IBM Streams V4.2.1 simplifies development and operations

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At a glance

IBM Streams V4.2.1, a leader in the stream processing marketplace, delivers new capabilities to simplify development and management:

- Translations into major European, South American, and Asian languages
- Ability to compile and deploy Python applications in the cloud

Overview

Streams V4.2.1 delivers new capabilities to simplify development and management:

- Translation of Streams Installation, Streams Console, and Streams Studio into French, German, Spanish, Italian, Russian, Brazilian Portuguese, Traditional Chinese, Simplified Chinese, Korean, and Japanese
- Ability to create Streams applications using Python with notebooks like Jupyter or with IBM Data Science Experience, then deploy to the cloud to compile and deploy to IBM Streaming Analytics for Bluemix. This new capability enables complete cloud development in Python, replacing the previous requirement to have Streams Developer Edition or Streams Quick Start Edition installed locally on the developer’s machine.

Key prerequisites

An x86 architecture (64 bit) or IBM POWER7 or IBM POWER8 architecture server with a minimum of 2 GB memory and a Linux operating system is required. Go to the Hardware requirements and Software requirements sections for details.

Planned availability date

May 12, 2017

Description

Streams offers an ultra-high performance analytics solution for real-time analytic processing (RTAP). RTAP extends online analytic processing (OLAP) by analyzing data-in-motion instead of data-at-rest. This enables higher-volume and lower-
latency analysis. Streams represents a new evolution in the business intelligence and complex event processing (CEP) markets. It is characterized by incredible throughput rates of disparate data types, including 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, Streams analyzes data in-motion, a faster process, because disk storage is not required. This can lead to ultra-low latencies as compared to existing technologies. Streams can manage 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 comes standard with several real-time analytic toolkits to help provide quicker time to value. These include telecommunications event data, time series, text, messaging, database, geospatial, and more. Many of these toolkits are part of the Streams Open Source Project. For more information, go to the IBM Streams Github website.

Streams serves the real-time analytics market. It can read in and process much higher discrete event throughput rates compared to other market offerings. Streams analyzes continuous streams of information such as audio feeds from hydrophones or video feeds from television. Furthermore, Streams can process unstructured data such as audio, video, text, and EKG/EEG waveforms.

Streams offers these unique benefits:

- Continuously analyze data-in-motion across real-time sources to deliver actionable insight.
- Immediately understand context in the business moment to dynamically adjust decisions and change course of action.
- Make real-time predictions and discoveries as data arrives to enhance and improve analytic models and cognitive systems.
- Deploy real-time analytics such as natural language processing, geospatial, predictive, and more to satisfy unique industry-specific requirements or use cases.
- Visualize data easily with drag-and-drop development tools to ensure rapid application deployment and ease for developers.
- Detect and respond to critical events faster compared to traditional techniques to stay ahead of the competition, analyzing millions of interactions or events per second.
- Choose cloud or on-premises deployment to manage costs and further speed deployment.

Streams is embedded in the following IBM offerings:

- IBM Now Factory Analytics V9.0
- IBM Customer Experience Analytics for CSP
- IBM Behavior Based Subscriber Insight for CSP
- IBM Trade Compliance Analytics for Financial Markets V1.0
- IBM Intelligent Operations Center V5.1.0.2
- IBM Industry Customer Intelligence Solutions V1.0.2
- IBM Interact Advanced Patterns V9.1.2
- IBM Operations Analytics - Predictive Insights V1.3.3
- IBM Sensemaking V1.2
Streams has connectors to the following offerings:

- On IBM Bluemix:
  - IBM BigInsights\(\textregistered\)
  - IBM DashDB
  - IBM Cloudant\(\textregistered\)
  - IBM DB2\(\textregistered\) on Cloud
  - Redis by Compose
  - MongoDB by Compose
  - Apache Spark
  - IBM DataWorks
  - Watson\textsuperscript{TM} Internet of Things Platform
  - Message Hub
  - MQ Light
  - Secure Gateway
  - Predictive Analytics

- IBM on-premises offerings:
  - IBM DB2
  - IBM Informix\(\textregistered\)
  - IBM Netezza\(\textregistered\)
  - IBM PureData\(\textregistered\) System for Analytics
  - IBM Cognos\(\textregistered\) Analytics
  - IBM SPSS\(\textregistered\)
  - IBM BigInsights
  - IBM DataStage\(\textregistered\)
  - IBM Data Replication
  - IBM MQ
  - IBM Integration Bus
  - IBM Operational Decision Manager

Reference information

- Software Announcement 216-490, dated October 4, 2016 (IBM Streams V4.2 software requirements)
- Software Announcement 216-533, dated November 29, 2016 (IBM Streaming Analytics for Bluemix)

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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\(\textregistered\) ID and password are required (use IBMid).

BP Attachment for Announcement Letter 217-194

Education support
Not applicable

**Offering Information**

Product information is available on the [IBM Offering Information](https://www.ibm.com) website.

More information is also available on the [Passport Advantage®](https://www.ibm.com) and [Passport Advantage Express®](https://www.ibm.com) website.

