that also highlights a significant evolution for Business Intelligence market. RTAP is characterized by huge volumes of information which require complex analytics and must be processed very quickly, that is, in less than a millisecond.

InfoSphere Streams can extend existing Business Intelligence offerings, such as Cognos and OLAP, by offering lower latency processing with its advanced runtime.

A key difference between other Business Intelligence offerings and InfoSphere Streams is that other offerings typically first store data in relational databases and only then analyze the data. InfoSphere Streams analyzes the data as it is streaming by, prior to persisting data, to help provide lower latency analytics. This also supports persisting only pertinent information, which is important when processing unstructured data such as audio or video. Unstructured data can be summarized or modeled to structured data for further analysis.

The RTAP market overlaps the complex event processing market place, where IBM leads with WebSphere Business Events offerings. InfoSphere Streams extends the WebSphere Business Events offering by being able to process more events per second by an order of magnitude, and also by being able to process unstructured data such as video and audio.

Availability of national languages

Product description	Language	GA date
IBM InfoSphere Streams V1.2.0	English	March 26, 2010

Program number

Program number	VRM	Program name
5724-Y95	1.2.0	IBM InfoSphere Streams V1.2

Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage Web site

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

Publications

No hardcopy publications are shipped with this product. However, a softcopy of the Installation and Administration Guide, and Programming Guide publications are shipped with this product

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Technical information

Specified operating environment

Hardware requirements

- X86 32-bit or 64-bit systems with a minimum of 500 MB memory
- 2 GB memory to run simple applications such as the Commodity Purchasing Sample Application that is included with InfoSphere Streams

Software requirements

Red Hat Enterprise Linux V5.3 or V5.4

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.

Compatibility

InfoSphere Streams V1.2 is upwardly compatible with prior releases of InfoSphere Streams.

Limitations

Maximum of 125 servers and blades supported in a single installation cluster.

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

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

Performance considerations

Performance of InfoSphere Streams applications is dependent on many things, including, but not limited to:

- Application design
- Analytic complexity
- Server hardware, including number of cores, CPU speed, and memory size
- Server cluster communications bandwidth
- Number of InfoSphere Streams jobs running simultaneously

Using quadcore x86 3.0 GHz machines in a cluster, 256 byte messages, and an application with simple analytics, InfoSphere Streams achieved over 400,000 messages per second throughput on a single machine, and over 1.3 million messages per second on 6 machines with an average latency was under 120 microseconds on Ethernet networks. Official performance metrics are pending for the embedded higher performance WebSphere MQ LLM transport with Ethernet and Infiniband.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems, and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Planning information

Customer responsibilities

Successful application operation and management of InfoSphere Streams is the responsibility of the user. Examples of those responsibilities include:

- Confirming the validity of the proposed equipment and programs
- Developing appropriate system procedures
- Incorporating protective measures to safeguard the privacy of data from unauthorized modification, destruction, or disclosure
- Incorporating sufficient checkpoints, balances, and controls into the application design to satisfy accuracy, restart, and audit requirements
- Establishing adequate backup contingency plans
- Preparing adequate documentation
- Providing qualified personnel to obtain the desired results

Installability

This release has simplified installation with improvements in cluster, environment, and dependency checking. Installation can be performed once on a shared file system, and then all computers in the cluster loaded from this single installation.

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 (also referred to as Software Maintenance) 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 (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

Packaging

Note: InfoSphere Streams includes development tools (InfoSphere Streams Studio), runtime (InfoSphere Streams Runtime), and toolkits (mathematics, text, mining, and financial markets toolkits).

IBM InfoSphere Streams V1.2.0

- IBM InfoSphere Streams - DVD

Security, auditability, and control

IBM InfoSphere Streams uses the security and auditability features of the Linux operating system and optionally may use Security-Enhanced Linux (SELinux).

Security and auditability features of IBM InfoSphere Streams are:

- Pluggable authentication
- Optional labeling of data exiting InfoSphere Streams

Some of the security functions of IBM InfoSphere Streams depend on Security Enhanced Linux.

