IBM InfoSphere Streams V3.2, a highly scalable software infrastructure, performs in-motion analytics on relational and non-relational data

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At a glance

IBM® InfoSphere® Streams V3.2 delivers the following new features and functions:

- Usability
  - Remote Streams Studio for Windows™ and Linux™
  - User-defined parallelism
  - Java™ simplification
- Enterprise readiness
  - Operational Decision Management adapter for business rules
  - Access to application data using Representational State Transfer (REST)
- Enterprise integration
  - MQ Telemetry Transport (MQTT) adapters
  - Big SQL support
  - HP Vertica Analytic Database support

Overview

IBM InfoSphere Streams V3.2 (referred to as Streams) delivers a highly scalable, agile software infrastructure to perform in-motion analytics on a wide variety of relational and non-relational data types that enter the enterprise at unprecedented volumes and speed, and from thousands of real-time sources. Streams V3.2 includes new features and functions designed to instantly analyze and fuse massive volumes of data and integrates with existing infrastructures. It delivers new capabilities to improve usability, support enterprise readiness, and streamline enterprise integration.

Streams V3.2 includes the following new features and functions:

- Usability
  - Remote Streams Studio for Windows and Linux
  - User-Defined Parallelism
  - Java simplification
- Enterprise readiness
  - Operational Decision Management adapter for business rules
- Access to application data using Representational State Transfer (REST)
- Enterprise integration
  - MQTT adapters
  - Big SQL support
  - HP Vertica Analytic Database support

**Key prerequisites**

Refer to the Hardware requirements and Software requirements sections.

**Planned availability date**

October 25, 2013: Electronic availability

November 22, 2013: Media availability

Availability of Programs with encryption algorithm in France is subject to French government approval.

Cryptography in this product is limited to password encryption, authentication or digital signature.

Refer to the Availability of national languages section for national language availability.

**Description**

To stay competitive, organizations need to harness the power of all enterprise data and adapt in real time. The need for continuous, real-time analysis of extremely large structured and unstructured data volumes requires a new approach. InfoSphere Streams delivers innovative technology and enables organizations to process extremely large data volumes at unprecedented speeds. It includes new capabilities to improve usability, support enterprise readiness, and streamline enterprise integration.

**New capabilities in Streams V3.2**

**Usability**

Streams comes with an impressive suite of comprehensive development tools, sophisticated analytics toolkits, and accelerators, all designed to make it easier for users to develop Streams applications and work with a variety of data. Streams V3.2 greatly enhances usability with new features and upgrades designed to simplify the user experience.

- Remote Streams Studio for Windows and Linux:
  
  Use Streams Studio natively on a Windows desktop to develop Streams applications. Streams Studio interacts seamlessly with your Linux-based Streams cluster instances to test and deploy applications.

- User-Defined Parallelism:
  
  Simplify development of applications that analyze data in parallel. Developers can replicate any part of an application any number of times to perform parallel processing, and split the streaming records using either round-robin or hash-based algorithms. The amount of parallelism can be specified at compile time or submission time. You can also force parallel channels to run on different hosts to control application performance.

- Java operator model simplification:
Maintain implementation source code and the model together more easily.

- SPL:
  Quickly start developing streams applications with native function written in Java, in addition to C++.

- Visualization simplification:
  Take advantage of a simplified user interface for the Streams console to create charts easily. Specify chart type and view the chart without the need to understand the configuration parameters. Explore sample preview charts to assess changes without opening the console. The advanced chart user will have access to all previous charts and parameters via a chart wizard.

- Enhanced time series toolkit:
  Generate data of various types (sine wave, triangular wave, and more) to use as input for time series operators and applications. You can automatically select the best-suited forecasting algorithm. New compression and nonlinear model operators enhance performance and extend the kinds of analysis that can be performed.

- Installation documentation is now also translated to Russian and French

Enterprise readiness

Streams has always been enterprise-ready, with its scale-out architecture and clustered runtime for near-limitless capacity. Streams 3.2 contains new features that increase the robustness of this real-time analytics processing platform.