**Publications**

None

**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, contact your Lab Services Sales or Delivery Leader.

**Technical information**

**Specified operating environment**

**Hardware requirements**

- x86 architecture (64 bit) or IBM POWER7 or POWER8 architecture server with a minimum of 2 GB memory to run simple applications, such as the Commodity Purchasing Sample Application that is included with Streams.

**Software requirements**

For IBM Streams runtime, one of the following operating systems:

- Red Hat Enterprise Linux (RHEL) 6.x or 7.x for 64-bit x86 architecture hardware.
- RHEL 6.x or 7.x for 64-bit POWER7 or POWER8 architecture hardware.
- CentOS Linux 6.x or 7.x for 64-bit x86 architecture hardware.
- SUSE Linux Enterprise Server (SLES) 11.2, or later, for 64-bit x86 architecture hardware. SLES does not support Security-Enhanced Linux (SELinux).

One of the following browsers:

- Mozilla Firefox Extended Support Release (ESR) version 38u, or later
- Microsoft™ Internet Explorer 11, or later
- Google Chrome version 40, or later

One of the following Java™ SDKs:
• IBM SDK Java Technology Edition V8 for x86 or POWER7/POWER8 architecture hardware
• Oracle Java SE V7.0 SDK for x86 architecture hardware

For IBM Streams Studio, one of the following software is supported:

• RHEL 6.x or 7.x for 64-bit x86 architecture hardware.
• RHEL 6.x or 7.x for 64-bit POWER7 or POWER8 architecture hardware.
• CentOS Linux 6.x or 7.x for 64-bit x86 architecture hardware.
• SLES 11.2, or later, for 64-bit x86 architecture hardware. SLES does not support SELinux.
• Microsoft Windows™ 7 for 64-bit x86 architecture.

One of the following Java SDKs:

• IBM SDK Java Technology Edition V8 for x86 or POWER7/POWER8 architecture hardware
• Oracle Java SE V7.0 SDK for x86 architecture hardware

One of the following browsers enabled for Flash is required to see Streams Studio videos:

• Mozilla Firefox Extended Support Release (ESR) version 38u, or later
• Microsoft Internet Explorer 11, or later
• Google Chrome version 40, or later

The following software is required:

• Eclipse Platform SDK V4.5.2
• GTK+, either GTK+ 2.18.0 and its dependencies, or GTK+ 3.0.0 and its dependencies

For IBM Streams for Excel feature, the following software is required:

• Microsoft Excel 2013 or 2010

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.

**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 Electronic Support website.

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

**Planning information**

**Customer responsibilities**

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

Note: Streams uses the security and auditability features of the Linux operating system and, optionally, may use Security Environment Linux (SE Linux).

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

Streams uses the security and auditability features of the Linux operating system and, optionally, may use SELinux.

Security and auditability features of Streams are:

- Pluggable authentication
- Public key infrastructure (PKI) authentication

Some of the security functions of 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.

Ordering information

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

These products may only be sold directly by IBM or by authorized IBM Business Partners for Channel Value Rewards.

More information can be found on the IBM Channel Value Rewards website.

To locate IBM Business Partners for Channel Value Rewards in your geography for a specific Channel Value Rewards portfolio, go to the Find a Business Partner page.

- Product group: IBM Streams
- Product: IBM Streams (5724-Y95)
- Product category: IBM Streams

Passport Advantage

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**Passport Advantage customer: Media pack entitlement details**

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**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 given access to the program in any manner directly or indirectly (for example, through 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 a unit of measure by which the program can be licensed. **RVU** Proofs of Entitlement (POEs) are based on the number of units of a specific resource used or managed by the program. Licensee must obtain sufficient entitlements for the number of RVUs required for licensee's environment for the specific resources as specified in the program specific table. **RVU** entitlements are specific to the program and the type of resource and may not be exchanged, interchanged, or aggregated with **RVU** entitlements of another program or resource. Go to the program specific RVU table.

**Notes:**

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

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).

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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 Subscription and Support (also referred to as Software Maintenance) is in effect.

This technical support allows you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the
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For additional information on the IBM Software Support Lifecycle Policy, see the IBM Software Support Lifecycle Policy website.

Program support

Subscription and Support includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

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 (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) 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)

No

Passport Advantage applies

Yes, information is available on the Passport Advantage and Passport Advantage Express website.

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.

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Unless specified otherwise in a written agreement with you, IBM does not provide support for third-party products that were not provided by IBM. Ensure that when contacting IBM for covered support, you follow problem determination and other instructions that IBM provides, including in the IBM Software Support Handbook.

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.

**System i Software Maintenance applies**

No

**Variable charges apply**

No

**Educational allowance available**

Not applicable.

**Statement of good security practices**

IT system security involves protecting systems and information through intrusion 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 regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

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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™ 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 IBM Electronic Service Agent 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 IBMid 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 IBMid. 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 Electronic Support website.

Prices

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

**Business Partner information**

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBMid and password are required to access the IBM Passport Advantage website.

**Passport Advantage**
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