



IBM InfoSphere Streams V1.2.1 offers new Resource Value Unit pricing and offers a Developer Edition

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At a glance

IBM® InfoSphere™ Streams V1.2.1:

- Offers new pricing models, Resource Value Units (RVU) based on cores and Authorized User
- Adds IBM InfoSphere Streams Developer Edition V1.2.1 for developing and testing of applications

For ordering, contact your IBM representative or an IBM Business Partner. For more information, contact the Americas Call Centers at 800-IBM-CALL (426-2255).

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.

With V1.2.1 of InfoSphere Streams, you get two new pricing models, **Resource Value Units** (RVU) based on activated processor cores and **Authorized User**.

The RVU licensing offers price benefits by enabling a lower cost of incremental growth. As specified in the InfoSphere Streams RVU table, the number of licenses required per activated processor core decreases after reaching specified volume. For example, after the first 10 activated processor cores, subsequent activated processor cores require fewer RVU licenses, effectively lowering the price per core. Refer to the Resource Value Unit (RVU) section to view the RVU table.

IBM InfoSphere Streams for Non-Production Environment V1.2.1 also uses RVU licensing. This new offering targets centralized development environments where per processor core pricing is desirable instead of Authorized User.

IBM InfoSphere Streams Developer Edition V1.2.1, a new offering, delivers the ability to develop and test applications using per Authorized User pricing. InfoSphere Streams may be installed on any number of computers or servers and each Authorized User may have simultaneous access to any number of instances of InfoSphere Streams at one time for development and testing. This pricing model

facilitates purchasing InfoSphere Streams for deployment on both laptops for developers and in centralized development clusters.

For full details about IBM InfoSphere Streams V1.2, refer to Software Announcement [210-037](#), dated February 23, 2010.

Key prerequisites

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

Planned availability date

October 29, 2010: Electronic availability

November 19, 2010: Media availability

Description

Accessibility by people with disabilities

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

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

Accessibility features supported by InfoSphere Streams V1.2.1:

- 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 November 19, 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 website

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

Product positioning

IBM InfoSphere Streams V1.2.1 is a high performance platform in the Real Time Analytic Processing (RTAP) market segment that also highlights a significant evolution for the 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.

Reference information

Refer to Software Announcement [210-037](#), dated February 23, 2010.

Availability of national languages

Product description	Language	GA date
Developer Edition v1.2.1	English	November 19, 2010
IS Streams Non-Prod Environ v1.2.1	English	November 19, 2010
InfoSphere Streams v1.2.1	English	November 19, 2010

Program number

Program number	VRM	Program name
5724-Y95	1.2.1	IBM InfoSphere Streams v1.2

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

Publications

No 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 **Usage restrictions** in the [Terms and conditions](#) section of this announcement, or to the license information document that is available on the IBM Software License Agreement website

<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 that 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.

Direct Passport Advantage support details

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 V1.2.1

- 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 Environment Linux (SE Linux).

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.

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
IBM InfoSphere Streams Developer Edition	IBM InfoSphere Streams	IBM InfoSphere Streams
IBM InfoSphere Streams for Non-Production Environment	IBM InfoSphere Streams	IBM InfoSphere Streams
Program name	PID number	Charge unit description
IBM InfoSphere Streams	5724-Y95	Per Resource Value Unit
IBM InfoSphere Streams Developer Edition	5724-Y95	PA Per Authorized User
IBM InfoSphere Streams for Non-Production Environment	5724-Y95	Per Resource Value Unit

Charge metrics definitions

Authorized User

Authorized User is the unit of measure by which this program is licensed. An Authorized User is an individual (named or unnamed) within or outside of your enterprise. The program may be installed on one or more computers or servers and accessed by the number of users authorized by the Proof of Entitlement (PoE). You must have an entitlement for each Authorized User accessing the program or any program component in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means.

Resource Value Unit (RVU)

RVU is the unit of measure by which this program is licensed. RVU entitlements are based on the quantity of a specific designated measurement for the given program. A PoE must be obtained for the appropriate number of RVUs required for your environment as defined by the specific program terms. The RVU entitlements are specific to the program and may include, but are not limited to the following: client devices, data source records, messages, and servers, and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program. To understand these benefits of RVU licensing, and to determine how many RVUs to obtain for the program, contact your IBM representative.

RVU table

Minimum cores	Maximum cores	RVUs per core
1	10	600
11	100	300
101	250	150
251	500	100
501	1,000	75
1,001	Max	25

Passport Advantage program licenses

IBM InfoSphere Streams

Part description	Part number
IBM InfoSphere Streams for Non-Production Environment	
IBM InfoSphere Streams Per Resource Value Unit Annual SW S&S Rnw1	E0AY5LL
IBM InfoSphere Streams Per Resource Value Unit Lic + SW S&S 12 Mo	D0H59LL
IBM InfoSphere Streams Per Resource Value Unit SW S&S Reinststate 12 Mo	D0H5ALL

IBM InfoSphere Streams

Part description	Part number
IBM InfoSphere Streams	
IBM InfoSphere Streams Per Resource Value Unit Annual SW S&S Rnw1	E0AXCLL
IBM InfoSphere Streams Per Resource Value Unit Lic + SW S&S 12 Mo	D0H3YLL
IBM InfoSphere Streams Per Resource Value Unit SW S&S Reinststate 12 Mo	D0H3ZLL

IBM InfoSphere Streams

Part description	Part number
IBM InfoSphere Streams Developer Edition	
IBM InfoSphere Streams PA Per Authorized User Annual SW S&S Rnw1	E0AY6LL
IBM InfoSphere Streams PA Per Authorized User Lic + SW S&S 12 Mo	D0H5BLL
IBM InfoSphere Streams PA Per Authorized User SW S&S Reinststate 12 Mo	D0H5CLL

Passport Advantage supply

Program name/description	Part number
Developer Edition V1.2.1	
Developer Edition Linux for System x® 86Series Intel-based & AMD-based serv	BB164EN
IS Streams Non-Prod Environ V1.2.1	
IS Streams Non-Prod Environ InfoSphere Streams V1.2.1	BB165EN
InfoSphere Streams Linux for System x 86Series Intel-based & AMD-based ser	BB163EN

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.

InfoSphere Streams V1.2.1

Entitled maintenance offerings description	Media packs description	Part number
IBM InfoSphere Streams per core Resource value Unit	InfoSphere Streams Linux for System x 86Series Intel-based & AMD-based ser	BB163EN

IS Streams Non-Prod Environ V1.2.1

Entitled maintenance offerings description	Media packs description	Part number
IBM InfoSphere Streams for Non-Production Environment per Resource Value Unit	IS Streams Non-Prod Environ	BB165EN

Developer Edition V1.2.1

Entitled maintenance offerings description	Media packs description	Part number
IBM InfoSphere Streams Developer Edition per Authorized User	Developer Edition Linux for System x 86Series Intel-based & AMD-based serv	BB164EN

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and 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 website

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

Limited warranty applies

Yes

Limited warranty

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

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional

charge. For further information, consult the IBM Software Support Handbook found at

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

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Program technical support

Technical support of a program product version or release 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 (modifications or fixes), 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

For clarification, note that 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 the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

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Usage restriction

Yes. For additional information refer to the License Information Document that is available on the IBM Software License Agreement website

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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.

While your Software Subscription and Support (also referred to as 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, to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, consult your IBM Software Support Handbook at

<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.

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<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

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>

Business Partner information

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