- Access application data programatically using REST interfaces from any portion of a Streams application. The data can be displayed or charted using various third-party packages, or in custom user interfaces.

- Operational Decision Management (ODM) rules adapter enables execution of these rules as part of a Streams application. Users can create, add, import, and update ODM rules at runtime without having to restart the Streams application. This is a common requirement for fraud detection applications.

Enterprise integration

Streams is designed to be compatible with a variety of software and tools, making it easy to integrate Streams applications with other software. In Streams 3.2, new adapters and operators further extend Streams integration and make integration quicker and easier.

- MQTT is a machine-to-machine (M2M) and Internet of Things (IoT) connectivity protocol designed as an extremely lightweight publish and subscribe messaging transport. It is useful for connections with remote locations where a small code footprint is required or network bandwidth is at a premium, such as mobile or automotive telematics applications. For more information, visit http://www.mqtt.org

- Big SQL support includes read/write to IBM InfoSphere BigInsights™ Big SQL.

- Database Toolkit adds support for HP Vertica Analytic Database V6.1.1.

Accessibility by people with disabilities

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


Accessibility features supported by InfoSphere Streams V3.2:

- Supports interfaces commonly used by screen readers
- Can be operated using only the keyboard
Product positioning

IBM InfoSphere Streams offers an ultra-high performance analytics platform for real-time analytic processing. Real-time analytic processing (RTAP) extends online analytic processing (OLAP) by doing analysis on data in motion instead of on data at rest to provide higher volume and lower latency analysis. It represents a new evolution in business intelligence and complex event processing (CEP) markets characterized by incredible throughput rates of disparate types of structured and unstructured information that must be processed with millisecond or microsecond latencies using complex correlations and powerful analytics.

A key difference between Streams and other business intelligence offerings, such as OLAP, is that the latter requires data to be at rest before running analytics. However, InfoSphere Streams analyzes data in-motion -- a faster process, since disk storage is not required. This can lead to ultra-low latencies as compared to existing technologies.

Streams can persist data or data subsets as the business demands. In addition, while OLAP offerings are traditionally limited to supporting only structured data, Streams technology can support both structured and unstructured data. While being radically different from existing business intelligence solutions, Streams can efficiently extend and add value to existing business intelligence offerings. For example, Streams can reuse and continually refine existing analytics expressed in Predictive Model Markup Language (PMML) standards.

Streams V3.2 comes standard with several toolkits and accelerators to help provide quicker time to value. These include Financial Toolkit, Data Mining Toolkit, Telecommunications Event Data Analytics, Machine Data Analytics, Social Media Analytics, Messaging Toolkit, Internet, Big Data, Complex Event Processing Toolkit, and Advanced Text Analytics.

Streams serves the complex event processing market, by delivering market leading capabilities and beyond. The complex event processing market is evolving. InfoSphere Streams addresses the next generation requirements with capabilities to read in and process much higher discrete event throughput rates and continuous streams of information, such as audio feeds from hydrophones or video feeds from television with ultra-low latencies. Furthermore, Streams also provides the incremental capabilities to process unstructured data such as audio, video, text, and EKG.

Availability of national languages

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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 hardcopy publications are shipped with this product.

Softcopy publications shipped with this product include:

- Release Notes
- What’s New (Note: This will not be included in the install image, but only available from the information center.)
- Installation and Administration Guide
- IBM Streams Processing Language (SPL) documentation is available within the Information Center at:
  - SPL Introductory Tutorial
  - SPL Compiler Usage Reference
  - SPL Config Reference
  - SPL Specification
  - SPL Operator Model Reference
  - SPL Standard Toolkit Reference
  - SPL Toolkit Development Reference
  - SPL Streams Debugger Reference
  - SPL User-Defined Operators Javadoc-based documentation
    -- Java Operator API for InfoSphere Streams
    -- Deprecated Java Operator API
    -- Samples for the Java Operator API
  - SPL Code Generation and Runtime API documentation (Doxygen-based)
    -- SPL Operator Code Generation API Documentation
    -- SPL Runtime C++ API Documentation
    -- SPL Standard Toolkit Types and Functions
- Studio Installation and User’s Guide
- Getting Started with the IBM InfoSphere Streams Trial
- Financial Services Toolkit
- Mining Toolkit
- Database Toolkit
- Internet Toolkit
- Big Data Toolkit
- Complex Event Processing Toolkit
- Geographic Information Systems Toolkit
- InfoSphere DataStage® Integration Toolkit
- Messaging Toolkit
Technical information

Specified operating environment

Hardware requirements

- x86 architecture (64-bit) or POWER7® architecture 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 V5.6, or later, or V6.1, or later, for x86 architecture hardware
- Red Hat Enterprise Linux V6.2, or later, for POWER7 architecture hardware
- CentOS Linux V5.6, or later, or V6.1, or later, for x86 architecture hardware
- SUSE Linux Enterprise Server (SLES) V11.2, or later, for x86 architecture hardware. SLES does not support SELinux
- Eclipse Platform SDK V4.2.2
- IBM SDK Java Technology Edition V6 or V7 for x86 or POWER7 architecture hardware
- Oracle Java SE V6.0 or V7.0 SDK for x86 architecture hardware
- Firefox V10, or later
- Internet Explorer V9, or later

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 V3.2 is compatible with applications that were developed for use on InfoSphere Streams V3.0 and V3.1.

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

InfoSphere Streams V3.1, using quadcore x86 3.0 GHz machines in a cluster, an application with simple analytics, and WebSphere® MQ Low Latency Messaging using InfiniBand (IB), with 256-byte tuples, achieved a throughput of over one million tuples with just two machines instead of using six machines as in V1.0.

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

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 (database, big data, messaging, text, mining, geospatial, Complex Event Processing, time series, and financial markets toolkits).

IBM InfoSphere Streams V3.2

• IBM InfoSphere Streams - DVD
• IBM DB2® - 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
- PKI (Public Key Infrastructure) Authentication

Some of the security functions of IBM InfoSphere Streams depend on SELinux.

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

**Global Technology Services®**

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

### Ordering information

For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit


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

### Product information

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### Charge metrics definitions

**Authorized User**

Authorized User is a unit of measure by which the program can be licensed. An Authorized User is a unique person who is given access to the program. The program may be installed on any number of computers or servers and each Authorized User may have simultaneous access to any number of instances of the program at one time. Licensee must obtain separate, dedicated entitlements for each Authorized User accessing the program in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned other than for the permanent transfer of the Authorized User entitlement to another person.
**Note:** Some programs may be licensed where devices are considered users. In that case, the following applies. Any computing device that requests the execution of or receives for execution a set of commands, procedures, or applications from the program or that is otherwise managed by the program is considered a separate user of the program and requires an entitlement as if that device were a person.

**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 Proof of Entitlement (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.

For IBM InfoSphere Streams and IBM InfoSphere Streams

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**Passport Advantage program licenses**

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### 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 V3.2.0

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### Terms and conditions

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

### Licensing

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

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 numbers**

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The 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, consult the IBM Software Support Handbook found at

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

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 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

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


Software Subscription and Support applies
Yes. Software Subscription and Support 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 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

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**IBM Electronic Services**

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. 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.

Now integrated into the base operating system of AIX® 5.3, AIX 6.1, and AIX 7.1, 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 can also 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, refer to [http://www.ibm.com/support/electronic](http://www.ibm.com/support/electronic)

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 Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

**Benefits**

**Increased uptime** The Electronic Service Agent 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 no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

**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 securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit...
from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer's business applications or business data is never transmitted to IBM.

**More accurate reporting**

Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers 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, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support Web site at

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

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 the customer's 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, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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**Prices**

**Passport Advantage**

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