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

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Product information

Licensed function title	Product group	Product category
IBM InfoSphere Streams	IBM InfoSphere Streams	IBM InfoSphere Streams
Program name	PID number	Charge unit description
IBM InfoSphere Streams	5724-Y95	Per Processor value Unit (PVU)

Charge metrics definitions

Processor Value Unit (PVU)

PVU is a unit of measure by which this software product can be licensed. PVU entitlements are based on processor technology (defined within the PVU table* by processor vendor, brand, type and model number). IBM continues to define a processor, for purposes of PVU-based licensing, to be each processor core on a chip. Each software product has a unique price per PVU. To determine the total cost of deploying an individual software product in a specific hardware environment, you must take the following steps:

1. For each processor core in the hardware environment on which the software product is to be licensed, determine the PVU requirement based on its processor technology per the PVU table*.
2. Add the PVU requirements for all processor cores in the hardware environment.
3. Multiply the software product's price per PVU by the total number of PVUs required as determined in step 2 above.

PVU entitlements are specific to a software product and may not be exchanged, interchanged, or aggregated with PVU entitlements of another software product.

Unless you have deployed eligible sub-capacity products according to the sub-capacity* terms, you must obtain PVU Proof of Entitlements (PoEs) for the maximum number of activated** physical processor cores in the hardware environment made available to or managed by the software product. This is also referred to as full capacity licensing.

* For information regarding PVU and sub-capacity licensing, including the latest PVU table, visit

http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

** Activated processor cores are physical processor cores that are available for use in a server. They include processor cores:

- That are activated (available for use) when the server is shipped by the manufacturer
- That are activated subsequently through activation codes purchased from the server manufacturer by the customer
- Whose capacity can be limited by the customer through virtualization technologies, operating system commands and BIOS settings

Passport Advantage program licenses

IBM InfoSphere Streams

Part description	Part number
IBM InfoSphere Streams	
IBM InfoSphere Streams Per Processor Value Unit (PVU) Annual SW S&S Rnw1	E08JULL
IBM InfoSphere Streams Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D0CGFLL
IBM InfoSphere Streams Per Processor Value Unit (PVU) SW S&S Reinstate 12	D0CGLL

Passport Advantage supply

Program name/description	Part number
IBM InfoSphere Streams V1.2.0	
IBM InfoSphere Streams V1.2.0 English DVD Media Pack	BB143EN

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

IBM InfoSphere Streams V1.2.0

Entitled maintenance offerings description	Media packs description	Part number
IBM InfoSphere Streams per Processor Value Unit	IBM InfoSphere Streams V1.2.0 English DVD Media Pack	BB143EN

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Licensing

IBM International Program License Agreement including the License Information document and PoE govern your use of the program. PoEs are required for all authorized use.

Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

License Information form number

Program name	Program number	Form number
IBM InfoSphere Streams	5724-Y95	L-JPRE-7YFSNC

The program's License Information will be available for review on the IBM Software License Agreement Web site

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

Limited warranty applies

Yes

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. Consult the IBM Software Support Handbook for further information at

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

Program technical support

Technical support of a program product will be available for a minimum of five years from the general availability date, as long as your Software Maintenance is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Maintenance also provides you with access to updates, releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

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 programs acquired under the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.

Authorization for use on home/portable computer

The program may be stored on the primary machine and another machine, provided that the program is not in active use on both machines at the same time. You may not copy and use this program on another computer without paying additional license fees.

IBM InfoSphere Streams: No

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage Web site at

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

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Usage restriction

Yes

For additional information refer to the License Information Document that is available on the IBM Software License Agreement Web site

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

International Passport Agreement**Software Subscription and Support (Software Maintenance)**

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 (also referred to as Software Maintenance) 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 (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

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

Software Subscription and Support (also referred to as 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 the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage Web site at

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

Other terms**System i Software Maintenance applies**

No

Educational allowance available

Not applicable.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service

and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

Prices

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

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner, or authorized IBM Business Partner for Software ValueNet®, if applicable. Additional information is also available at

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

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<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

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Reference: YE001

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<http://www.ibm.com/planetwide/us/>

Corrections

(Corrected on February 24, 2011)

Deleted information from the Product positioning section.